

ELECTRONIC CASH REGISTER



INSTRUCTION MANUAL



The above illustration shows the model ER-A520.

WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

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

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION

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

FOR YOUR RECORDS

Please record below the model number and serial number, for easy reference, in case of loss or theft. These numbers are located on the right side of the unit. Space is provided for further pertinent data.

Model Number_

Serial Number __

Date of Purchase_

Place of Purchase ____

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A520/A530. 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 (120V ±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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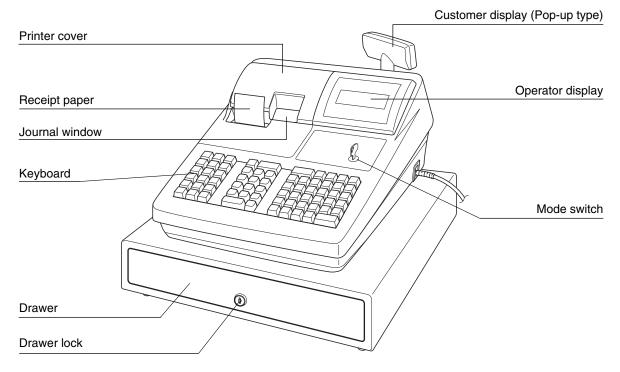
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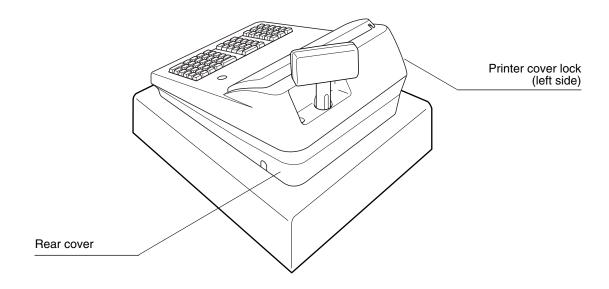
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EXTERNAL VIEW OF THE ER-A520

Front view

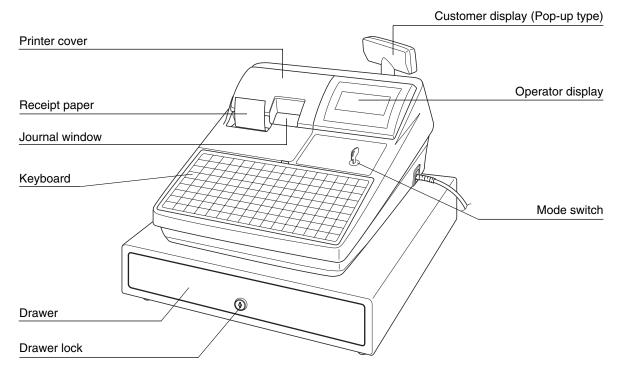


Rear view

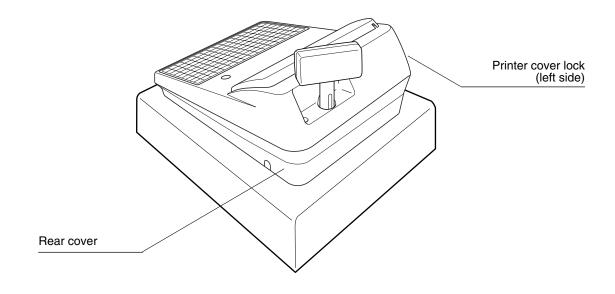


EXTERNAL VIEW OF THE ER-A530

Front view



Rear view



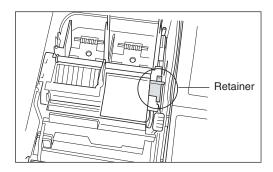
PRINTER

The printer is a receipt/journal dual station type thermal printer which delivers fast, quiet and high quality printing. The average life of the printer is approximately 5 million lines.

When opening the printer cover, unlock the printer cover using the printer cover lock key, and lift up the cover as shown in the diagram to the right.

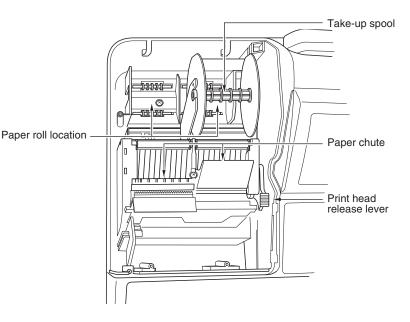
Printer cover Printer lock key

Your register is shipped with the print head release lever held in the up position by a white shipping 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-A520 standard keyboard layout

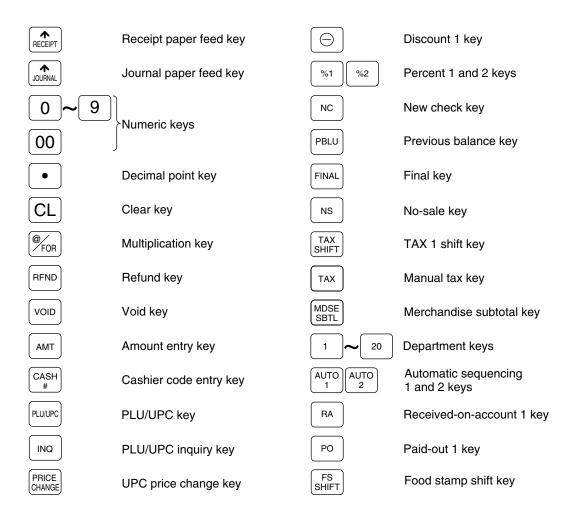


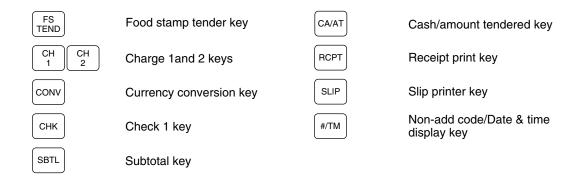
CASH #	PLU/UPC								
@/FOR	•	CL							
7	8	9							
4	5	6							
1	2	3							
0)	00							

PR	ICE NGE	AMT	INQ	FS SHIFT	AUTO 1	
5	10	15	20	FS TEND	AUTO 2	
4	9	14	19	NS	CH1	
3	8	13	18	CHK	CH2	
2	7	12	17	MDSE SBTL	SBTL	
1	6	11	16	CA/AT		

Note

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

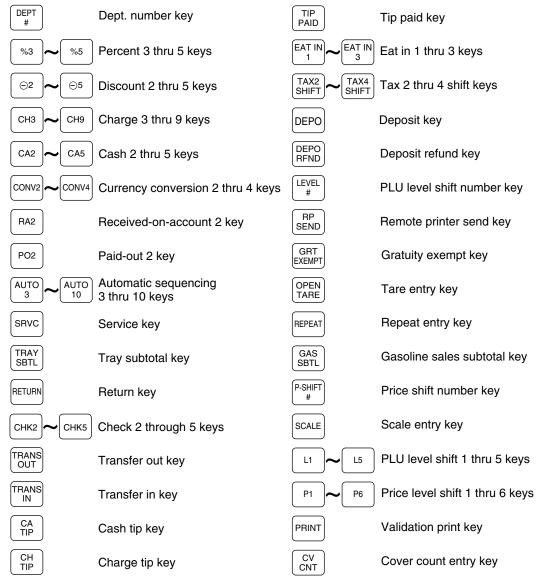




Note

The following function keys can optionally be mounted in place of those shown in the figure of the standard keyboard layout. For details, please consult your authorized SHARP dealer.

Optional keys



NO DEL	No delete key	C NEXT	Condiment next key
BS	Bill separation key	CANCEL	Condiment cancel key
ВТ	Bill totalize/Bill transfer key (CHECK-ADD)	EDIT TIP	Edit tip key
BIRTH	Birthday entry key	GLU RECALL	Table# recall key
RFND SALES	Refund sales key	000	Numeric key
WASTE	Waste mode key		

Note

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

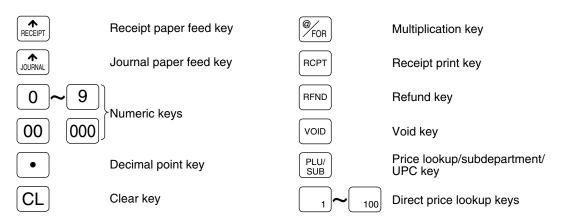
2 ER-A530 standard keyboard layout

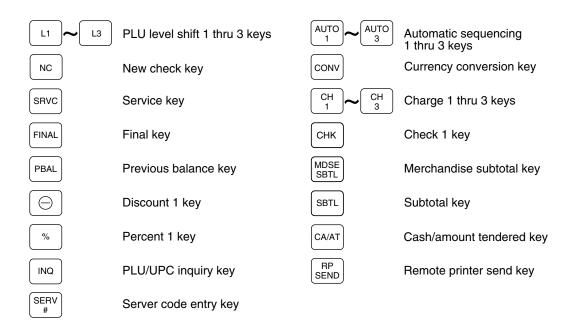
RECEIPT	JOURNAL	91	92	93	94	95	96	97	98	99	100	L1	L2	L3	AUTO 1
79	80	81	82	83	84	85	86	87	88	89	90	RCPT	%	Θ	AUTO 2
67	68	69	70	71	72	73	74	75	76	77	78	VOID	INQ	RP SEND	AUTO 3
56	57	58	59	60	61	62	63	64	65	66	SERV #	RFND	PLU/ SUB	NC	CONV
45	46	47	48	49	50	51	52	53	54	55	FOR		CL	PBAL	CH1
34	35	36	37	38	39	40	41	42	43	44	7	8	9	SRVC	CH2
23	24	25	26	27	28	29	30	31	32	33	4	5	6	FINAL	СНЗ
12	13	14	15	16	17	18	19	20	21	22	1	2	3	MDSE SBTL	Снк
	2	3	4	5	6	7	8	9	10	11	0	00	000	SBTL	CA/AT

Note

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

• Please note that the price lookup/subdepartment/UPC key (Full) and the previous balance key (FBAL) are shown as Full and FBLU respectively in this manual.

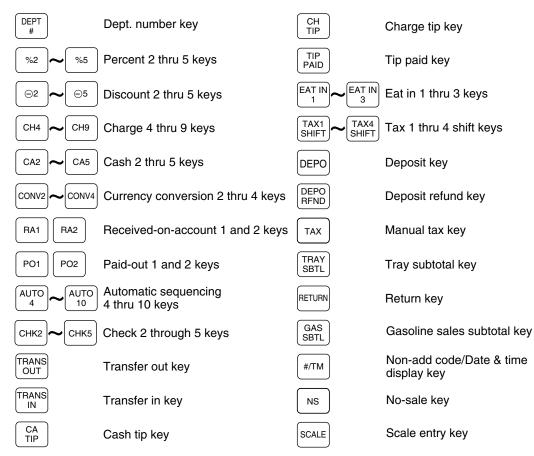


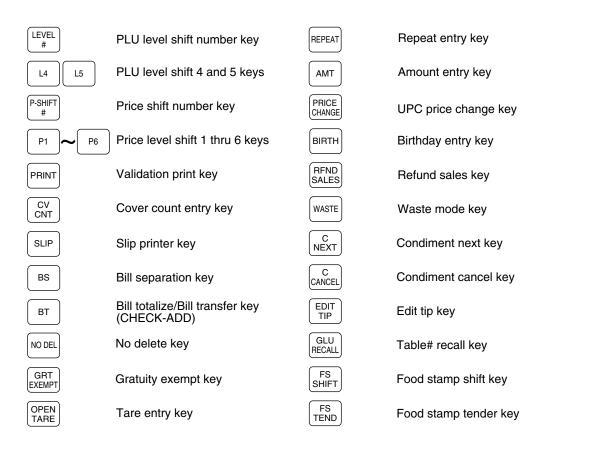


The following function keys can optionally be added in place of those shown in the figure of the standard keyboard layout. For details, please consult your authorized SHARP dealer.

Optional keys

Note



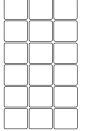


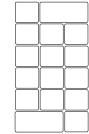
Note Department and direct PLU keys can be expanded. If you require expansion of the department or direct PLU keys, please contact your authorized SHARP dealer.

Standard key number layout

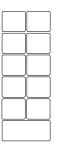
These key numbers are used for positioning of department keys and direct PLU keys. For further details with positioning departments and PLU keys, please refer to pages 109 and 130. This layout can be changed by your dealer.

For ER-A520





005	010	015	020
004	009	014	019
003	008	013	018
002	007	012	017
001	006	011	016

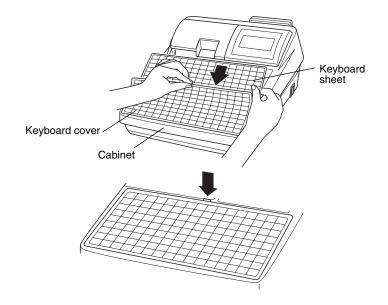


For ER-A530

		111	112	113	114	115	116	117	118	119	120		
099	100	101	102	103	104	105	106	107	108	109	110		
087	088	089	090	091	092	093	094	095	096	097	098		
076	077	078	079	080	081	082	083	084	085	086			
065	066	067	068	069	070	071	072	073	074	075			
054	055	056	057	058	059	060	061	062	063	064			
043	044	045	046	047	048	049	050	051	052	053			
032	033	034	035	036	037	038	039	040	041	042			
021	022	023	024	025	026	027	028	029	030	031			

4 Installing the keyboard sheet (ER-A530)

Insert the keyboard sheet between the keyboard cover and the cabinet as illustrated below. Then press the claws at the top of the keyboard cover into the slots in the cabinet.

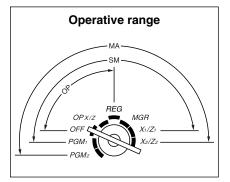


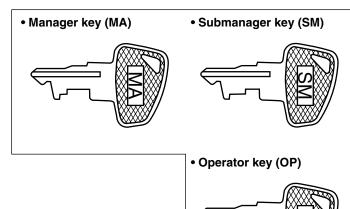
- Note
- Do not spread the keyboard cover too far to avoid tearing the tabs.
- Replace the keyboard sheet with a new one if by chance it gets wet. Use of a wet keyboard sheet may cause problems.
- Be sure to use only SHARP-supplied keyboard sheets. Thick or hard sheets can make key operations difficult.
- 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, please contact your authorized SHARP dealer.

KEYS AND SWITCHES

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.





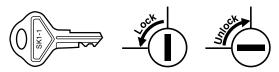
The mode switch has these settings:

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 RPT 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.

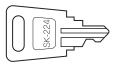
2 Drawer lock key

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



3 Printer cover lock key

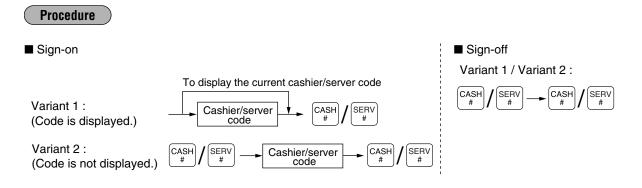
This key locks and unlocks the printer cover. To lock it, turn 90 degrees counterclockwise. To unlock, turn 90 degrees clockwise.



Cashier/Server code entry key

The ER-A520 provides a cashier system and the ER-A530 provides a server system. The cashier/server codes are available in two variants: Variant 1, the codes are displayed ("0000" to "9999"), and Variant 2, the codes are not displayed (always "****").

When the cashier/server code is assigned by Variant 2 (codes not displayed), the register prints ******** as the cashier/server code and the cashier/server name are printed both on the receipt and journal for every transaction.



Note All settings depend on how the register has been programmed. For the available selection of these settings, please consult your authorized SHARP dealer.

5 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 form key in 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.

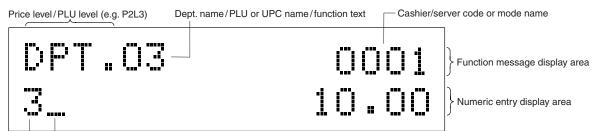


Your register will print reports regardless of the receipt status. This means that the receipt roll must be installed even when the receipt state is "OFF" when taking reports.

DISPLAYS

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/server code or mode name

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

Repeat

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

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

• Function message display area

Item labels of departments and PLU/subdepartments/UPC and function text you use, such as %1, (–) and CASH are displayed here. For the details of function texts, please refer to pages 146 to 149. When an amount is to be entered or entered, "AMOUNT" is displayed: When an amount is to be entered, ----- is displayed in the numeric entry display area with "AMOUNT". When a preset price has been set, the price is displayed in the numeric entry display area with "AMOUNT".

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 $\frac{\#}{TM}$ 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 223.

Customer display (Pop-up type)



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 form key in 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.



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/Server assignment

The ER-A520 requires a cashier to be assigned prior to operational item entries. The ER-A530 enforces that a server must enter their code into the register. Depending on register settings, it is possible to keep the same cashier/server code assigned when the same cashier/server is to be used for all transactions within a set period. As previously mentioned, there are two variants to consider for the display and print of the cashier/server codes.

Logo message or graphic logo (varies depending on programming.)	YOUR RECEIPT THANK YOU	
	O8/26/2004 123456 #1006 2:40PM 1111 DPT. O1 \$15.00	Cashier/Server code ("****" is printed in Variant 2.) Cashier/Server name
	***TOTAL \$15.00 Cash \$20.00 Change \$5.00	

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	■ Sign-off Variant 1 / Variant 2 :
Variant 1 : (Code is displayed.)	$ \begin{array}{c} \text{CASH} \\ \# \end{array} / \begin{array}{c} \text{SERV} \\ \# \end{array} \rightarrow \begin{array}{c} \text{CASH} \\ \# \end{array} / \begin{array}{c} \text{SERV} \\ \# \end{array} $
Variant 2 : (Code is not displayed.) $(ASH \# / SERV # Cashier/server code / CASH / SERV # Cashier/server code / CASH / SERV # Cashier/server code / CASH / SERV # Cashier/server / SERV / $	
Note • If you want to enter a cashier/server code before every transaction SHARP dealer. • For the display type selection of the cashier/server code, "Variant	

- For the display type selection of the cashier/server code, "Variant 1" has been preset. For the selection of the "Variant 2", consult your authorized SHARP dealer.
- The cashier/server can be changed during a transaction. Please consult your authorized SHARP dealer.

Power save mode

The register will enter into the power save 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, the operator and customer displays will turn off. This is 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 the initial key entry is ignored. After the recovery, you may start the key entries from the beginning.

3 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 223.

- 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 CAAT, CA2 thru CA5, CHK, CHC2 thru CHS , or CH1 thru CH9 key to finalize the transaction.

ENTRIES

Note

The example entries provided within this manual describe the function key labeled [H] which is used for the model ER-A520. For the model ER-A530, please substitute the [H] key with the function key.

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.

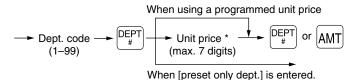
When using a programmed unit price

→ Unit price * → Department key (max. 7 digits) *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)

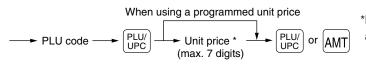
Enter a PLU code and press the FLU key.

→ PLU code → PLU/ UPC

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



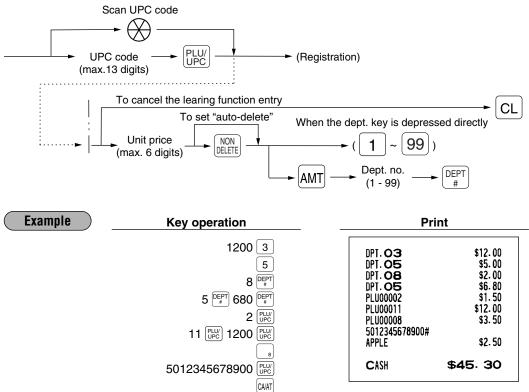
*Less than the programmed upper limit amounts

PLU entries (direct PLU entries)

When using a programmed unit price

↓ Unit price * ↓ Direct PLU key (for subdept.)

UPC entries



Repeat entries

You can use this function for entering a sale of two or more same items. You can use the EFFAI key to repeat entry instead of department, [AMT], direct PLU or [EFFAI key.

Example Key operation 200 8 Repeated department 8 entry (direct) 8 Repeated 5 [DEPT] 680 [DEPT] # department entry DEPT (indirect) 10 PLU/ UPC **Repeated PLU** entry PLU/ UPC (indirect) PLU/ UPC **Repeated PLU** 51 entry (direct) 51 60 PLU/ UPC Repeated subdepartment 500 PLU/ UPC entry PLU/ UPC Repeated UPC 5012345678900 PLU/ entry PLU/ UPC Repeated 600 2 department entry REPEAT (direct) using the repeat key REPEAT CA/AT

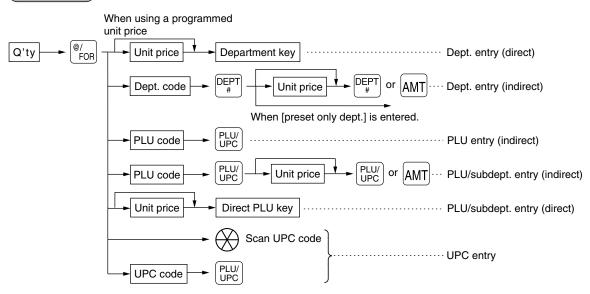
Pri	nt
DPT. OB	\$2,00
DPT.08	\$2.00
DPT. 08	\$2.00
DPT. 05	\$6.80
DPT. 05	\$6.80
PLU00010	\$7.15
PLU00010	\$7.15
PLU00010	\$7.15
PLU00051	\$2.85
PLU00051	\$2.85
PLU00060	\$5.00
PLU00060	\$5.00
5012345678900#	#2 E0
APPLE	\$2.50
5012345678900# APPLE	\$2,50
DPI.02	\$6.00
DPI.02	\$6.00
DPT.02	\$6.00
	40.00
CASH	\$79. 75
L	

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.





- After scanning a UPC code or pressing the PLW 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 PEPT key.
- 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)	7 • 500 ^{@/} FOR	7.500 @ \$1.	
	chily (direct)	165 8	DPT. OB \$12 2 @ \$2	2.38
	Department entry	2 ^{(®} / _{FOR} 5 ^{(DEPT}		5.00
	(indirect)	250 ^{##}		1.50
	PLU entry	15 ^{@/} _{FOR}	PLU00058 \$20	4.75
	(indirect)	. 13 (PLU/ UPC)	3 @ \$1.	
	PLU entry	8 • 250 ^{@/}	5@\$2	3.00 .50
	(direct)	3 (^{®/} FOR	5012345678900# APPLE \$17	2.50
	Subdepartment	60 (PLU/ UPC)	CASH \$89.	13
	entry			
		5 ^{@/} FOR		
	UPC entry	5012345678900 PLW		

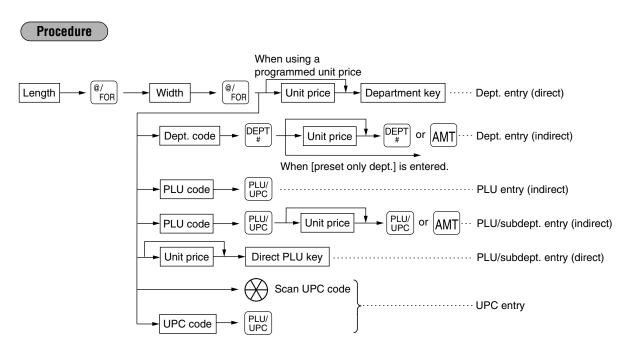
Note

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

(CA/AT)

Successive multiplication entries

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



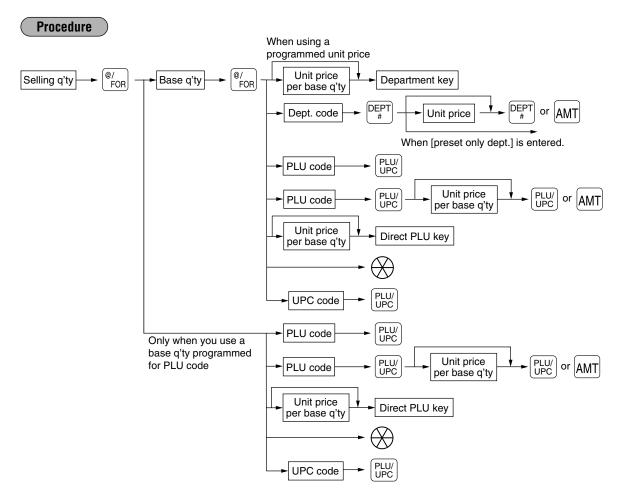
- After scanning a UPC code or pressing the PLW key, when the item does not exist in the file, the display will show "NO RECORD". Enter the unit price using the AMT key and department no. with the PET key.
- Length or width: Up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: Less than 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 Ke	ey operation	Print
Department entry < PLU entry {	$ \begin{array}{c} 3 \\ & 4 \\ & 4 \\ & 400 \\ & 5 \\ 1 \\ & 500 \\ & 6 \\ & 2 \\ & 500 \\ & 6 \\ & 8 \\ & 9 \\ & 9 \\ & 8 \\ & 9 \\ & 9 \\ & 8 \\ & 9 \\ $	3 @ 4 @ \$4.00 DPT.O5 \$48.00 1.500 @ 2.500 @ \$3.00 PLU00008 \$11.25 1.750 @ 1.750 @ \$6.00 PLU00006 \$18.38 4 @ 5 @ \$5.00 5099887654302#
Subdepartment entry	1 • 750 ^(H) 1 • 750 ^(H) 6 ^(H) 600 ^(H)	CLOTH \$100.00 CASH \$177.63
UPC entry	(4 ^{€/} _{FOR} 5 ^{€/} _{FOR} 5099887654302 ^{€/µ} _{PPC} _{CMAT}	

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* 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 *wey* key.
- Selling quantity: Up to four digits integer + three digits decimal
- Base quantity: Up to two digits (integer)

Example		Key operation	Pri	nt
	Department entry	{ 7 ®/ FOR 10 ®/ FOR 600 7	DPT. 07 PLU00035	7 @ 10/ \$6.00 \$4.20 8 @ 5/ \$3.00 \$4.80
	PLU entry	8 % ror 5 % ror 35 % ror	5045678912304# CUP_A CASH	5 @ 6/ \$2.50 \$2.09 \$511.09
	UPC entry	5 %/oR 6 %/oR 5045678912304 %	Chái	
		CA/AT		

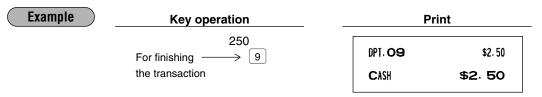
You must use the decimal point (ullet ullet) key when entering selling quantities that are fractional.

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, AMT key, where key, the direct PLU key or scanning a UPC code.



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

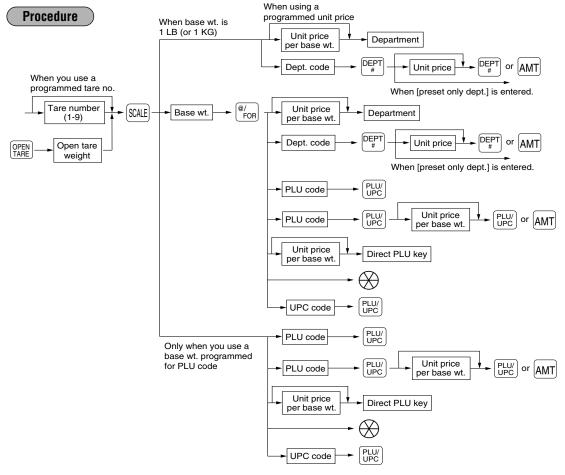
- If an entry to a department, PLU/subdepartment or UPC set for SIF follows entries to departments,
- PLUs/subdepartments or UPC not set for SIF, the transaction is finalized immediately as a cash sale.
- Like the SICS function, this function is available for single-item cash settlement.

Example	Key operation	P	rint
	$\begin{array}{c} 1745 \ \hline 8 \\ 1500 \\ For finishing \longrightarrow 9 \\ \text{the transaction} \end{array}$	DPT. 08 DPT. 09 CASH	\$17.45 \$15.00 \$32. 45

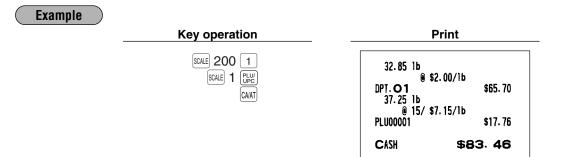
Scale entries

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

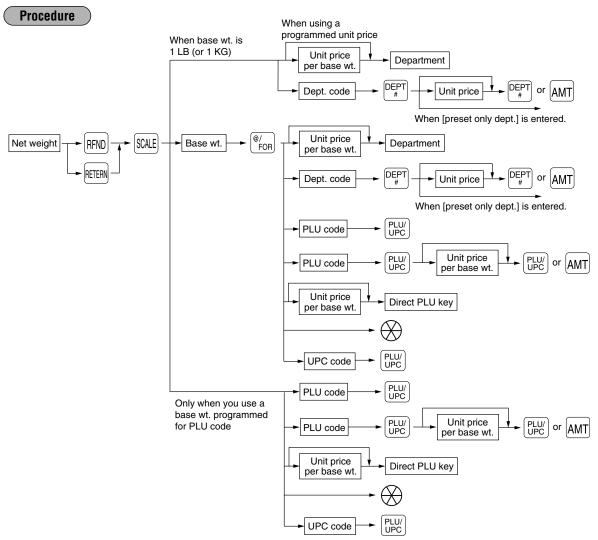
i) Auto scale entries



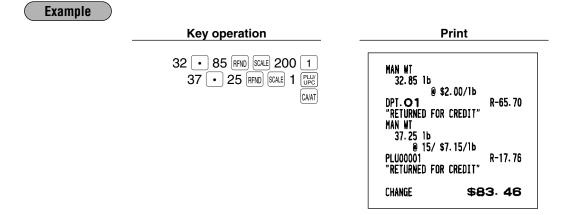
- Open tare weight: Up to 5 digits (integer + decimal)
- Net weight: Up to 5 digits (integer + decimal)
- Base weight: Up to 2 digits (integer)
 - **Note** The register can be programmed with up to nine tare tables and allows different tares to be assigned to them.
 - When the scale key is pressed, the 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 set key.



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)



PLU level shift (for direct PLU)

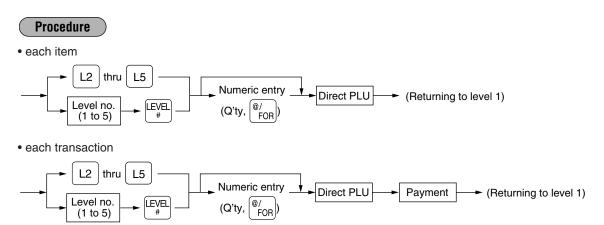
This shift function can allow access to PLUs on your register without adding additional direct PLU keys. You can use direct PLUs in five levels by utilizing PLU level shift keys [L1] thru [L5]. The level shift key shifts the PLU level from the other four to the required level. (The normal level is level 1.) You can also shift PLU level by entering a level number and pressing the PLU level shift number key, $[\underline{LT}]$.

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 (for PLU levels)

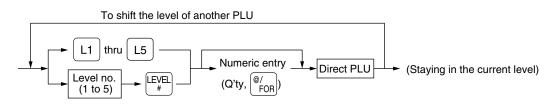
If you shift the PLU level while in the automatic return mode, press the desired PLU level shift key before numeric entries.



Lock shift mode (for PLU levels)

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

Procedure



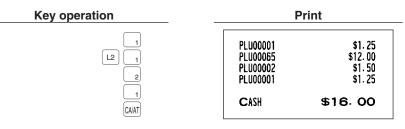


If you select the automatic return mode, it is not necessary to use the L1 key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.



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:



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

_

Key operation	I	Print		
	PLU00001 PLU00065 PLU00066 PLU00065	\$1.25 \$12.00 \$30.00 \$12.00		
L I GAAT	CASH	\$55.25		

PLU/UPC price level shift

Six different price level shifts can be programmed for each PLU or UPC.

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

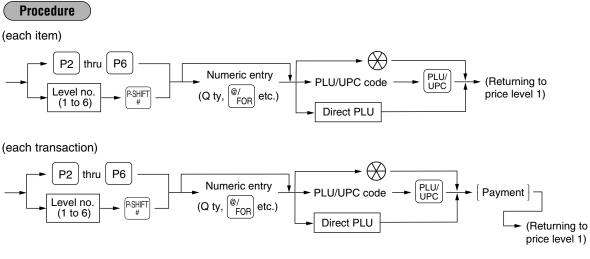
You can change a PLU/UPC price among six prices by utilizing the price level shift keys P1 thru P6, the level shift key shifts the price level from the other five to the required level. (The normal level is level 1.) You can also a shift price level by entering level number and pressing the price level shift number key, P1.

You must program the 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 levels)

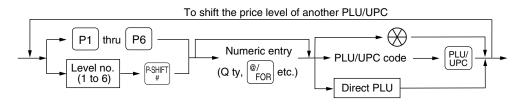
If your register has been programmed for the price level shift in the automatic return mode, press a desired price level shift key before a numeric type entry.



Lock shift mode (for price levels)

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

Procedure



Note

- If you select the automatic return mode, it is not necessary to use the P1 key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.
- You can program "printing of the price level text. 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	P	rint
1 (UV) P2 1 (UV) 2 (UV) CAAT	LEVEL 1 PLU00001 LEVEL 2 PLU00001 LEVEL 1 PLU00002	\$1.91 \$2.00 \$0.79
	CASH	\$4. 70

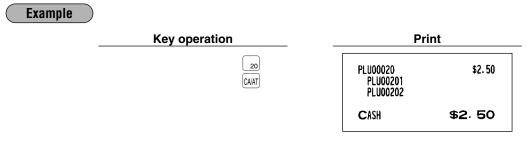
• When your register has been programmed for the lock shift mode:

Print	_
LEVEL 1 PLU00001 \$1.91 LEVEL 2 PLU00001 \$2.00 LEVEL 2 PLU00002 \$0.99	
CASH \$4.90	
	LEVEL 1 PLU00001 \$1.91 LEVEL 2 PLU00001 \$2.00 LEVEL 2 PLU00002 \$0.99

Set PLU entries

Operations are the same as normal PLU's.

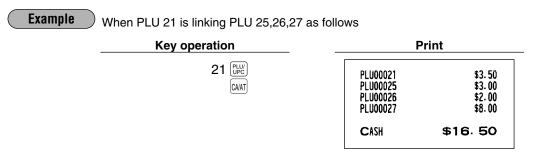
When a set PLU is entered, an entered or preset amount is printed as the unit price and then those PLUs linked to the set PLU are printed automatically.



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

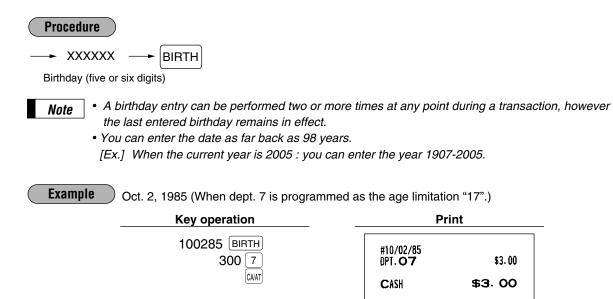
The operation is the same as normal PLU's/UPC's. When this PLU/UPC is entered, the linked PLU's amount is included and the linked PLU's label is printed automatically. Only the 1st PLU is affected by the status shift keys $(\underline{x_{\text{MFT}}}, \underline{x_{\text{MFT}}}, \underline{x_{M$



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.



When birthday printing is allowed, through programming (Job no. 2616), the birthday date is printed.

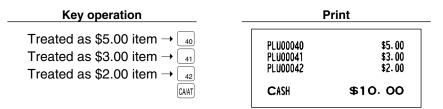
Mix-and-match entries

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)



Condiment entries (for PLUs)

Your register may be programmed for prompting condiment and preparatory instructions for a menu-item PLU. **Example:**

When you enter a menu-item PLU, a prompting message such as "HOWCOOK?" will appear. You must specify a PLU such as "RARE" to meet a special order of the guest.

In an example of the condiment table show below, it is assumed the condiment table #1 and #4 is assigned to PLU 210 (item label: STEAK/unit price: \$13:00).

When you enter PLU 210, the message "HOWCOOK?" will appear. You are allowed to enter one of the PLU code, 221, 222 and 223. When you enter PLU 221, "RARE" is registered and the next message "POTATO?" will appear. When you enter PLU 226, "P.CHIPS" is registered. Then press the the press the the set of the entry.

1 220 (HOWCOOK?) 221 (RARE 0.00) (MED.RARE 0.00) (WELLDONE 0.00)	able no.
	4
4 (POTATO?) (P. CHIPS 0.60) (MASHED.P 0.60) (BAKED.P 0.50)	

Menu-item PLUs Message text (PLU210 is linked to table #1)

Condiment PLUs (preset price entry is allowed.)

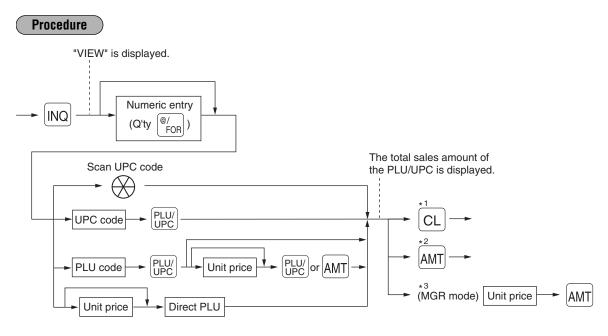
Example	Key operation	
	"HOWCOOK?" appears	210 PLU/
	"POTATO?" appears>	221 PLU/
		226 UPC CAVAT

P	rint
STEAK RARE	\$13.00
P. CHIPS	\$0.60
CASH	\$13.60
CASH	\$13, 60

- Note
- Your register will continue to prompt for the condiment entry until you finish the entire condiment entry programmed for the PLU. During the condiment entry, if you enter a normal PLU, which is not in the condiment table, an error message will appear in case the condiment entry is compulsory.
- When the $\begin{bmatrix} c \\ NEXT \end{bmatrix}$ key is pressed, the entry skips to the next table which is programmed.
- When the key is pressed, its condiment entry is canceled in the programmed mode (REG/MGR or MGR).
- When you enter a PLU priced at "0.00," only the text will be printed on the receipt.
- No refund entry is possible for any condiment entries. When you perform a refund entry with a menu-item PLU and the condiment PLUs assigned to the menu-item PLU are automatically registered as a refund entry.
- You may omit the compulsory condiment entry by pressing the key.

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

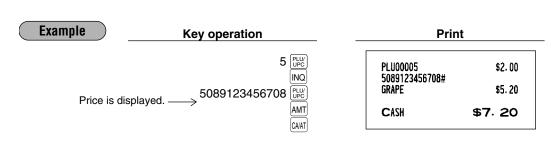
You can use this function when you want to know the unit price of the PLU/UPC item during sales transactions while in the REG/MGR mode.



*1: Press the CL key to cancel the inquiring (view) mode.

For the repeat entry, use the REPEAT key.

- *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).



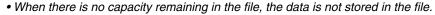
Note

UPC learning function

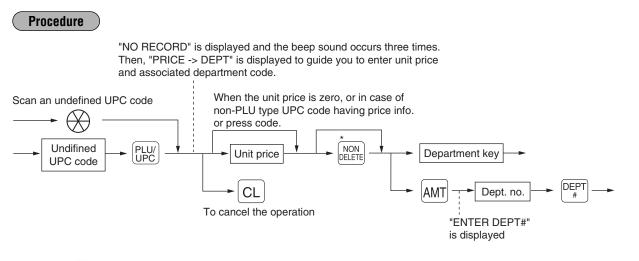
Note

Note

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 dynamic UPC file (if opened, and if not opened, in the PLU/UPC file) and is used for future sales entries.



- 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.



* 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).

 Example
 Key operation
 Print

 "NO RECORD", "PRICE ->
 5056789123404 [PRODECT"]
 5056789123404#
 5056789123404#

 DEPT" are displayed.
 750
 5
 6

 CASH
 \$7.50
 5

For the repeat entry, use the REPEAT key.

Price change function (for PLU/UPCs)

You can use this function when you need to change the unit price or associated department of a PLU/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 PLU/UPC item without entering PGM mode.

2. Changing a price during a transaction

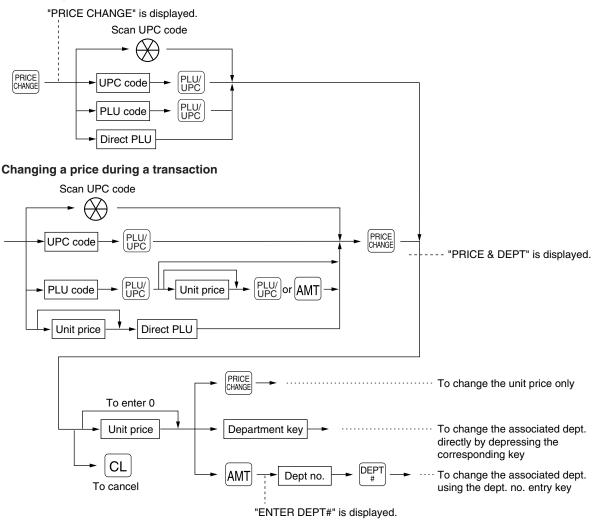
When a wrong PLU/UPC price and/or associated department is found during transaction, you can correct them at the time of the transaction. With the entry of a new price and/or associated department, the preset price and/or associated department is automatically changed to the new price and/or associated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

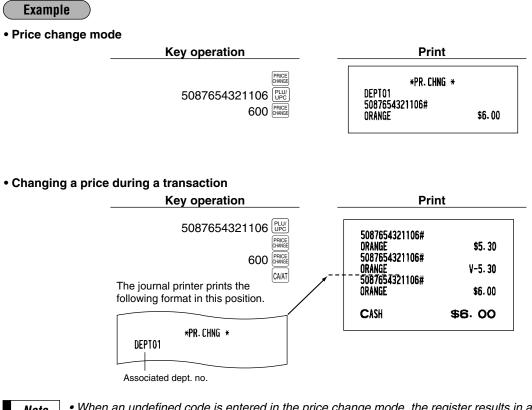
Note

For the Non-PLU type price embedded UPC-A 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





Note

- When an undefined code is entered in the price change mode, the register results in an error. • When you press the Exce key during a transaction, the UPC entry is voided upon the 1st depression of the *meeting* key, then you are allowed to enter a correct price and/or associated department.
- In case the item label of the UPC is the same as the associated department, the item label is changed to the item label of the new associated department when the associated department is changed.
- For the repeat entry, use the REPEAT key.

2 Displaying and printing subtotals

Your register provides these five types of subtotals:

Merchandise subtotal

Press the will appear in the display.

Taxable subtotal

Taxable 1 subtotal

Press the [M] = 1 ([M] = 1) and [M] = 1 keys in this order at any point during a transaction. The sale subtotal of taxable 1 items will appear in the display.

Taxable 2 subtotal

Press the $\frac{TAY2}{SHF}$ and $\frac{T}{SHF}$ 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 *state* and *state* keys in this order at any point during a transaction. The sale subtotal of taxable 3 items will appear in the display.

Taxable 4 subtotal

Press the *state* and *state* keys in this order at any point during a transaction. The sale subtotal of taxable 4 items will appear in the display.

Including-tax subtotal (full subtotal)

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

Food stamp-eligible subtotal

Press the $\frac{FS}{TEND}$ 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.

Eat-in subtotal

You may press an eat-in key prior to entering a payment. Your register will calculate a subtotal according to the programmed tax exemption status and display the subtotal, the symbol "EAT IN," and a corresponding caption ("EAT IN 1," "EAT IN 2," or "EAT IN 3").

For the transaction with the eat-in subtotal, you must finalize the transaction by making a payment entry. Just after pressing the eat-in key, however, you can cancel the entry of that key by pressing the CL key or another eat-in function key.

Gasoline discount subtotal

Use the following procedure to get a gasoline discount subtotal; amount after gas discount amount is deducted. The gasoline discount subtotal will appear in the display.

CA5 : 5

Снк5 : 10

Сн5]:15

сн6:16

СН7:17

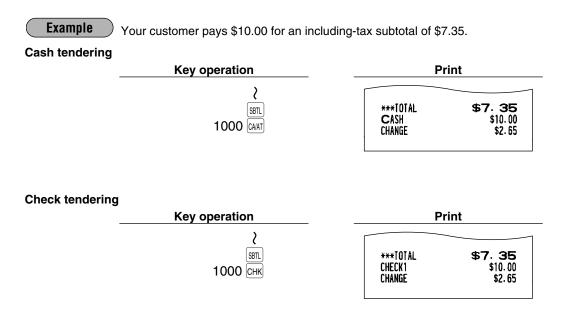
Сн8 : 18

Сн9:19

3 Finalization of transaction

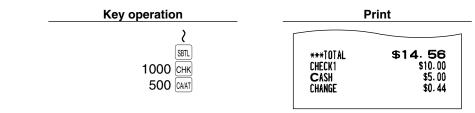
Cash or Check tendering

Press the SET key to get an including-tax subtotal, enter the amount tendered by your customer, then press the CHAT or one of the CA2 thru CA5 keys if it is a cash tender or press the CHK or one of the CHK2 thru CHKS 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.



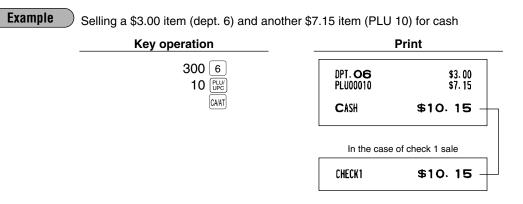
Mixed tendering (check + cash)

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 (CHAR) or one of the (CA2) thru (CA5) keys if it is a cash sale or press the (CHK) or one of the (CHK2) thru (CHK2) keys if it is a check sale. Your register will display the total sale amount.



Charge (credit) sale

Enter items and press the corresponding charge keys (CH1 thru CH9).

Example

Selling a \$25.00 item (dept. 5) and a \$32.50 item (dept. 6) and accepting the payment by charge 1 account

Key operation		Print
2500 5 3250 6	DPT. 05 DPT. 06	\$25.00 \$32.50
CH1	CHARGE1	\$57. 50

Amount tendering operations (i.e., change calculations) can be achieved by the CH1 thru CH9 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 1 for an including-tax subtotal of \$49.50.



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 $\frac{FS}{TEND}$ key and make a food stamp tender entry before entering a cash or check tender.

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:

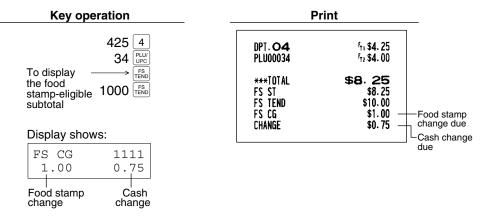
Your register shows two change due amounts in its display.

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 enter 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.

Key oper	ation	P	rint	
	248 5 542 8	DPT. 05 DPT. 08	^r ⊓ \$2. 48 \$5. 42	
	500 TEND 500 CAIAT	***TOTAL FS ST FS TEND FS CG Cash Change	\$5.00 ch \$0.10 —	ood stamp ange due
FS CG 2.00 Food stamp change	1111 0.10 Cash change		LC2	ash change ie

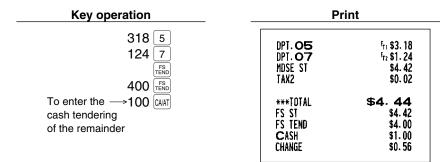
Note

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.



Food stamp status shift

Your machine allows you to shift the programmed food-stamp status of each department, PLU/UPC or \bigcirc thru \bigcirc , percent key by pressing the \bigcirc 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	P	rint
232 FS	DPT. O2	\$2.32
86 FS	PLU00086	\$3.18
FS	FS ST	\$5.50
FS	FS ST	\$3.18
FS	FS TEND	\$4.00
400 FS	FS CG	\$0.00
FS	CASH	\$2.00
200 CAAT	CHANGE	\$0.50

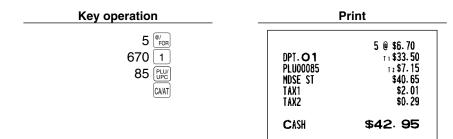
5 Tax calculations

Automatic tax

When your register is programmed with a tax table (or tax rate) and the tax status of an individual department and PLU/UPC 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/UPC.

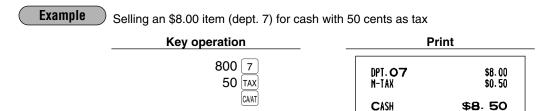


Selling five \$6.70 items (dept. 1, taxable 1) and one \$7.15 item (PLU 85, taxable 2) for cash



Manual tax

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



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 T_{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	DPT. O1 1; \$7.25 DPT. O3 7; \$5.15 TAX1 ST \$0.00 TAX2 ST \$0.00
TAX2 SHIFT SBL	CASH \$12.40
* TAX: SMIET for ER-A530	

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 CA2 key is programmed as tax delet	e for the same	e case with the above example
Key operation		Print
725 <u>1</u> 515 <u>3</u> CA2	DPT. O1 DPT. O3 MDSE ST TAX1 TAX2	⊤ : \$7. 25 ⊤ : \$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 , percent key or the PLU/UPC key by pressing the $\begin{bmatrix} TAX \\ SHIFT \end{bmatrix}$, $\begin{bmatrix} TA$

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 dept. 2 (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

Key operation		Print
$\begin{array}{c c} 1345 & \text{TAX} & 7 \\ \hline 700 & \text{SHFT} & 7 \\ \hline 700 & \text{SHFT} & \text{TAX2} & 2 \\ \hline 400 & \text{SHFT} & 3 \\ \hline 1050 & \text{SHFT} & \text{SHFT} & 1 \\ \hline 1 \\ \hline \\ \hline$	DPT. 07 DPT. 02 DPT. 03 DPT. 01 DPT. 01 MDSE ST TAX1 TAX2 CASH	T : \$13. 45 T ₁₂ \$7.00 \$4.00 T 2 \$10.50 T 2 \$10.50 \$45. 45 \$1.23 \$1.12 \$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
Taxable 1 and 2 item prohibited
Taxable 1 and 3 item prohibited
Taxable 2 and 3 item prohibited
Taxable 1 and 4 item allowed
Taxable 2 and 4 item allowed
Taxable 3 and 4 item allowed

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

Guest Check (GLU/PBLU)



Please note that the previous balance key (PRU) for ER-A520 and PBAL for ER-A530) is shown as PRU.

Two different guest check entry systems are available: the GLU system and previous balance lookup (PBLU) system. It depends on how your register has been programmed which of these is used. Please contact your authorized SHARP dealer for more information about this selection.

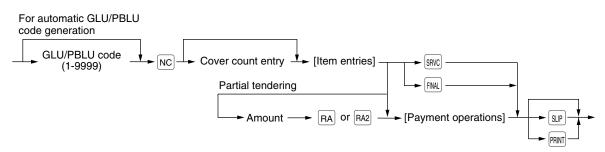
- **GLU system:** If this system is selected, the balance due and the details of the order are placed in the guest check file. The information can be automatically recalled by pressing the *GLU* key, or enteringa GLU code when additional ordering or finalization is required.
- **PBLU system:** If this system is selected, the previous balance is stored in the previous balance lookup file (PB lookup file). The information can be automatically recalled by entering a previous balance lookup code (a PBLU code) when additional ordering occurs.

GLU/PBLU system

New guest

For a new guest;

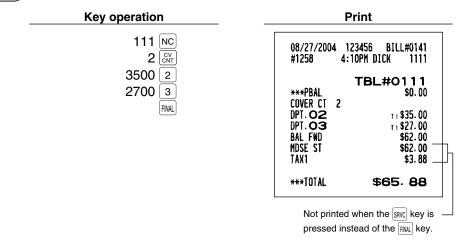




Note

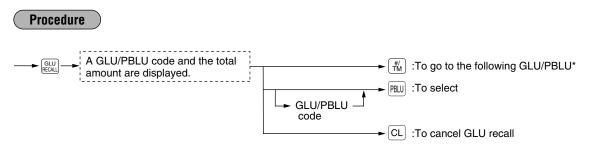
- The GLU/PBLU code refers to a number/code that will be used whenever the guest check must be accessed for re-ordering or final payment.
- The available range of GLU or PBLU codes can be programmed for each chashier/server.
- Your register can be programmed to generate GLU/PBLU codes in a sequential fashion. If your register has not been programmed to do so, each GLU/PBLU code can be entered manually.
- The cover count refers to the number of people in the party. When the cover count entry is compulsory, you must enter the cover count (max. 2 digits). When cover count is not compulsory, enter the cover count and press the OK key.
- When the [SRVC] key is pressed, the tax is not calculated.
- You can temporarily finalize a guest check by pressing the *m* key. In the GLU system the check will show the current balance including tax while the tax amount is not added to the GLU/PBLU file, and when an additional order is made, the tax amount is recalculated. In the PBLU system, the check will show the current balance including tax and the tax amount is added to the GLU/PBLU file (charge posting), while the guest check is still open.

Example

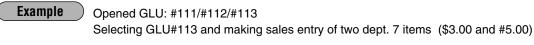


GLU recall

Each cashier/server can recall their GLU/PBLUs for reorder or settlement by pressing the we key. The register display GLU/PBLUs from the smallest GLU/PBLU number. Follow the procedure to recall GLUs and select a desired GLU/PBLU code.



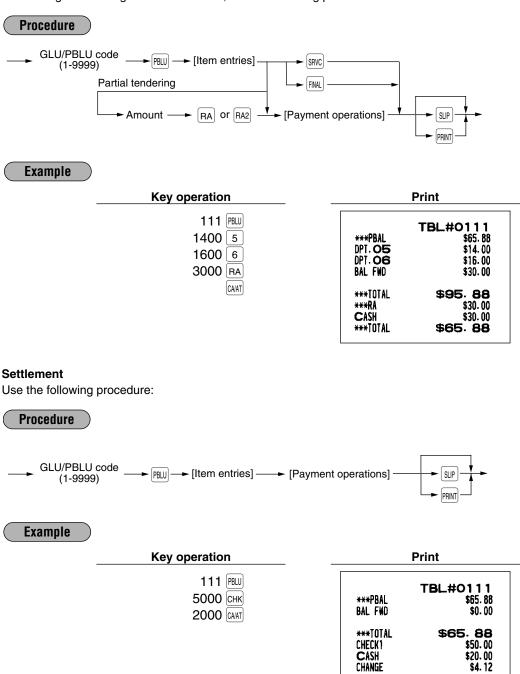
* When the largest opened GLU/PBLU number is displayed, the smallest GLU/PBLU number is displayed when the $\begin{bmatrix} \# \\ \pm \\ \# \end{bmatrix}$ key is pressed.



Key operation	Print
Get ready for sales entry \longrightarrow	08/27/2004 123456 BILL#0136 #1238 3:39PM DICK 1111
300 7	TBL#0113 ***PBAL \$24.00
500 7	DPT. 07 \$3.00
FINAL	DPT. 07 \$5.00 Bal FWD\$8.00
	DAL 1 #D \$6.00
	***TOTAL \$32.00

Reorder entries

For making additional guest check entries, use the following procedure:



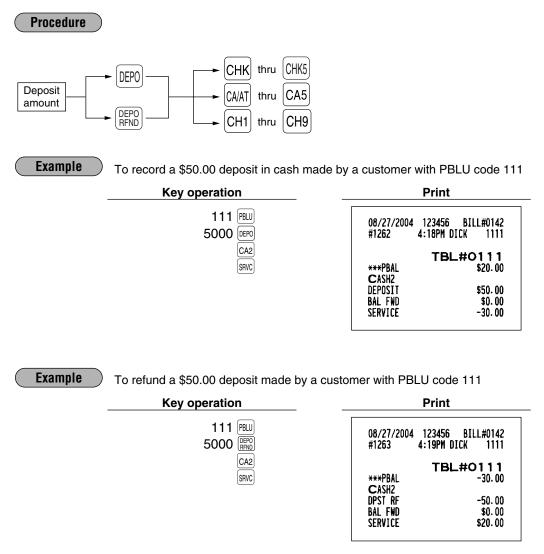
Note

- You can make a tip-in entry before a tender entry. If a tip-in entry is made, the tip amount must be tendered by using the associated media key e.g. CH1 thru CH9 for the charge tip and CASH 1 or CASH 5 for the cash tip.
 - Partial tendering is prohibited after tip-in entry operation.

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.

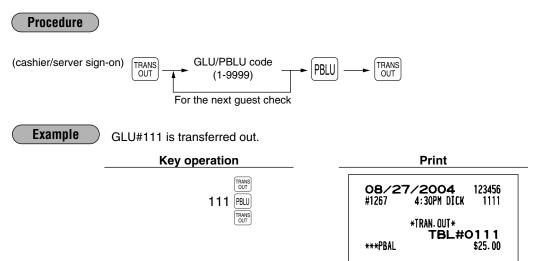
A received deposit can be refunded by pressing the $\frac{\text{DEPO}}{\text{IFND}}$ key. You cannot attempt to refund an amount larger than the deposit balance.



Transferring guest checks out or in (Transfer-out/in)

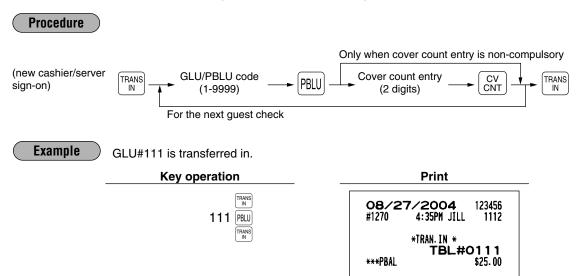
Transferring guest checks out

At the end of a cashier/server shift or whenever a cashier/server is relieved, one or more open guest checks can be transferred from the cashier/server to the open check file until the responsibility for the check(s) is assigned to another cashier/server.



Transferring guest checks in

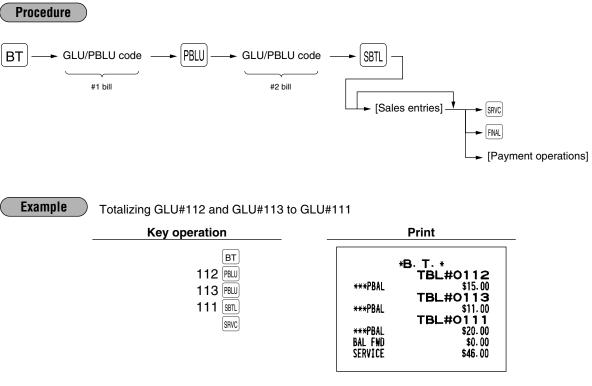
When the second cashier/server is assigned to be responsible for guest checks that have been transferred out:



Bill totalizing/bill transfer

Bill totalizing

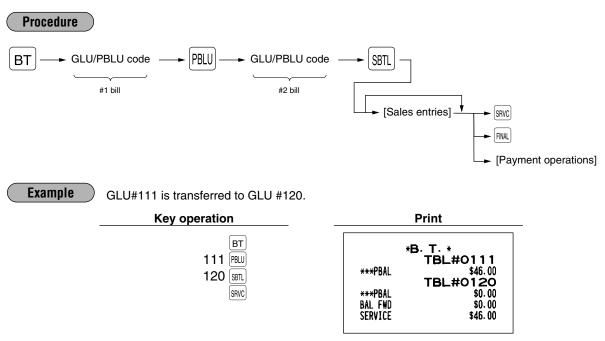
The bill totalizing function is used to totalize multiple bills when, for example, a particular guest pays not only his or her bill, but also the bills of other guests.



- All #1 bills are added to a #2 bill. A maximum of 5 bills may be added to a #2 bill.
 - The GLU/PBLU code of #1 must be in use. If the guest check(s) of #1 or #2 has already been handled by another server, the guest check(s) must have been made "Transferring out."

Bill transfer

This function is used to change the GLU/PBLU code of a particular bill.

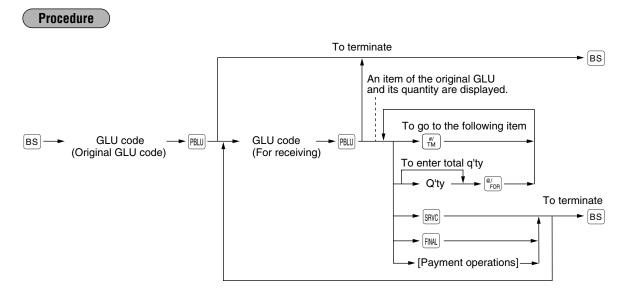


Note • This function requires that the current GLU/PBLU code be entered for #1 and a new GLU/PBLU code be entered for #2.

• A #1 bill is transferred to a #2 bill. The #1 bill is then cleared and set free.

Bill separating

The function is used when each guest of a group pays his or her own order. With this function, you can select some items from a guest check and make an entry for the payment. Also, you can transfer the items you have selected to other guest checks. This function is available only in the GLU system.



Example

One of the dept. 9 items is separated from GLU111 (three dept. 7 items and three dept. 9 items are entered.)

Key operation	Priı	nt
BS 111 PBU 117 PBU Dept. 7 item label and the q'ty are displayed To skip dept. 7 items	*B. S	BL#O111 5.* BL#O117 \$0.00 \$5.00 \$5.00 \$5.00
To select one of dept. 9 items 1 (*/or SRVC BS		

■ Manual Previous Balance (PB) and Credit Balance (CB) entry

The register allows you to make manual PB/CB entries. If you use this function, the previous balance amount is entered manually when making new entries that will adjust the original total.

Note

This function is not available when you use GLU or PBLU system. To use this function, please contact your authorized SHARP dealer.

New customers

For a new customer, use the following procedure:



Note When the second printed. When the second printed is pressed, the tax is automatically calculated and printed. The tax is then added to the balance and the new balance is printed.

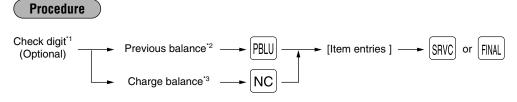
Example

Making a service entry for a dept. 5 item (\$87.50) and a dept. 6 item (\$62.50) item for a new customer. (A non-add code is used to identify the customer.)

Key operation	Print	t
NC	***PBAL	\$0.00
13579 ∰	#13579	\$87.50
8750 5	DPT. 05	\$62.50
6250 6	BAL FWD	\$150.00
SRVC	Service 3	\$150.00

Customer with previous or credit balance

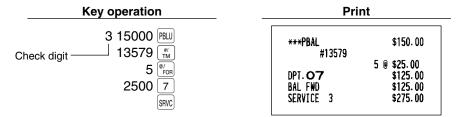
To enter a charge to a customer with a previous or credit balance, use the following procedure:



- *1 Check digit: The number which is printed at the right of the word "SERVICE" on the receipt of the previous entry. (See the previous page. Check with your authorized SHARP dealer for activation of the check digit feature.)
- *2 Previous balance: In case of the balance is plus or zero
- *3 Charge balance: In case of the balance is negative

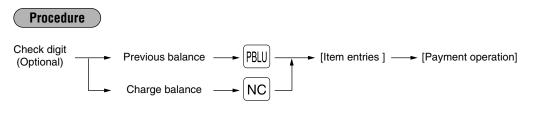
Example

To make a service entry of 5 dept 7 items (unit price \$25.00) for the customer account from the previous example. (non add code number 13579), which has the previous balance \$150.00.



Settlement

Use the following procedure:



Example

The customer (the non add code number 13579) whose previous balance is \$275.00 is \$27500 pays \$200.00 in check and \$75.00 in cash.

Key operation	F	Print	
З 27500 РВШ Check digit —— 13579 ∰ 20000 Снк	***PBAL #13579 BAL FWD	\$275.00 \$0.00	
7500 CAAT	***TOTAL CHECK1 CASH CHANGE	\$275.00 \$200.00 \$75.00 \$0.00	

7 Auxiliary entries

Percent calculations (premium or discount)

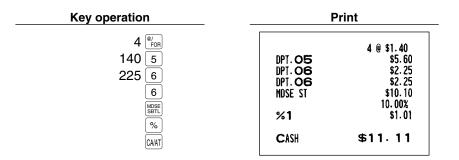
- Your register provides the percent calculation for the merchandise subtotal and item entries. You need to specify in advance whether the register should perform the percent calculation based on the merchandise subtotal or each item entered.
- Percentage: 0.01 to 99.99%

Percent calculation for the merchandise subtotal

Example

Selling four \$1.40 items of dept. 5 and two \$2.25 items of dept. 6; 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.)



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 [32] key.)

Key operation	F	Print
800 6	DPT. OG	\$8.00 -15.00%
90 (Prov 7 • 5 %2	% 2 PLU00090	-1.20 \$5.00 -7.5%
	%2	-0.38
	CASH	\$11.42

Discount entries

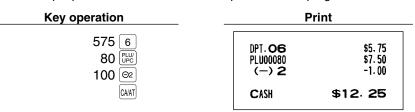
For discount or coupon tenderings, you may use the \bigcirc thru \bigcirc key.

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.

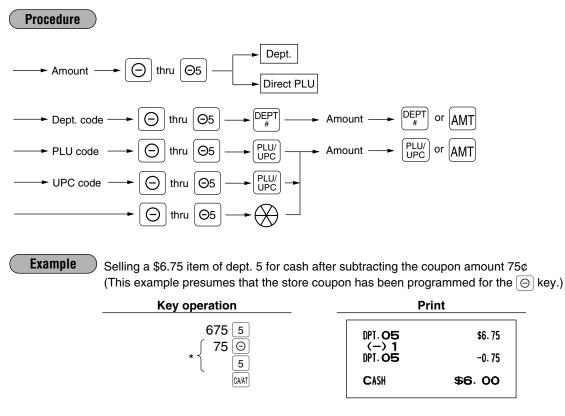
Discount for the merchandise subtotal



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 O2 key.)



Discount for item entries



Note

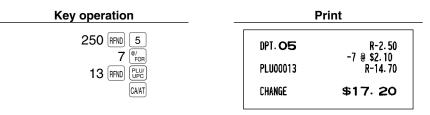
* The \bigcirc is entered as a modifier for the department which will be netted by the coupon amount. Such item netting coupon entries may generally be entered at any point within a transaction. Two lines are printed for each entry: The first is the label programmed for the \bigcirc function and the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

Refund entries

If a refund item is the one entered into a department, enter the amount of the refund, then press the RND 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 RND and RND and RND keys, or press the RND and direct PLU keys without entry of PLU code, in this order.

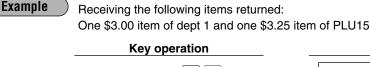


Receiving the following items returned: One \$2.50 item of dept.5 and seven \$2.10 items of PLU 13



Return entries

If a return item is the one entered into a department, enter the amount of the return, then press the we 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 we and we keys, or press the we and direct PLU keys without entry of PLU code, in this order.



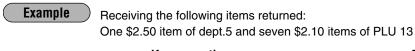


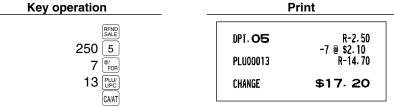


The returned items are not subjected to the calculation for dept./PLU/UPC items (quantity and amount) on the sales reports.

Refund sales mode

This function is used for those item return entries relating to departments, PLUs/subdepartments and UPCs. Pressing the REFUND SALES mode 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.





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 $\frac{\#}{100}$ 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. 5 by charge account to a customer whose code number is 1230

Key operation	Pri	nt
1230 ^{#/} 1500 5 CH1	#1230 DPT. 05 CHARGE1	\$15.00 \$ 15.00

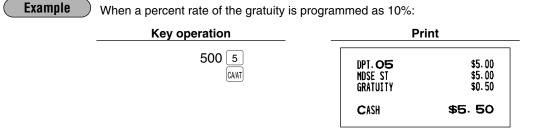
Gratuity

Calculation

When the payment operation is made for sales registrations, the gratuity amount is calculated and printed. You can program a percent rate for calculating the gratuity.

If the percent rate is programmed as 0%, the register does not print any gratuity.

You can program a tax status (taxable 1/taxable 2/taxable 3/taxable 4/non-taxable) for gratuity.



Exemption

Your register allows you to exempt a customer from the gratuity by pressing the [BART] key prior to a payment operation.

_	Key operation	Pr	int
	1250 5 1000 6 GRT GRT	DPT. 05 DPT. 06 GRATUITY	\$12.50 \$10.00 \$0.00
	CA/AT	CASH	\$22.50

Payment treatment

Tip-in entries

Your register allows the entry of tips that your guests give to cashiers/servers in cash or by credit card. A tip entry must be done before a payment entry.

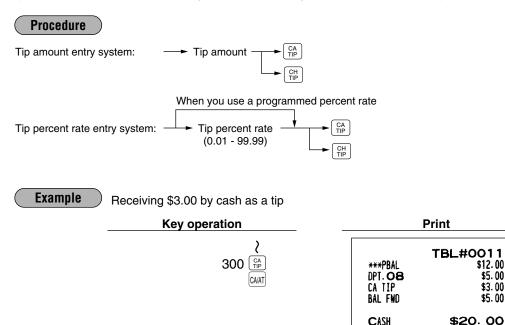
You must use the corresponding media key e.g. CH1 thru CH9 for the charge tip and CASH 1 or CASH 5 for the cash tip.

> \$5.00 \$3.00

> \$5.00

CASH

Two different tip-in entry systems are available: the tip amount entry system and the tip percent rate entry system. It depends on how your register has been programmed which of these systems is used.



Tip editing

This function is used for entering tip amounts after finalizing a guest check with a charge tender. This is only available when the guest check transaction is finalized through CAT authorization and the tip is to be paid in charge tender. The bill number which is issued when the swc or File key is pressed in guest check entry must be used in order to identify the guest to edit or add tip amount. For the operation, press the File key. When the display prompt appears, enter the bill number and press the File key, then enter tip amount and press the File key again.

To use the tip editing function, please consult your authorized SHARP dealer.

CH TIP	TBL#1110 \$3.00
CHARGE1	\$3.00

Tip paid entries

This operation is used when tips that guests have paid by using credit card are paid to respective cashiers/servers in cash. To perform a tip paid entry, enter the cashier/server code, then press the PAD key. You can prohibit the tip paid operation in the REG mode by the PGM2 programming.

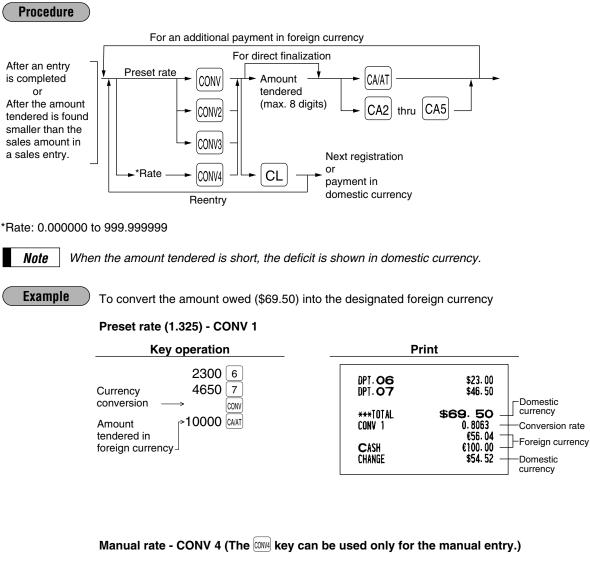


When the tip amount remains unchanged in Individual Server Resetting, the tip paid function is automatically executed and tip receipt is issued to the report printer prior to report printing.

08/27	7/2004	123 456
#1144	5:14PM DICK	1111
TIP PAID		\$5.00

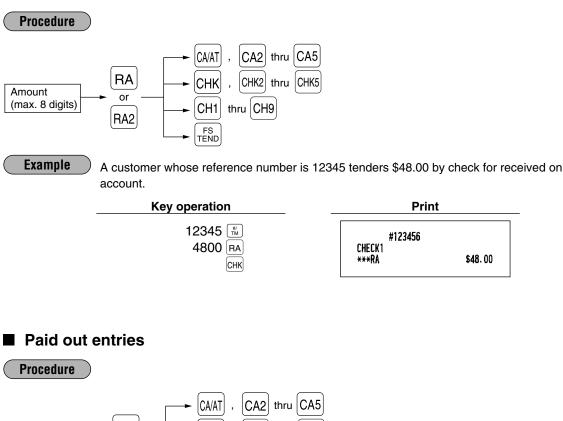
Currency conversion

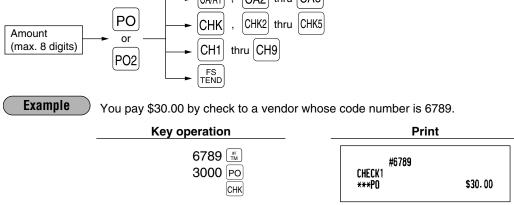
Your register allows payment entries of foreign currency. Pressing the community thru community key creates a subtotal in foreign currency. Cash payment is the only media that can be handled after currency conversion.



Key operation Print			
2300 6 4650 7	DPT. 06 DPT. 07	\$23.00 \$46.50	
1 • 275 conve 10000 calat	***TOTAL Conv 4	\$69,50 1.275 88.62	Conversion
	CASH Change	100.00 \$8.92	

Received on account entries





No sale (exchange)

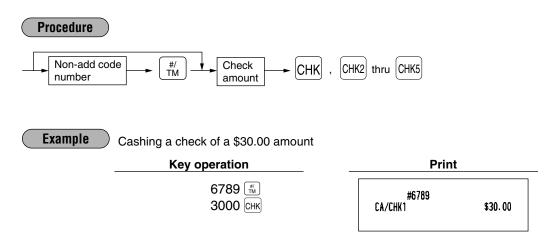
Simply press the NS key without any entry. The drawer will open and the printer will print "NO SALE" on both the journal and the receipt. If your machine is preset to print a non-add code number before pressing the NS key, a no sale entry is achieved with a non-add code number printed.

#45678 No Sale

\$48.00

Cashing a check

Enter the check amount, then press a check key (CHK, CHKI thru CHKS).



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. 10 has been programmed as bottle return department.)

Key operation	Print		
10 ^{(®} / _{FOR} 15 10 (CA/AT	DPT. 10	10 @ -0.15 -1.50	
	CHANGE	\$1.50	

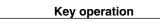
9 Automatic sequencing key entries

You can achieve many different key sequences automatically with a single key depression by using an automatic sequencing key ($auto + 10^{10}$ thru $auto + 10^{10}$).

AUTO 2

Example

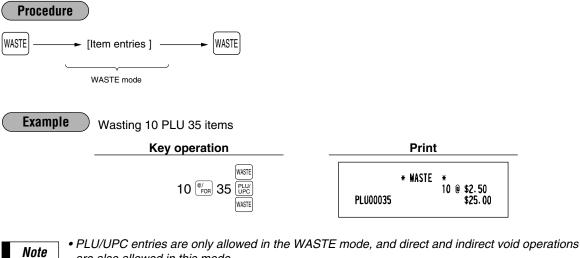
Performing the transaction "Selling a \$5.00 item (dept. 7) for cash" programmed for the $\frac{1000}{2}$ ($\frac{1000}{2}$ = 500 7 (CMAT)



Print		
DPT. 07	\$5.00	
CASH	\$5. 00	

10 WASTE mode

This mode is used to throw away an article which has already been prepared and is no longer serviceable.

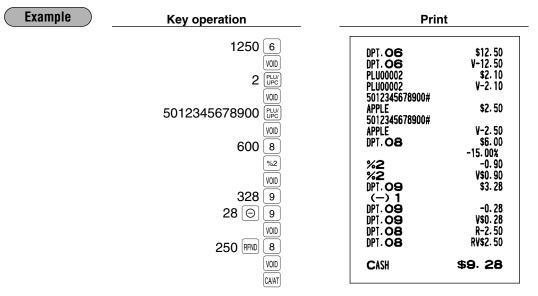


- are also allowed in this mode.
 When a WASTE mode transaction is finalized, the drawer does not open.
 - The consecutive number is incremented every WASTE mode transaction.
 - When the WASTE mode is activated by pressing the with key, the mode caption "WAST" is displayed.

CORRECTION

Correction of the last entry (direct void)

If you make an incorrect entry relating to a department, PLU/subdepartment, UPC, percentage ($\frac{6}{2}$ through $\frac{6}{2}$), deduction (\bigcirc through \bigcirc) or refund, you can correct this entry by pressing the $\frac{1}{2}$ key immediately after the incorrect entry.



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

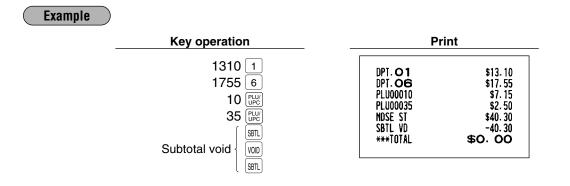
With the work key, you can void any incorrect department, PLU/subdepartment, UPC or item refund entry made during a transaction if you find it before finalizing the transaction (e.g. pressing the key). This function is applicable to department, PLU/subdepartment, UPC and item refund entries only.

For the operation, press the $\overline{\text{WD}}$ key just before you press a department key, $\overline{\mathbb{P}}_{*}^{\text{PET}}$ key, direct PLU key, $\overline{\mathbb{P}}_{*}^{\text{WD}}$ key or just before you scan a UPC code. For the refund indirect void, press the $\overline{\text{WD}}$ key after you press the $\overline{\text{RND}}$ key.

Example	Key operation	Print
	1310 6 1755 7 10 58 58 825 7 5012345678900 00 6 58 VOD 6 58 VOD 6 58 VOD 6 00 7 00 6 00 7 00 7 00 7 00 7 00 7 00	DPT. O6 \$13.10 DPT. O7 \$17.55 PLU00010 \$7.15 PLU00008 \$3.00 PLU00058 \$3.00 DPT. O7 \$8.25 5012345678900# \$4.25 APPLE \$2.50 DPT. O6 \$-13.10 PLU00008 \$-3.00 PLU00008 \$-3.00 S012345678900# \$-3.00

Subtotal void

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



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:

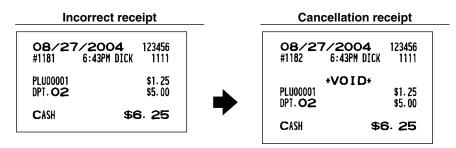
1. If you are in the middle of making an amount tendered entry, you must first finalize the transaction before

- 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 www 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.)





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

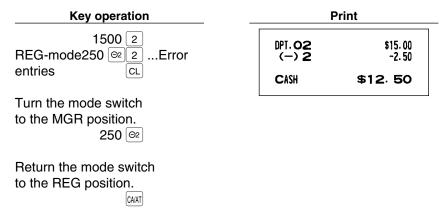
Programmed limits (such as maximum amounts) for functions can be overridden by making the entry in the MGR mode.

Procedure

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

Example

nple 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.)



OVERLAPPED CASHIER/SERVER ENTRY

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

Example

Cashier 1: Entry started

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

Cashier 2: Transaction finished (2)

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

Note

• The overlapped cashier/server entry is not available while the tendering sale.

 If any cashier/server 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 "SERVER ERR." and the corresponding cashier/server code(s) are displayed at this time.

Key operation	Comments
1. Cashier/server 1 is assigned.	The entry by cashier/server 1 is started.
$(1^{(CASH)}_{\#})$	
100 1	
360 3	
3	
2. Cashier/server 2 is assigned.	The entry by cashier/server 2 is started.
2 ^{CASH} #	(The entry by cashier/server 1 is interrupted.)
3 ^{(®/} FOR	
150 2	
CA/AT	The transaction by cashier/server 2 is finalized.
3. Cashier/server 1 is assigned.	
	The entry by cashier/server 1 is restarted.
100 1	
360 3	
CAIAT	The transaction by cashier/server 1 is finalized.

SPECIAL PRINTING FUNCTIONS

Copy receipt printing

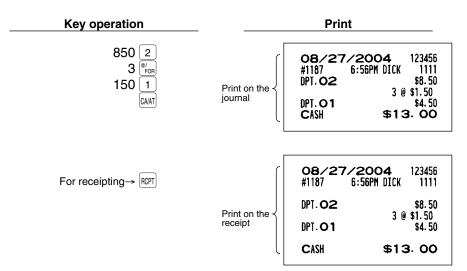
If your customer wants a receipt after you have finalized a transaction with the receipt ON-OFF function in the "OFF" status (no receipting), press the Reverse key. This will make a copy receipt. Your register can also print a copy receipt when the receipt ON-OFF function is in the "ON" status.

Note

Pressing the REFT 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



When the receipt ON-OFF function is in the "ON" status and you press the ROPT key to make a second copy

08/27/2004 123456 #1188 7:00PM DICK 1111	
COPY DPT.O2 3 @ \$1.50	When the receipt ON-OFF function is in the ON status, the *COPY* symbol will be printed on the receipt.
DPT. O1 \$4.50	
CASH \$13.00	

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 RM key. The validation printing will start.



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.

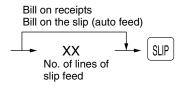


3 Bill printing

This function is used for issuing bills to customers/guests. Your register can print bills on a slip printer or receipts on the register depending on the programming. You can issue bills when GLU/PBLU/Manual PB/CB entries are done only, for every entry or when a media key is pressed. For this selection, please consult your authorized SHARP dealer.

When bill printing is compulsory, the register will print a bill automatically in case it is to be printed on receipts and when a slip is inserted in case it is to be on a slip printer.

When bill printing is non-compulsory, use the following procedure to print a bill.



BILL TBL#0111							
***PBAL	\$0.00						
	2 🖲 \$10.00						
DPT. O7	\$20.00						
DPT. O9	\$5.00						
DPT. O9	\$3.00						
DPT. 07	\$5.00						
BAL FWD	\$33.00						
***TOTAL	\$33.00						



This function is available immediately after the finalization of transaction (including after pressing the save).

4 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.

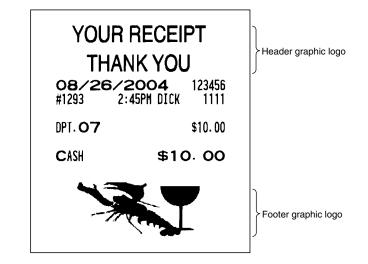
Printing of arrival time

---- 1 ----- PRINT

Printing of departure time

5 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

6 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

Item entry $\longrightarrow \begin{bmatrix} \mathsf{RP} \\ \mathsf{SEND} \end{bmatrix} \longrightarrow$ Data transfer to the remote printer

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

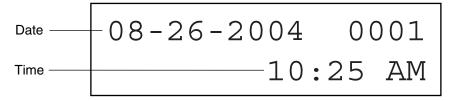
Time display

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 $\frac{1}{100}$ 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.

PRIOR TO PROGRAMMING

Programming keyboard layout 1

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-A520



(NUM)	(DC)		
Ø/FOR	•	CL	
7	8	9	
4	5	6	
1	2	3	
	0		

				¢æ Æ	(BACK SPACE)
" A	"F	"к	\$ P	[%] U	Å X
, В	*G	L	/ Q	(V) Y
: C	; H	, М	R	! W	? Z
+ D	-	= N	Ç S		SBTL
< E	> 	Pt O	£ Т	CA/A	T/NS

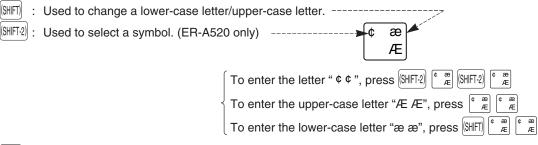
For ER-A530

(SHIFT)

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

• The programming keyboard sheet is transparent, allowing placement over the standard keyboard Note sheet.

- The shaded area contains the character keys which are used for programming characters.
- (DC) : Used to enter the double-size character.



- BACK : Used to back up the cursor for deleting.
- (SPACE) : Used to enter a space.
- (NUM) : Used to enter a numeric character. (ER-A520 only)

(SHIFT)

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 (keys on the shaded area)

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.

In case of ER-A520, "(\sim)", and "(\sim)" keys can be used in combination with a character key. If the combination is unavailable, only a character key is entered.

 $[\mathsf{Ex.}] \ ``\text{A}": \longrightarrow (\circ) \longrightarrow \mathsf{A}$

To enter a numeric character:

(ER-A520) Press [MM] key and enter a number by ten keys (0 - 9).

[Ex.] Entering the character "135" : $(NM) \rightarrow 135 \rightarrow (NM)$

(ER-A530) Simply press a corresponding numeric key in the shaded area.

To enter a space, press the SPACE key.

Entering double-size characters

(icc) : 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 : (icc) → SHARP → (icc)

Entering lower-case letters

If You can enter a lower-case letter by using this key. Press I 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": → S → I First → harp → I First

Entering symbols shown at the upper left of keys (ER-A520 only)

(BHFT2): You can enter symbols by using this key. Press (BHFT2) key just before you enter the symbol.
[Ex.] To program the symbol " ¢ ¢ ": → (BHFT2) → ¢ → (BHFT2) → ¢

Editing text

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.

 $XXX \rightarrow 00$ 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

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

Alphanumeric character code table

Code	Character	Code	Character
001	á	046	
002	â	047	/
003	ê	048	0
004	î	049	1
005	ì	050	2
006	í	051	3
007	Ô	052	4
008	Ó	053	5
009	û	054	6
010	ú	055	7
011	œ	056	8
012	ú	057	9
013	ú	058	:
014	Ő	059	;
015	Ó	060	<
016	Λ	061	=
017	Ψ	062	>
018	Г	063	?
019		064	@
020	Ω	065	Α
021	Δ	066	В
022	θ	067	С
023	Ξ	068	D
024	П	069	E
025	Σ	070	F
026	Ŷ	071	G
027	Φ	072	Н
028	Ű	073	I
029	Ú	074	J
030	Ő	075	К
031	Ó	076	L
032	(space)	077	М
033	!	078	N
034	"	079	0
035	#	080	Р
036	\$	081	Q
037	%	082	R
038	&	083	S
039	,	084	Т
040	(085	U
041)	086	V
042	*	087	W
043	+	088	Х
044	,	089	Y
045	-	090	Z

Code	Character
091	Ä
092	Ö
093	Ü
094	^
095	
096	
097	а
098	b
099	C
100	d
101	e
102	f
103	g
104	h h
105	i
105	j
107	k j
107	
109	m
110	n
111	0
112	p
113	q
114	r r
115	S
116	t
117	u
118	V
119	w
120	x
121	у
122	z
123	{
124	
125	}
126	ß
127	¢
128	!!
129	1
130	2
131	3
132	4
133	1/2
134	F/T
135	←

Code	Character
136	\rightarrow
137	~
138	S
139	•
140	
141	F
142	т
143	\downarrow
144	Ç °
145	0
146	j
147	Ù
148	à
149	Æ
150	ø
151	Å
152	Ø
153	é
154	è
155	Pt
156	i
157	Ñ
158	ò
159	£
160	¥
161	°
162	Г
163	
164	~
165	Á Á
177	Á
178	
180 181	Á Í Ā ā
181	a Ē
183	ē
184	Ē
185	i
186	Ū
187	U 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	k		
200	Ļ		
201	ļ		
202	Ž		
203	Ð		
204	đ		
205	Ć		
206	ć		
207	€		
208	P		
209	`		
210	ě		
211	š		
212	č		
213	ž		
214	ý		
215	ů		
216	ň		
217	~		
218	-		
219	ř		
224	*		
225	§		
226	Ø		
227	~		
228	1		
229]		
230	[
231	"		
232	ä		
233	ö		
234	ü		
235	æ		
236	å		
237	É		
238	ñ		
253	*(DC)		
	, ,		
L	1		

*(DC) : Double-size character code

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

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

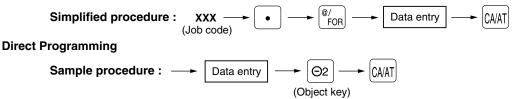
PROGRAMMING

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. Also your machine allows you to program some items using the **Direct Programming**, which does not require you to enter the job code. However, object keys (shown below) must be allocated on the keyboard. For the keys not allocated on the keyboard, you cannot use the direct programming.

Job-Code-Based Programming



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.

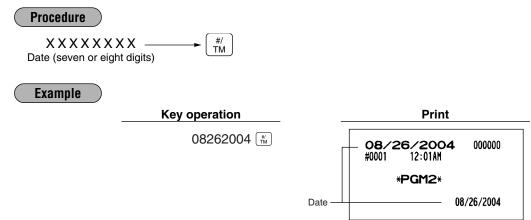
- **3.** Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt paper rolls correctly referring to the procedure in "4. Installing and removing the paper roll" under "OPERATOR MAINTENANCE".
- 4. Program the necessary items into your machine.

Direct Programming

Setting the date and time

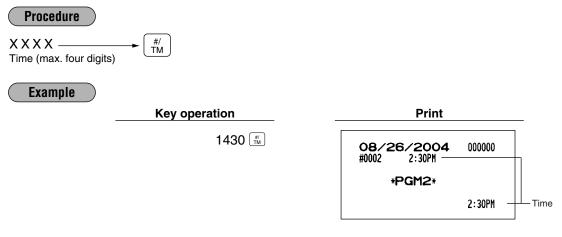
Date PGM 1 PGM 2

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



Time PGM 1 PGM 2

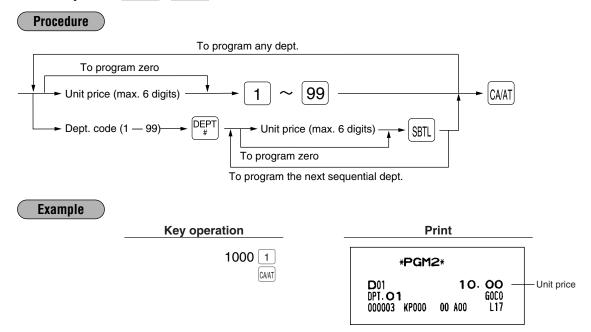
Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430. The time will be printed and displayed using a real-time system. Once you set the time, the internal clock unit will continue to run as long as the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



2 Programming for departments

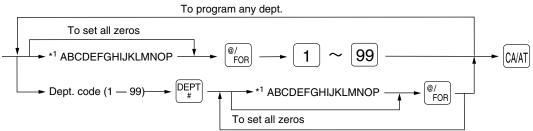
Your machine is equipped with 20 (ER-A520)/10 (ER-A530) standard departments and a maximum of 99 departments. Your machine allows you to perform the following programming for each department.

Unit price PGM 1 PGM 2



■ Functional selection PGM 2

Procedure



To program the next sequential dept.

Item:		Selection:	Entry:
Α	Group number		0 thru 9 (0: Non group)
В	Commission group number		0 thru 9 (0: Non commission)
С	Sign (plus/minus)	Plus	0
		Minus	1
D	Food stamp status	Ineligible	0
		Eligible	1
Е	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
l lt	Item validation printing	Non-compulsory	0
		Compulsory	1
J	Tare table number		0 thru 9 (0: not used)
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
М	Department type	Normal department	0
		Hash department	1
		Bottle return department	2
		Gas department	3
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
Ρ	Number of zeros to follow the sign	nificant digit for HALO	0 thru 7

Group number

Note

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 [CMAT] 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.

- Normal department
- 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.

- Bottle Return (BR)
- Gas department

The gas department enables you calculate the quantity of gas sold in gallon by using a preset unit price when the sale amount of gas is entered. (quantity of gas = sales amount entered / preset unit price)

Also gas discount can be automatically applied to the sales. (discount amount = total amount of gas x reduced unit price for each media; cash/check/charge)

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

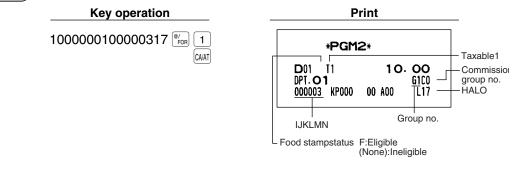
For example, presetting 14 (\$100.00) here means that amount entries of up to \$100.00 are allowed in the REG mode. When you preset 17, the upper limit amount is 99999.99.

83

Example

Note

Unit price



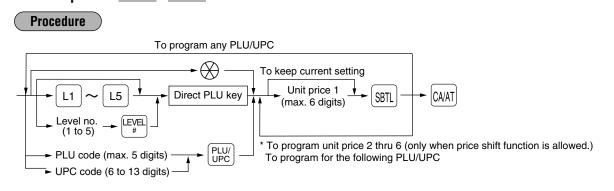
3 PLU/UPC programming

PGM 1

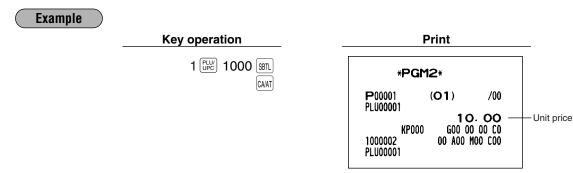
Your machine is equipped with 2000 standard PLU/UPC codes. Your machine allows you to perform the following programming for each PLU/UPC.

- eg Please note that the price lookup/subdepartment/UPC key (Fig for ER-A520) is shown as Fig .
- To review the UPC codes available to this register, please refer to the chapter 13 in "Universal Product Code(UPC) or European Article Number(EAN)".
 - 🛞 in Procedures indicates that you scan a barcode.

PGM 2



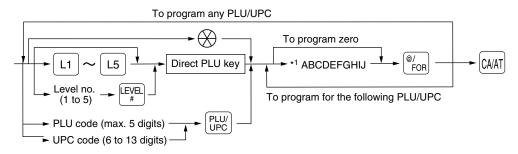
* In case that price shift function is allowed, the register prompts to enter a unit price for the following level by displaying "P2" thru "P6" on the display, and when a unit price of level 6 is entered, the register goes to the status for programming the following PLU/UPC. When you press the chart on the way of programming multiple prices for a PLU/UPC code, prices for the remained levels are kept unchanged. In case that single price entry is allowed for a PLU/UPC code, the register goes to the status for programming the following PLU/UPC code, the register goes to the status for programming the following PLU/UPC code, the register goes to the status for programming the following PLU/UPC.



(In case of single price entry)

Functional selection PGM 2

Procedure



Item	1:	Selection:	Entry:
Α	Commission group number		0 thru 9 (0: Non commission)
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
Е	Tax 3 status	Non-taxable	0
		Taxable	1
F	Tax 2 status	Non-taxable	0
		Taxable	1
G	Tax 1 status	Non-taxable	0
		Taxable	1
Н	Tare table number		0 thru 9 (0: Not used)
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



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	Eurotian of PL U/UPC	
Department	PLU/UPC	Function of PLU/UPC	
+	+	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

• 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

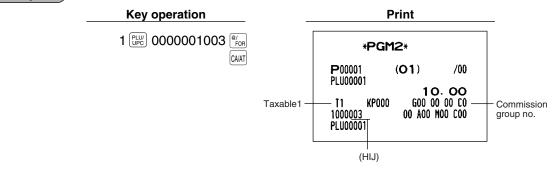
Program a PLU/UPC for scale entry when your store requires items to be sold by weight and are placed on a scale connected to the register.

Type of unit price entry

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

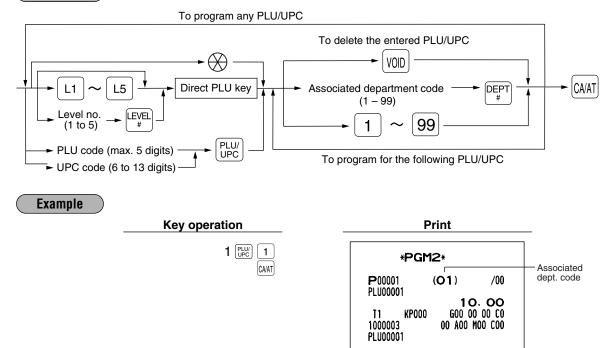
- Open price and preset price (for only PLU)
- Preset price only
- Open price only (for only PLU)
- Prohibit mode: Prohibits the entry of any assigned PLU/UPC code.
- Delete mode: Deletes data programmed for each PLU/UPC.

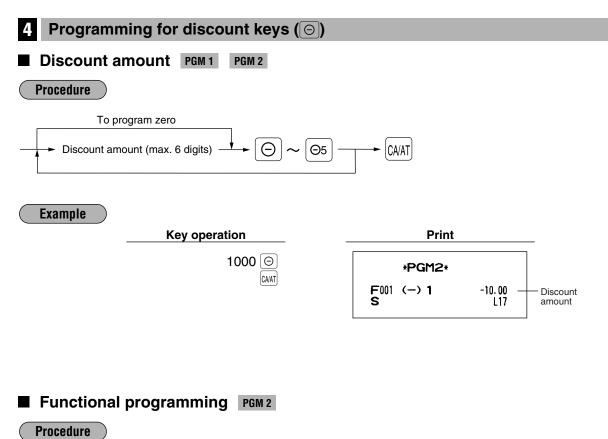
Example

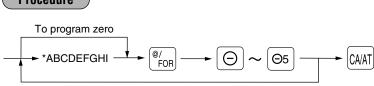


Associated department PGM 1 PGM 2

Procedure







To program any coupon function

Item:		Selection:	Entry:
Α	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	Vendor/store coupon selection	Vendor coupon (subtotal ⊝)	0
		Store coupon (item ⊙)	1
Н	Significant digit for HALO		1 thru 9
I	Number of zeros to follow the significant digit for HALO		0 thru 7

Tax status (taxable 1 thru 4/non-taxable) Note Tax 4 is prohibited if you use the food stamp function. HALO (High amount lockout) "HI" is the same as $H \times 10^{1}$. 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. **Example** Key operation Print 000011013 ^{@/}FOR Θ *PGM2* CA/AT F001 (-) 1 -10.00 HALO S <u>I1</u> L13 L Taxable 1 - Food stamp status F:Eligible (None):Ineligible Subtotal Programming for percent keys (%) Ы Percent rate PGM 1 PGM 2 Procedure To program zero % Rate %1 %5 CA/AT * Rate: Percent rate: 0.00 - 100.00 Note You must use a decimal point key when setting percentage rates that are fractional. **Example** Key operation Print 10 • 25 % *PGM2* CA/AT F006 %1 -10.25% Percent S 3 L100.00% rate

■ Functional programming PGM 2

Procedure



Item	:	Selection:	Entry:
Α	Type of amount entry	Inhibit percent key	0
		Open only	1
		Preset only	2
		Open and preset	3
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
G	Sign (+/-)	Plus	0
		Minus	1
н	item%/subtotal% selection	Subtotal %	0
		Item %	1
I	Always enter 0.		0
J	Always enter 0.		0

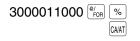
Note

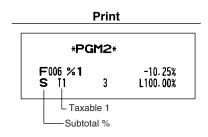
Tax status (taxable 1 thru 4/non-taxable)

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

Example

Key operation



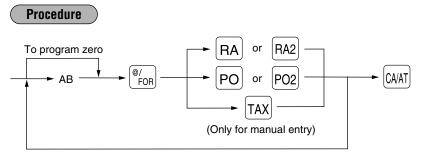


6 Programming for conversion keys ([CONV])	
Currency conversion rate PGM 1 PGM 2	
Procedure	
To program zero * Conversion rate CONV ~ CONV3 ~ (* Conversion rate: 0.0000 – 9999.9999 Note You must use a decimal point key when setting of Example	CAAT
Key operation	Print
0 • 8063 CONV CAAT	*PGM2* F106 CONV 1 0.8063

7 Programming for the RA, PO, and TAX keys

■ High amount lockout (HALO) PGM 2

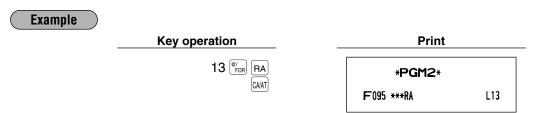
The HALO limit effects REG mode operations but can be overridden in the MGR mode. The HALO limit is represented by two figures as follows:



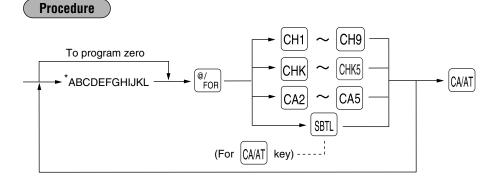
"AB" is the same as $\textbf{A}\times 10^{\textbf{B}}.$

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)



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



Item:		Selection:	Entry:
Α	GLU/PBLU/Manual PB/CB entry	Enable	0
		Inhibit	1
		Compulsory	2
В	Short amount tender entry	Enable	0
		Disable	1
С	Retention of closed GLU/PBLU file	No	0
		Yes	1
D	Bill (slip) printing	Non-compulsory	0
		Compulsory	1
Е	Footer printing on receipt	No	0
		Yes	1
F	Non-add code entry	Non-compulsory	0
		Compulsory	1
G	Change enable (over tender enable)	Enable	0
		Disable	1
Н	Validation printing	Non-compulsory	0
		Compulsory	1
I	Drawer opening	Yes	0
		No	1
J	Amount tendered operation	Optional amount tendered for cash or check	0
		Inhibit amount tendered for charge	0
		Compulsory amount tendered	1
Κ	Significant digit for HALO		0 thru 9
L	Number of zeros to follow the signification	Int digit for HALO	0 thru 8

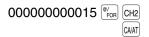
Note HALO (High amount lockout)

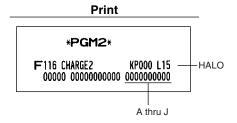
"KL" is the same as $K \times 10^{L}$. For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in

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.

Example

Key operation





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/UPC, and function key.

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

Sample tax table

New Jersey tax table: 6%

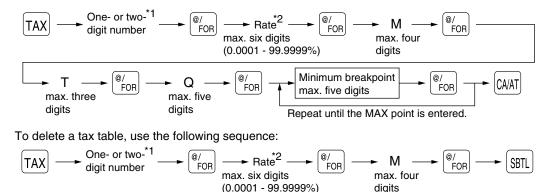
	Range of sales amount				A: Difference between the minimum breakpoint and	
Taxes	Minimum breakpoint	Maximun	n breakpoint		the next one (¢)	
.00	.01	to	.10		-	
.01 — T	.11 —Q	to	.22		10 (0.11 - 0.01)	B: Non-cyclic
.02	.23	to	.38		12 (0.23 - 0.11)	
.03	.39	to	.56		16 (0.39 - 0.23)	
.04	.57	to	.72	N	18 (0.57 - 0.39)	↓
.05	.73	to	.88		16 (0.73 - 0.57)	C: Cyclic-1
.06	.89	to	1.10	5	16 (0.89 - 0.73)	
.07	1.11 — M1	to	1.22	r	22 (1.11 - 0.89)	
.08	1.23	to	1.38		12 (1.23 - 1.11)	
.09	1.39	to	1.56		16 (1.39 - 1.23)	
.10	1.57	to	1.72		18 (1.57 - 1.39)	¥
.11	1.73	to	1.88		16 (1.73 - 1.57)	D: Cyclic-2
.12	1.89	to	2.10		16 (1.89 - 1.73)	
.13	2.11 - M2	to	2.22		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 CL key; and if you make an error after entering the M, cancel it with the SR key. 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	Print
Tax rate \rightarrow $1 \begin{bmatrix} TAX \\ @/\\ POR \\ e \end{bmatrix}$	*PGM2*
$\begin{array}{cccc} \text{Tax rate} & \rightarrow & 6 & \text{e}_{\text{FOR}} \\ M & \rightarrow & 100 & \text{e}_{\text{FOR}} \\ T & \rightarrow & 1 & \text{e}_{\text{FOR}} \\ Q & \rightarrow & 11 & \text{e}_{\text{FOR}} \end{array}$	TAX1 6.0000%
The first23 errorcyclic39 errorportion57 error73 error73 error	5 0.73 6 0.89 7 1.11
$(MAX \text{ point}) \rightarrow \begin{bmatrix} 89 \\ \text{e}_{\text{POR}} \\ 111 \\ \text{e}_{\text{FOR}} \\ \text{CAAT} \end{bmatrix}$	

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.

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

Modification of the left tax table

From the modified tax table above;

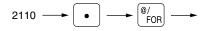
Sample tax table

Rate = 8(%), T = \$0.01 = 1¢, Q = \$0.11 = 11¢, M1 = 1.11, M2 = 2.11, 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.



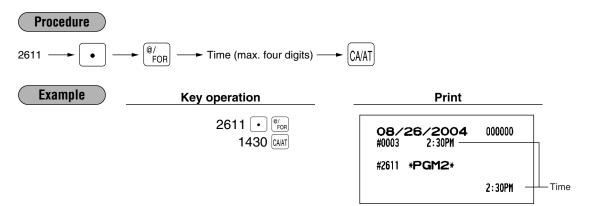
Setting the date and time

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.

Setting the	date PGM 2 2610 Direct			
Enter the month (on	Enter the month (one or two digits), day (two digits), and year (four digits: 2000 - 2099) in this sequence.			
Procedure				
2610 \longrightarrow \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc Date (seven or eight digits) \longrightarrow \bigcirc				
Example	Key operation	Print		
	2610 • ^{@/} FOR			
	08262004 CAIAT	#0002 12:00AM		
	_	#2610 * PGM2 *		
		Date		

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.

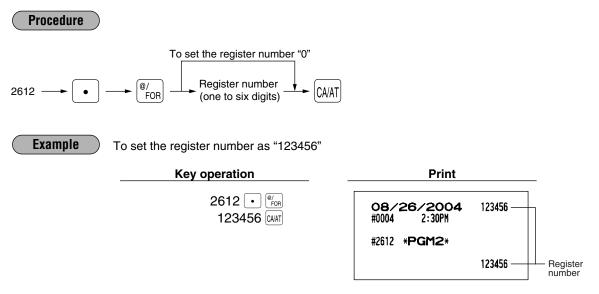


2 Setting the register and consecutive numbers

Setting the register number PGM 2

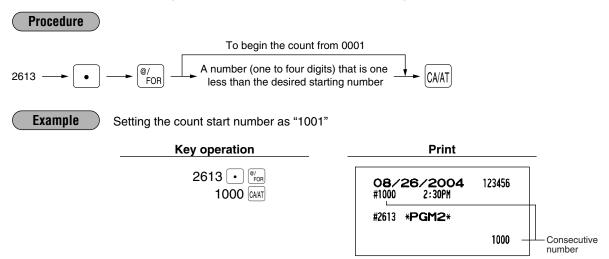
When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them with a maximum of six digits.

2612



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.



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/UPC, 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 o	Range of sales amount		
Taxes	Minimum breakpoir	nt	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	

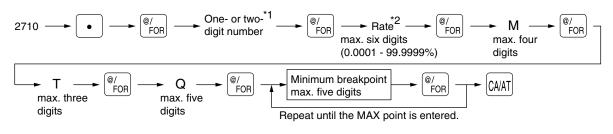
	A: Difference between the minimum breakpoint and the next one (¢)		
	– 10 (0.11 - 0.01)	B: Non-cyclic	
	12 (0.23 - 0.11)		
	16 (0.39 - 0.23)		
>	18 (0.57 - 0.39)	↓ 0:0:0:1:1:1	
	16 (0.73 - 0.57)	C: Cyclic-1 	
	16 (0.89 - 0.73)		
	22 (1.11 - 0.89)		
	12 (1.23 - 1.11)		
	16 (1.39 - 1.23)		
	18 (1.57 - 1.39)	v D: Cyclic-2	
	16 (1.73 - 1.57)		
	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.

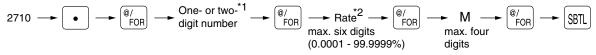
From the tax table, calculate the differences between a minimum break point and the next one (A). Then, from the differences, find irregular cycles (B) and regular cycles (C and D). These cycles will show you the following items necessary to program the tax table:

- 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



To delete a tax table, use the following sequence:



- *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.

If you make an incorrect entry before entering the M in programming a tax table, cancel it with the CL key; and if you make an error after entering the M, cancel it with the SR key. 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

Note

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

Key operation	Print
2710 • [@] / _{FOR} 1 [@] / _{FOR}	#2710 * PGM2 *
Tax rate \rightarrow $6 \frac{@}{FOR}$	TAX1 6.0000%
$M \rightarrow 100 \frac{@}{FOR}$	/ 1.00
T \rightarrow 1 $\frac{@}{FOR}$	2 0.23
$Q \rightarrow 11^{(e)}_{FOR}$	3 0.39 4 0.57
	5 0.73
The first 39	6 0.89 7 1.11
cyclic 57 FOR portion 57 FOR	
73 [®] / _{FOR}	
M1 89 (%)	
(MAX point)→ 111 ^{®/} _{FOR}	
CA/AT	

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.

Example 8%						
Тах	Minimum breakpoint					
.00	.01	.0				
.01	.11	.0				
.02	.26	.0				
.03	.47	.0				
.04	.68	.0				
.06	.89	.0				
.09	1.11	.0				
.10	1.26	.0				
.11	1.47	.0				
.12	1.68	.0				
.14	1.89	.1				
.17	2.11	.1				
		' .1				
		.1				
		-				

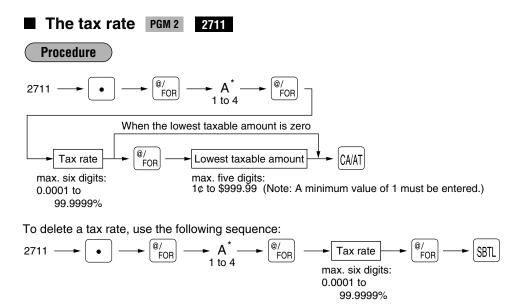
Sample tax table

Modification of the left tax table

Тах	Minimum breakpoint		Breakpoint difference (¢)	
.00	.01		1	
.01 — T	.11 — Q		10 (0.11-0.01)	B: Non-cyclic
.02	.26		15 (0.26-0.11)	
.03	.47	N	21 (0.47-0.26)	
.04	.68		21 (0.68-0.47)	
.05	.89		21 (0.89-0.68)	♦
.06	.89		0 (0.89-0.89)	C: Cyclic-1
.07	1.11 — M1		22 (1.11-0.89)	1
.08	1.11	\subseteq	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: Cyclic-2
.14	1.89		0 (1.89-1.89)	
.15	2.11 — M2		22 (2.11-1.89)	
.16	2.11		0 (2.11-2.11)	
.17	2.11		0 (2.11-2.11)	

From the modified tax table above;

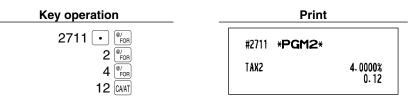
Rate = 8(%), T = \$0.01 = 1¢, Q = \$0.11 = 11¢, M1 = 1.11, M2 = 2.11, M = 100



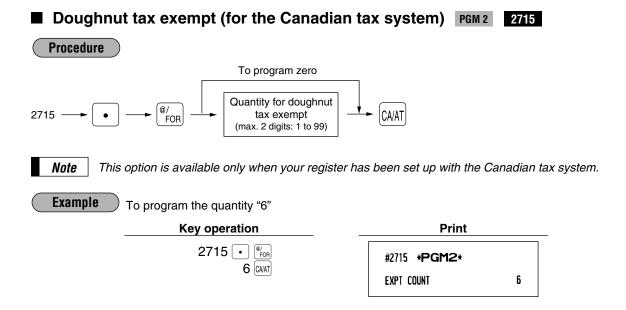
*A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4".



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



- If you make an incorrect entry before pressing the third \mathbb{F}_{FOR} key in programming a tax rate, cancel it with the CL key; and if you make an error after pressing the third \mathbb{F}_{FOR} key, cancel it with the STL 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.



4 Programming for departments

Your machine is equipped with 20 (ER-A520)/10 (ER-A530) 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 (0 thru 9, 0: not used)

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 CHART 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.

- Normal department
- 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.

- Bottle Return (BR)
- · Gas department

The gas department enables you calculate the quantity of gas sold in gallon by using a preset unit price when the sale amount of gas is entered. (quantity of gas = sales amount entered / preset unit price) Also gas discount can be automatically applied to the sales. (discount amount = total amount of gas x reduced unit price for each media; cash/check/charge)



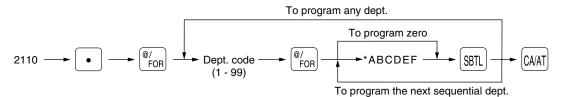
If your register has not been set for "Bottle return, Hash and gas dept." by your dealer, you cannot program the department for those operations. So contact your dealer if you need them.

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



Item:		Selection:	Entry:
Α	Item validation printing	Non-compulsory	0
		Compulsory	1
В	Tare table number		0 thru 9 (0: not used)
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
		Gas department	3
F	Type of unit price entry	Inhibit department key	0
		Open only	1
		Preset only	2
		Open and preset	3

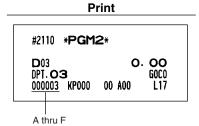
Example

Programming for department 3

Enter ABCDEF=000003 for department 3.

Key operation





■ 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

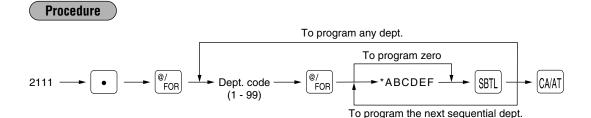
· Assign a food stamp status (food stamp eligible or food stamp ineligible) to each department.

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.



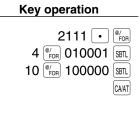
Tax 4 is prohibited if you use the food stamp function.

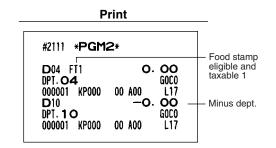


* Iten	n:	Selection:	Entry:	
Α	Sign (+/-)	Plus	0	
		Minus	1	
В	Food stamp status	Ineligible	0	
		Eligible	1	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	
Ε	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	

Example

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



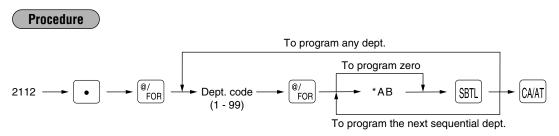


Note

When you program the last dept. code you are allowed to program, the programming sequence will be complete with a press of the [BR] key.

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

You can set limit 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:

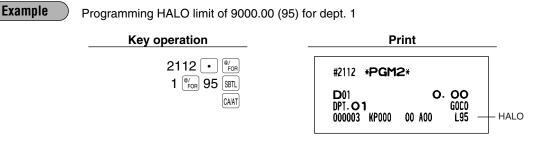


"**AB**" is the same as $\mathbf{A} \times 10^{\mathbf{B}}$.

A: Significant digit (0 through 9)

B: Number of zeros to follow significant digit (0 through 7)

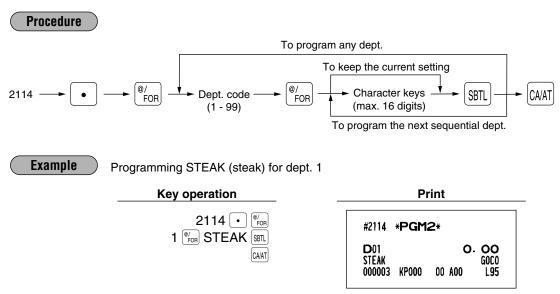
For example, presetting 13 (\$10.00) here means that amount entries of up to \$10.00 are allowed in the REG mode. When you preset 17, however, the upper limit amount is 99999.99.



Item label PGM 2 2114

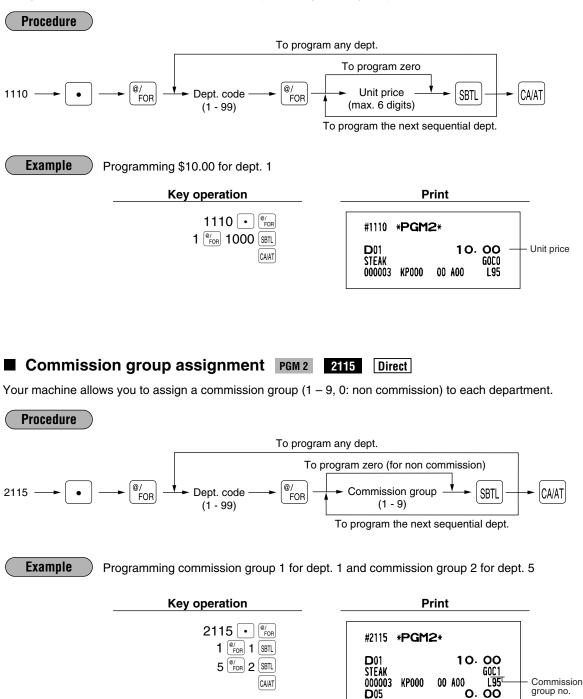
You can program a maximum of 16 characters (item label) for each department.

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



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.



DPT. 05

000001 KP000

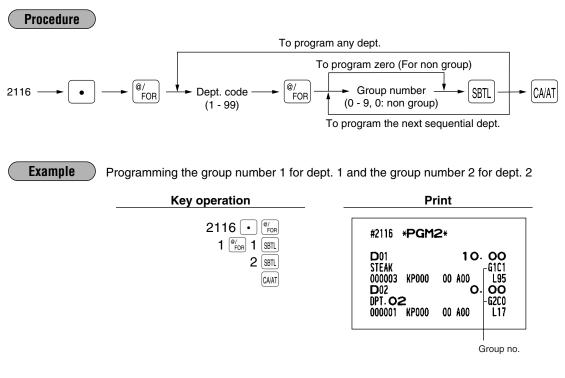
GOC2

117

00 A00

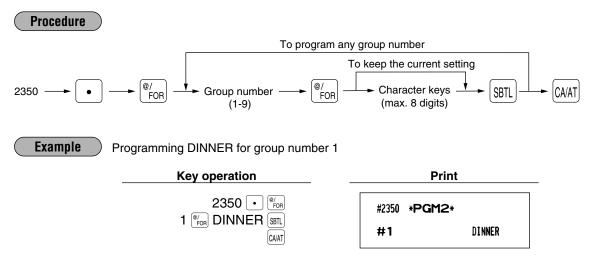
Group number PGM 2 2116 Direct

You can assign departments to a maximum of 9 groups (1 thru 9). This programming enables you to take the group department sales reports.



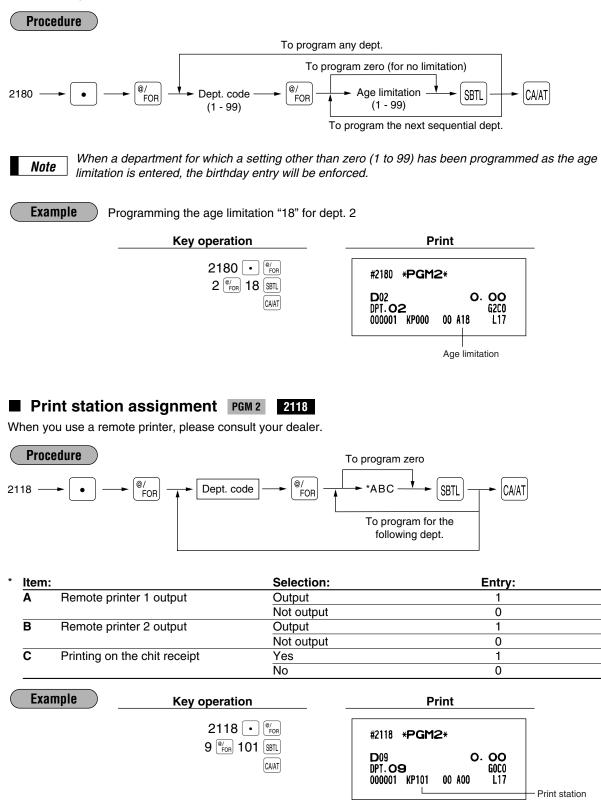
Group text PGM 2 2350

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



Age limitation PGM 2 2180

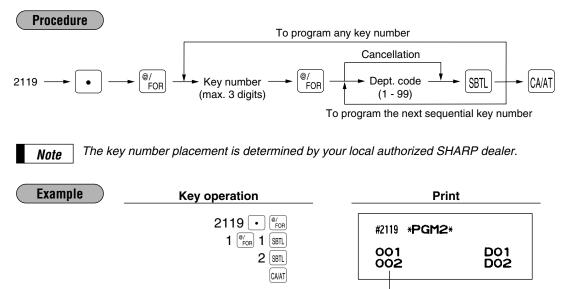
If an item sold is not allowed to be sold to certain aged persons by law, program the age limitation for the corresponding department.



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.

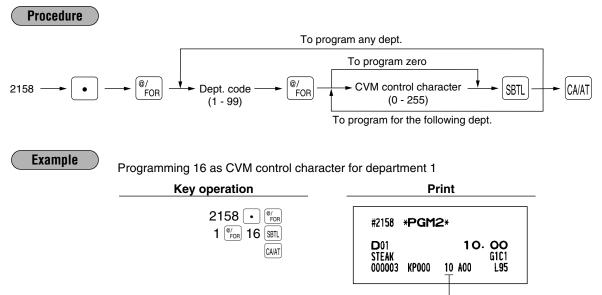
For key number positions, refer to section "3 Standard key number layout" in chapter "KEYBOARD".



Key no.

Color Video Monitor (CVM) control character PGM 2 2158

This programming enables you to assign each department with a number that can be used as a CVM control character. This number is converted to a two-digit character code that is transmitted for use with a CVM device.



Character code converted

5 PLU/UPC programming

The cash register can deal PLU codes and UPC codes. A PLU code consist of 5-digits number and leading zeros can be applied to the PLU code. 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 We key.

UPC codes are basically codes for barcode reading. With regard to the UPC codes available for this register, please refer to "Universal Product Code(UPC) or European Article Number(EAN)" in this chapter. For UPC codes, the cash register has a UPC master file as a standard and a dynamic UPC file as an option. Normally you use the UPC master file for saving the data programmed for UPC codes by using job numbers. For the data entered in the UPC learning function mode, which is details in "UPC learning function", is stored in the dynamic UPC file if your register has (if not, the register stores the data in the UPC master file). With regard to data stored in the dynamic UPC file, you can edit the data or if necessary you can create programming data in the dynamic file. The data in the dynamic UPC file can download into the UPC master file. The phrase of "Dynamic UPC file" is indicated at the right side of job codes for the programming jobs whose

data is stored in the dynamic UPC file.

Your machine provides 2000 PLU/UPC codes as a standard, and a maximum of 15000 PLU/UPC codes. Each PLU/UPC allows 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.

When your register is allowed to enter multiple prices (up to 6), you can program 6 different prices for one PLU/UPC code.

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 PLU key without any PLU code entry, or by scanning the UPC code).
- If "Open only" is selected, the *PLU* key must be pressed after the price entry followed by the PLU code and the *PLU* (, 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:

Si	gn	- Function of PLU/UPC	
Dept.	PLU/UPC		
+	+	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)

PLU/UPC group (1 to 99) and group text (max. 8 characters)

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

Condiment table (max. 99 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).

Print station

Delete period for non-accessed UPC codes

Non-PLU code format

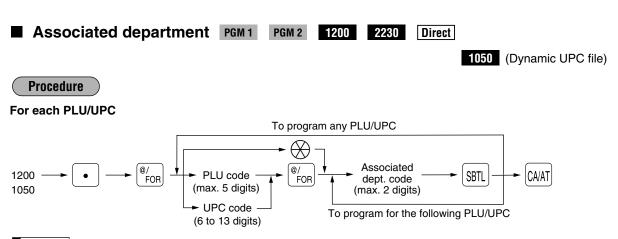
PLU level assignment and direct PLU key positioning

Stock quantity

Item label for remote printer (max. 12 characters)

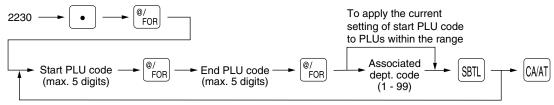
Control character for color video monitor

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.



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

For a range of PLUs



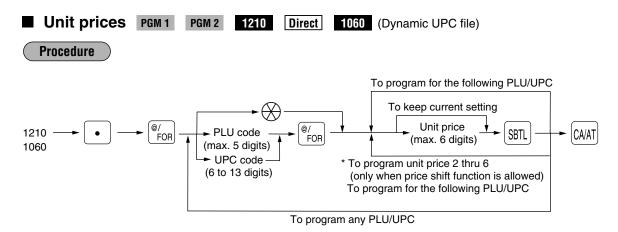
Note PLU codes must have already been defined. If not, an error message "NO RECORD" will appear on the display.

Example	Programming for PLU 1 for "Associate department 2"	
For each PI II/IIP	C Key operation	

For each PLU/UPC	Key operation	Print	
For each PLU/UPC	Key operation 1200 • [@] /cor 1 [@] /cor CAAT	#1200 *PGM2* P00001 (O2) /00 PLU00001 O. OO PLU00001 O. OO	Dept. code
		PLU00001 O. OO KP000 G00 00 00 00 1000002 00 A00 M00 C00 PLU00001 S 0.000 00 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001	

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

For a range of PLUs	Key operation	Print
	2230 • [@] / _{COR} 11 [@] / _{FOR} 20 [@] / _{FOR} 3 <u>SBTL</u> CAAAT	#2230 *PGM2* 00011- 00020 (O3)



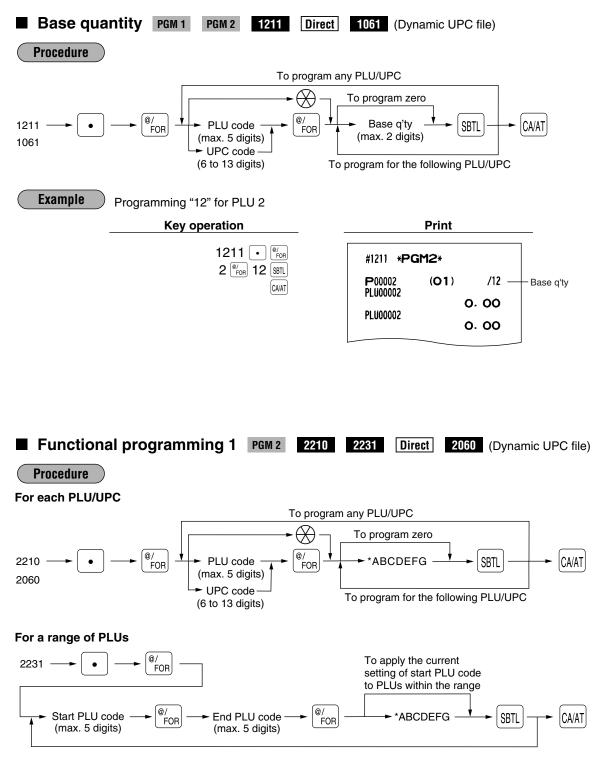
* In case that price shift function is allowed, the register prompts to enter a unit price for the following level by displaying "P2" thru "P6" on the display, and when a unit price of level 6 is entered, the register goes to the status for programming the following PLU/UPC. When you press the CMAT on the way of programming multiple prices for a PLU/UPC code, prices for the remained levels are kept unchanged.

In case that single price entry is allowed for a PLU/UPC code, the register goes to the status for programming the following 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, \$1.50, \$2.00, \$2.50, \$3.00, \$4.00" for price level 1 thru 6 of PLU1 Key operation Print 1210 • ^{@/}FOR #1210 *PGM2* 1 (^{@/}FOR) 125 (SBTL (02)/00 P00001 150 SBTL PLU00001 200 SBTL 1.25 -– Unit price PLU00001 250 SBTL 1.50 PLU00001 300 SBTL 2.00 400 SBTL PLU00001 2.50 CA/AT PLU00001 3.00 PLU00001 4.00 GOO OO OO CO KP000 1000002 00 A00 M00 C00 0.000 S PLU00001 PLU00001

> PLU00001 PLU00001 PLU00001 PLU00001



When new PLU codes are created in the range specified, the default values are applied to the programming items other than the items set in this programming.

Note

ltem:		Selection:	Entry:
Α	Delete method (for only UPC) For PLU, always enter 1.	Delete in non-accessed UPC deleting job (#105 in Z1 mode)	0
		Inhibit to delete in non-accessed UPC deleting job (#105 in Z1 mode)	1
В	Condiment type PLU (for only PLU)	Disable	0
	For UPC, always enter 0.	Enable	1
С	Condiment entry (for only PLU)	Allowed	0
	For UPC, always enter 0.	Compulsory	1
D	Price shift entry	Enable	0
		Inhibit	1
		Compulsory	2
Е	Tare table number	() thru 9 (0: Not used)
F	Scale entry	Inhibit	0
		Enable	1
		Compulsory	2
G	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 PL	U) 3
		Delete mode	4

_

Example To program ABCDEFG=1000003 for PLU1

For each PLU/UPC Key operation

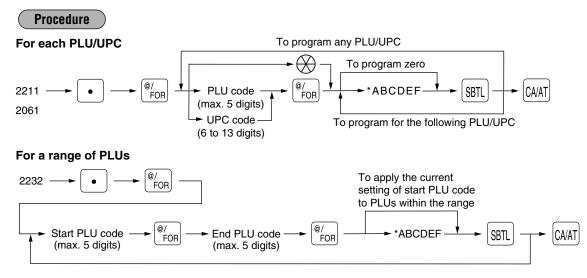
2210 • ^{@/}FOR 1 (#/ FOR 1000003 (SBTL CAVAT

Print	_
#2210 * PGM2 *	
P00001 (O2) /00 PLU00001	
1. 25	
PLU00001 1.50	
PLU00001 2. 00	
PLU00001 2. 50	
PLU00001	
3. OO PLU00001	
4.00 KP000 G00 00 00 C0 1000003 00 A00 M00 C00 S 0.000 PLU00001	— A thru G
PLU00001 PLU00001 PLU00001 PLU00001 PLU00001	

To program ABCDEFG=1000003 for PLU11 thru 20

For a range Key operation Print of PLUs 2231 • ^{@/}_{FOR} #2231 *PGM2* 11 ^{@/} FOR 20 ^{@/} FOR 00011-00020 100003 SBTL 1000003 CA/AT

Functional programming 2 PGM 2 2211 2232



Note

For a range of PLUs: PLU codes must have already been defined. If not, an error message "NO RECORD" will appear on the display.

Direct 2061 (Dynamic UPC file)

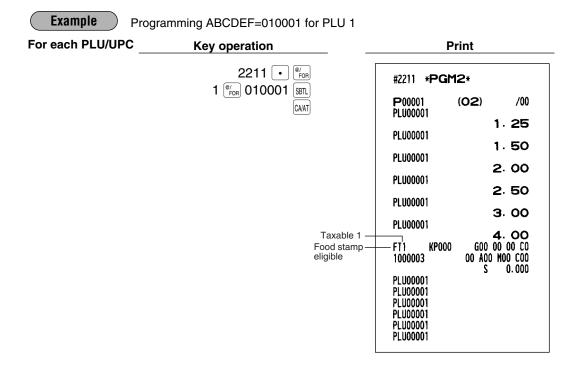
Item	1:	Selection:	Entry:	
A	Sign (+/-)	Plus	0	
		Minus	1	
В	Food stamp status	Ineligible	0	
		Eligible	1	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	
Е	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	



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.

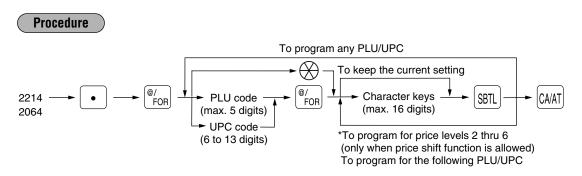


Programming the range PLU 11 thru 20 for ABCDEF=000001

For a range of PLUs	Key operation	Print
	2232 • [@] / _{FOR} 11 [@] / _{FOR} 20 [@] / _{FOR} 000001 <u>SBTL</u> CA/AT	#2232 * PGM2 * 00011- 00020 T1

Item label PGM 2 2214 2064 (Dynamic UPC file)

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".



* In case that price shift function is allowed, the register prompts to enter an item level for the following level by displaying "P2" thru "P6" on the display, and when an item level of level 6 is entered, the register goes to the status for programming the following PLU/UPC. You must enter texts for all price levels. In case that single price entry is allowed for a PLU/UPC code, the register goes to the status for programming the following PLU/UPC.

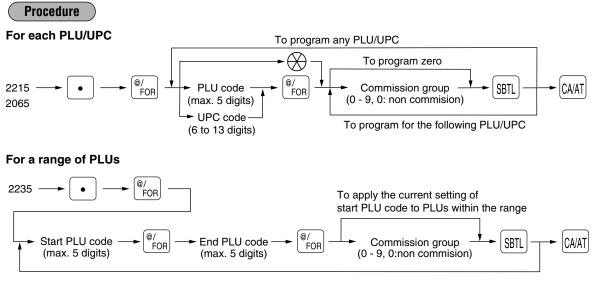
Key operation	Print
2214 • ^{@/} FOR 1 ^{@/} FOR MILK_1 SBTL	#2214 * PGM2 *
MILK_2 ST MILK_3 ST MILK_4 ST MILK_5 ST MILK_6 ST CAAT	P00001 (O2) /00 MILK_1 1.25 MILK_2 1.50 MILK_3 2.00 MILK_4 2.50 MILK_5 3.00 MILK_6 4.00 FT1 KP000 600 00 00 00 00 1000003 00 A00 M00 C00 S 0.000 PLU00001 PLU00001 PLU00001 PLU00001

6

Exar

Commission groups PGM 2 2215 2235 Direct 2065 (Dynamic UPC file)

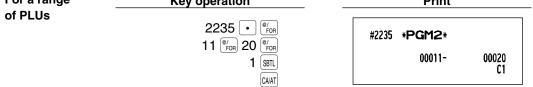
You can assign PLUs/UPCs to commission groups (1 to 9).



Note For a range of PLUs: PLU codes must have already been defined. If not, an error message "NO RECORD" will appear on the display.

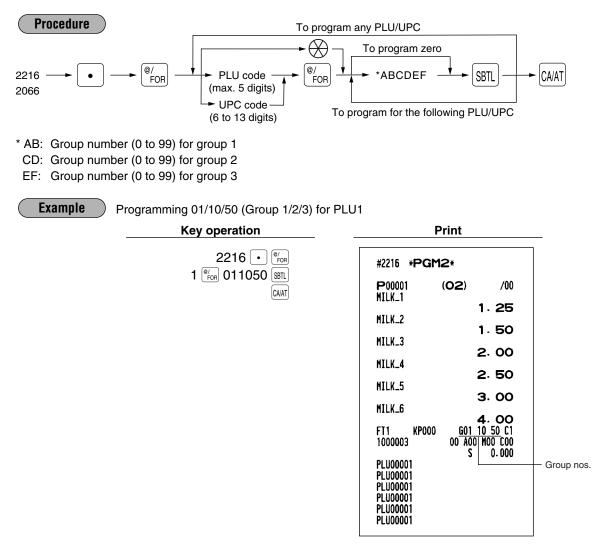
Example) Programming the commission group 1 for PLU 1

For each PLU/L	JPC Key operation	Print
	2215 • (#/ FOR 1 (#/ FOR) 1 (SBTL)	#2215 * PGM2 *
	CAVAT	P00001 (O2) /00 MILK_1 1 0 -
		1.25 MILK_2
		1.50 MILK_3 2.00
		MILK_4 2. 50
		MILK_5 3. OO
		MILK_6 4. 00
		FT1 KP000 G00 00 00 C1 Commission 1000003 00 A00 M00 C00 group no.
		S 0.000 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001 PLU00001
	Programming all of PLU 11 thru 20 for the cor	nmission group 1
For a range	Key operation	Print



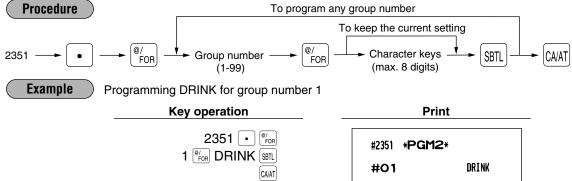
Group number PGM 2 2216 2066 (Dynamic UPC file)

You can assign PLU/UPCs to a maximum of 99 groups. Each PLU/UPC can belong to a maximum of three groups.



Group text PGM 2 2351

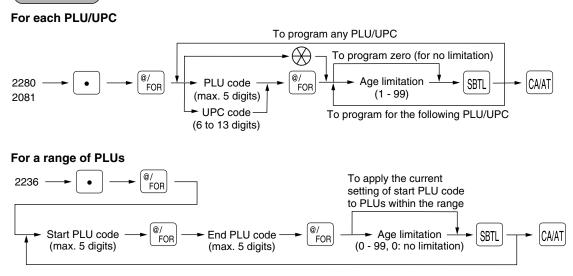
You can program a maximum of 8 characters (group name) for each PLU/UPC group. Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".



Age limitation PGM 2 2280 2236 2081 (Dynamic UPC file)

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



• PLU codes must have already been defined. If not, an error message "NO RECORD" will appear on the display.

• 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

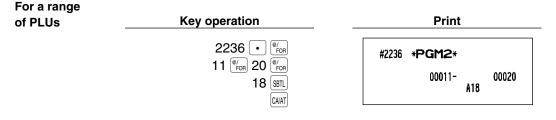
Key operation

For each PLU/UPC

2280 2 ^{@/} FOR	• 18	@/ FOR SBTL
		CA/AT

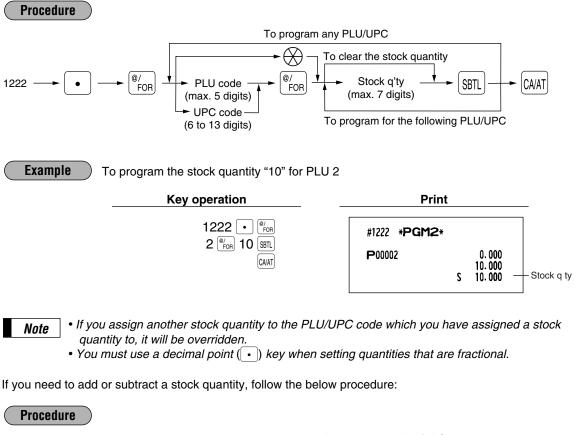
	Print		_
#2280 * PG I	M2*		
P00002 PLU00002	(01)	/12	
		0.00	
PLU00002		0. 00	
PLU00002		0. 00	
PLU00002			
PLU00002		0.00	
		0.00	
PLU00002		0. 00	
KP000 1000002		00 00 CO MOO COO	
	00 <u>x18</u> S	0.000	
PLU00002 PLU00002	L		Age limitation
PLU00002			
PLU00002 PLU00002			
PL00002			
1			1

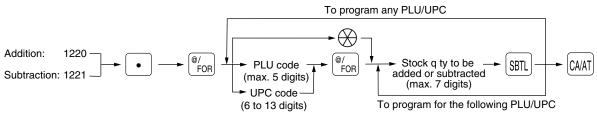
Programming the PLU 11 thru 20 for the age limitation "18"



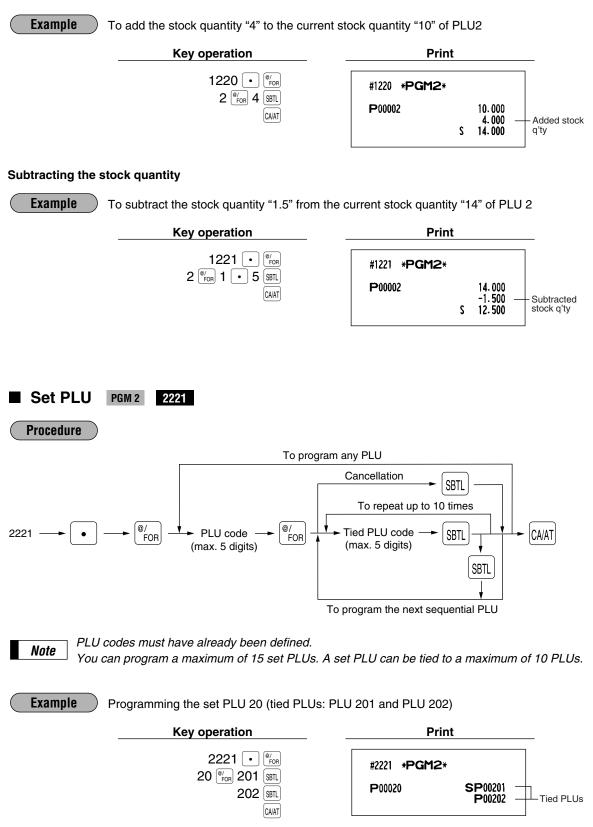
Stock quantity PGM 1 PGM 2 1222 1220 1221

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:





Adding the stock quantity



Mix-and-match table PGM 2 2217 2225 2067 (Dynamic UPC file)

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 99 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>93></th></sale<></th></sal<></th></sale<>	e 1>	<sal< th=""><th>e 2></th><th></th><th><sale< th=""><th>93></th></sale<></th></sal<>	e 2>		<sale< th=""><th>93></th></sale<>	93>
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

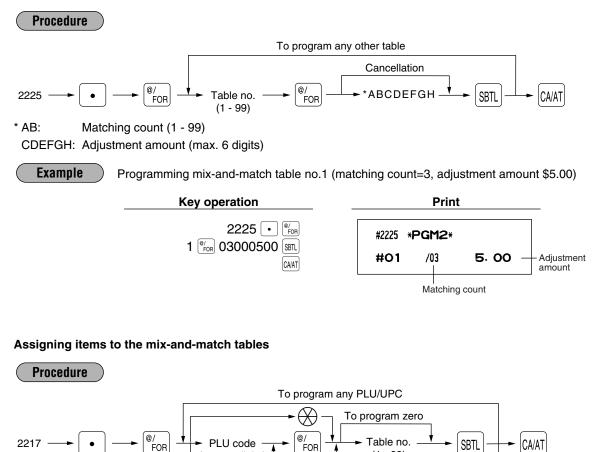
Programming of matching count and adjustment amount

FOR

(max. 5 digits)

UPC code

(6 to 13 digits)



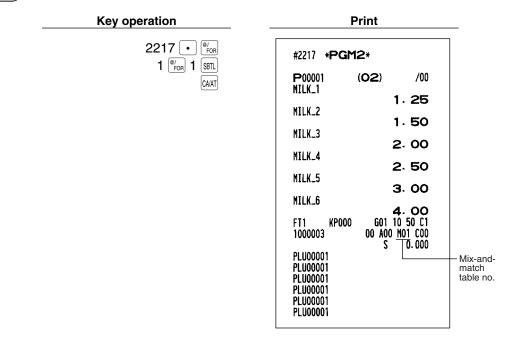
To program for the following PLU/UPC

(1 - 99)

2067

Example

Programming mix-and-match table no.1 for PLU 1



PLU condiment table PGM 2 2222 2223

The "condiment entry" is intended to guide the operator in making menu entries which require special cooking instructions. For example, a cashier/server can make such entries as "garnishing potato," "with salad," and "grilling steak rate." When a cashier/server enters a menu-item PLU to which PLUs for the condiment entry have been assigned, these orders (such as "garnishing potato") will be printed on the receipt and conveyed to the kitchen.

Before you program for the condiment entry, prepare a condiment table. The following shows an example of a condiment table:

Table PLU codes for condiment entry (programmed text) number Message text 23 25 27 02 01 (HOWCOOK?) (RARE) (MED.RARE) (WELLDONE) 44 Message text 45 02 (WITH?) (SALAD) (FRUITS) Condiment tables (Up to 99) Message text 33 37 38 99 04 (POTATO?) (P.CHIPS) (MASHED.P) (BAKED.P) Message text 63 65 67 99 (A.JUICE) (DRINK?) (TEA) (MILK) PLUs (Up to 15 for a table) Next condiment

table number

Condiment table

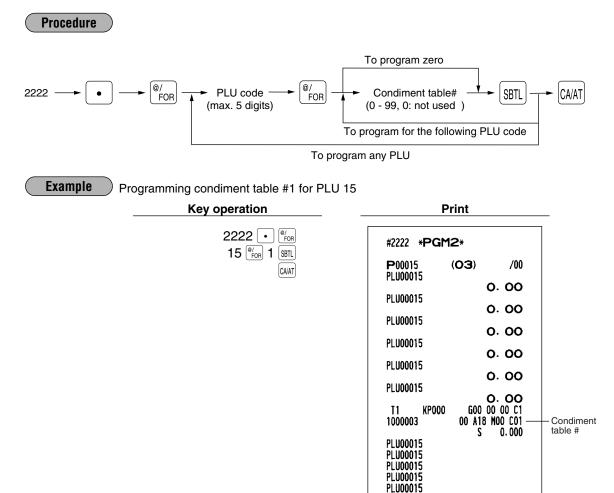
The condiment table should contain the following:

Condiment table: The condiment table is a group of condiment PLUs, which is assigned to each menuitem PLU. A table consists of a message text and up to 15 PLUs. Also, you can assign the next condiment table number to a condiment table to link them.

The message text is used for displaying a prompting message. The PLU is used for the special order setting. For example, when a server enters a menu-item PLU, a display message programmed for the message text such as "HOWCOOK?." will appear. Then specify one of the PLU programmed for text such as "RARE."

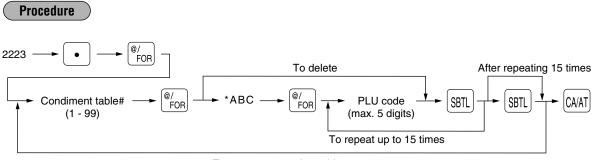
Table number: The table number is intended to identify each condiment table.

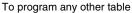




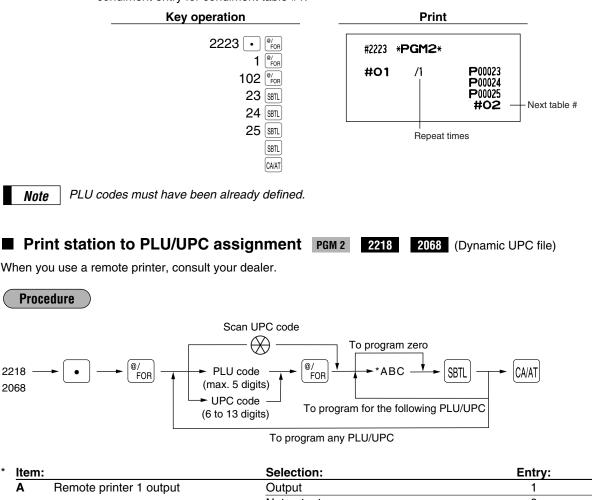
PLU00015

Assigning PLUs for condiment entry

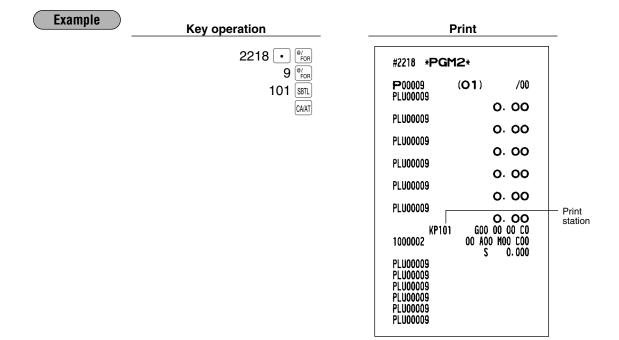




- *A: Repeat times (1 to 9)
- BC: Next table# (00 to 99: 00: not applied)
 - **Example** Programming repeat time 1 and next condiment table #2 and PLU 23/24/25 for PLUs for condiment entry for condiment table #1.

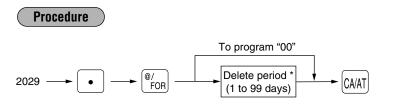


		Not output	0
В	Remote printer 2 output	Output	1
		Not output	0
С	Printing on the chit receipt	Yes	1
		No	0
			1.0



■ 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).

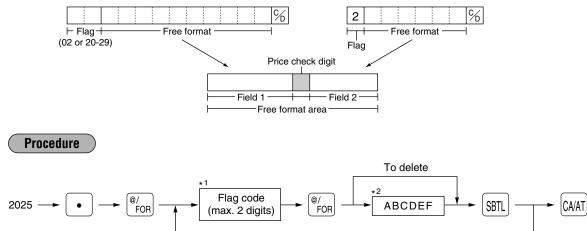


* When you select "00" for the period, no UPC code is deleted by the non-accessed UPC deleting job.

Example		
_	Key operation	Print
	2029 • ^{@/} FOR 60 CAAT	#2029 * PGM2 * 60

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:

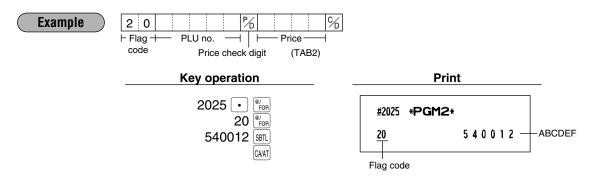


*1 Flag code: 2, 02, 20 - 29

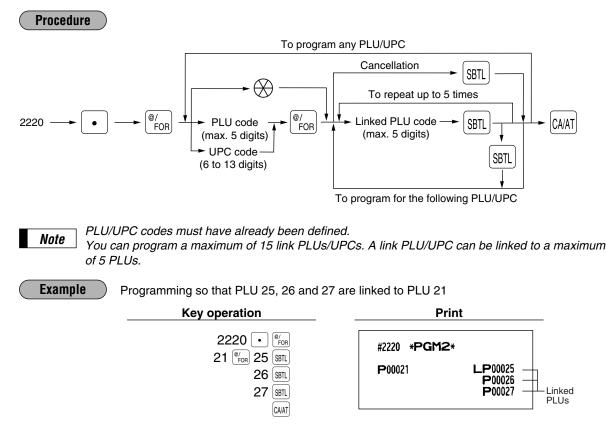
*2	Item:

² 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
Е	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.

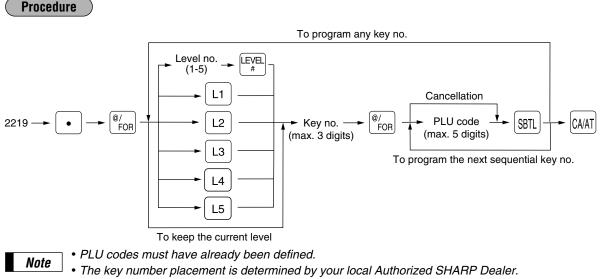


Link PLU/UPC link PGM 2 2220

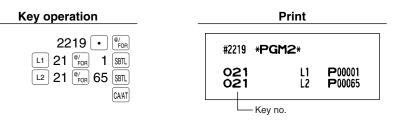


Programming of PLU levels and direct PLU keys PGM 2 2219

For key no. position, refer to section "3 Standard key number layout" in chapter "KEYBOARD".

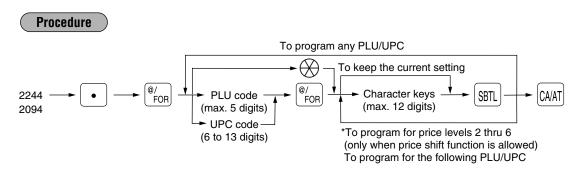


Example Programming of PLU 1 (level 1) and PLU 65 (level 2) are assigned to key no. 21



Item label for remote printer PGM 2 2244 2094 (Dynamic UPC file)

You can program a maximum 12 characters (item label) for each PLU/UPC which are printed by remote printers. Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING".



* In case that price shift function is allowed, the register prompts to enter a remote printer item level for the following level by displaying "P2" thru "P6" on the display, and when an item level of level 6 is entered, the register goes to the status for programming the following PLU/UPC. You must enter texts for all price levels. In case that single price entry is allowed for a PLU/UPC code, the register goes to the status for programming the following PLU/UPC.

Example

Programming "MILK_K1, MILK_K2, MILK_K3, MILK_K4, MILK_K5, MILK_K6" for price levels 1 thru 6 of PLU1

Key operation	Print
Key operation 2244 ● #or 1 ● #or MILK_K1 STL MILK_K3 STL MILK_K3 STL MILK_K5 STL MILK_K6 STL WILK_K6 STL	#2244 *PGM2* P00001 (O2) /00 MILK_1 1.25 NILK_2 1.50 MILK_3 2.00 MILK_4 2.50 MILK_5 3.00 MILK_6 4.00 FT1 KP000 G01 10 50 C1 1000003 00 A00 M01 C00 S MILK_K1 MILK_K2 MILK_K3 MILK_K3 MILK_K4 S

Color Video Monitor (CVM) control character PGM 2

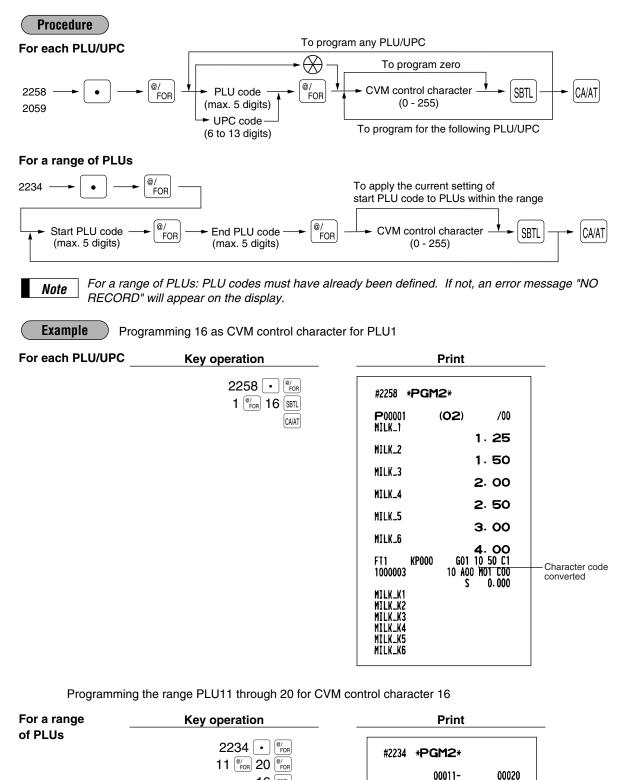
2059 (Dynamic UPC file)

2258

10

2234

This programming enables you to assign each PLU/UPC with a number that can be used as a CVM control character. This number is converted to a two-digit character code that is transmitted for use with a CVM device.



16 SBTL

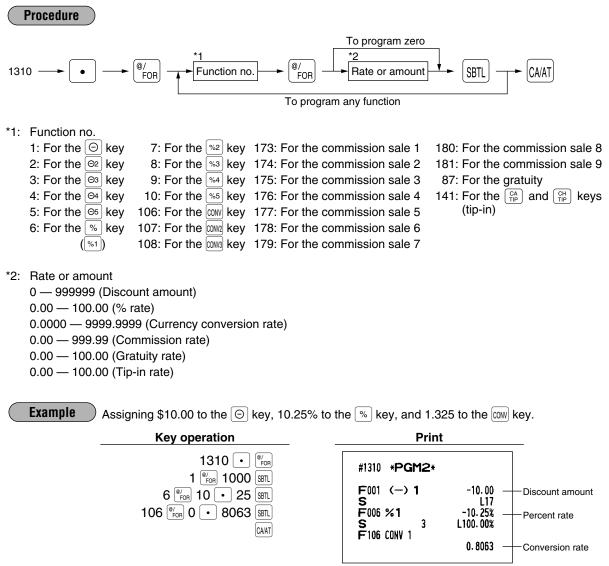
CA/AT

Programming for miscellaneous keys

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



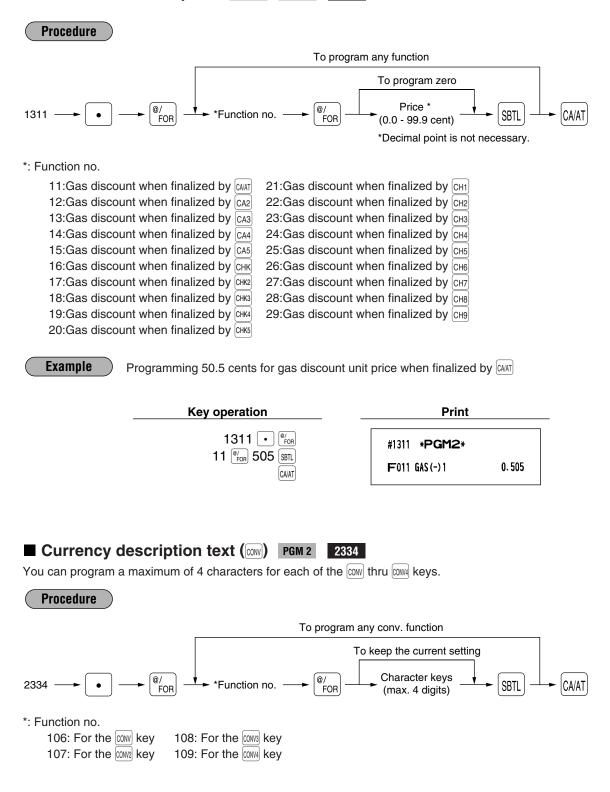
You can program percent rates, currency conversion rates, commission rate, gratuity rate, tip-in rate and discount amount.

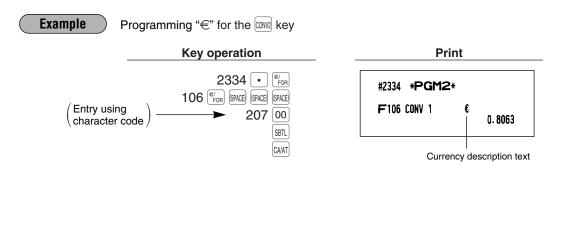


Note

You must use a decimal point when setting percentage rates that are fractional.
When amount entry is selected for tip-in entry on the programming job #2616, you cannot program for function number 141.

Gas discount unit price PGM 1 PGM 2 1311





■ A limit amount (HALO) of entry (⊙, TAX (for manual tax), [♣], [♣], [₽], [₽]) 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 zero 2312 Function no. SBTL CA/AT FOR FOR To program any function *1: Function no. 1: For the Θ key 53: For the TAX key 141:For the 😭 and 🛗 key 2: For the Θ^2 key 95: For the RA key 3: For the ₃ key 96: For the RA2 key 4: For the ^{Θ₄} key 97: For the PO key 5: For the 🕞 key 98: For the PO2 key *2: AB is the same as A x 10^B. A: Significant digit (0 through 9) B: Number of zeros to follow significant digit 0 through 7 (for the \bigcirc) thru \bigcirc , (TAX), \bigcirc and \bigcirc 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 , TAX, \bigcirc and \bigcirc and \bigcirc keys). You can set up AB = 18 for no limitation (for the RA, RA2, PO, and PO2 keys).

Example Programming 13 for the \bigcirc key.	
Key operation	Print
2312 • ^{@/} FOR 1 ^{@/} FOR 13 SBTL	#2312 * PGM2 *
	F001 (-) 1 -10.00 S L13

Example

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

Direct

+/- 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.

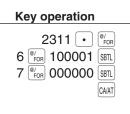


Tax 4 is prohibited if you use the food stamp function.

Proc	edure		
		To program any function	
2311 —	→ ● → ^{@/} FOR → ^{*1} Funct	tion no. $\longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \xrightarrow{*^2} ABCD$	
1: 2: 3: 4:	For the For	2 key 3 key 4 key	uity
*2: Iten	n:	Selection:	Entry:
*2: Iten A	n: (+/-) sign	Selection: Plus	Entry: 0
		Plus	0
Α	(+/-) sign	Plus Minus	0 1
Α	(+/-) sign	Plus Minus Ineligible	0 1 0
AB	(+/-) sign Food stamp status	Plus Minus Ineligible Eligible Non-taxable Taxable	0 1 0 1
AB	(+/-) sign Food stamp status	Plus Minus Ineligible Eligible Non-taxable	0 1 0 1 0 1 0
A B C	(+/-) sign Food stamp status Tax 4 status	Plus Minus Ineligible Eligible Non-taxable Taxable	0 1 0 1 0 1 0 1
A B C	(+/-) sign Food stamp status Tax 4 status	Plus Minus Ineligible Eligible Non-taxable Taxable Non-taxable	0 1 0 1 0 1 0 1 0
A B C D	(+/-) sign Food stamp status Tax 4 status Tax 3 status	Plus Minus Ineligible Eligible Non-taxable Taxable Non-taxable Taxable Taxable	0 1 0 1 0 1 0 1 0 1 1
A B C D	(+/-) sign Food stamp status Tax 4 status Tax 3 status	Plus Minus Ineligible Eligible Non-taxable Taxable Non-taxable Taxable Non-taxable Non-taxable	0 1 0 1 0 1 0 1 0 1 0 1 0
A B C D E	(+/-) sign Food stamp status Tax 4 status Tax 3 status Tax 2 status	Plus Minus Ineligible Eligible Non-taxable Taxable Taxable Taxable Non-taxable Taxable Taxable	0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1

Example

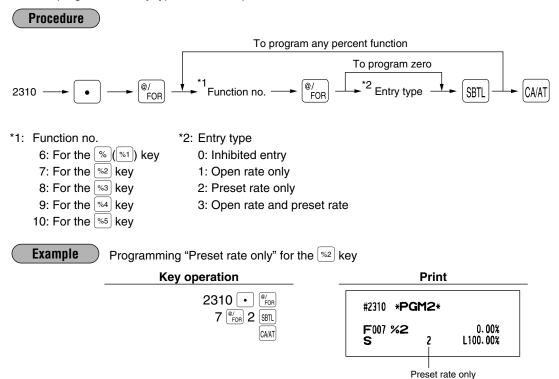
Programming ABCDEF=100001 for the 🔞 key and ABCDEF=000000 for the 😡 key



Print	
M2∗	
n	-10.25% L100.00%
3	0.00%
3	L100.00%
	M2 ∗ 3

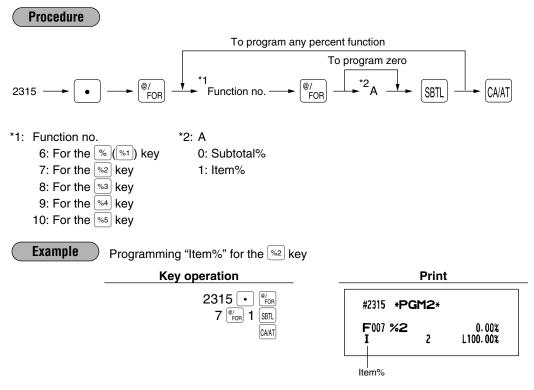
Percent entry type (%) PGM 2 2310

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



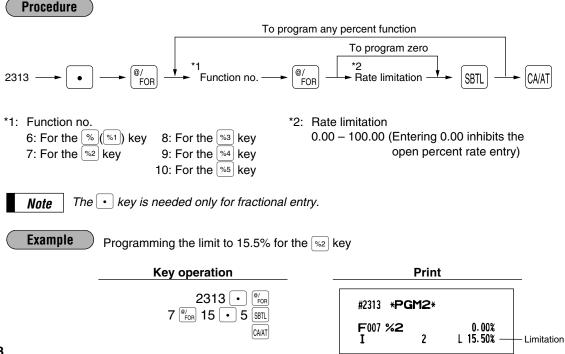
■ Item% or subtotal% selection ([∞]) PGM 2 2315 Direct

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



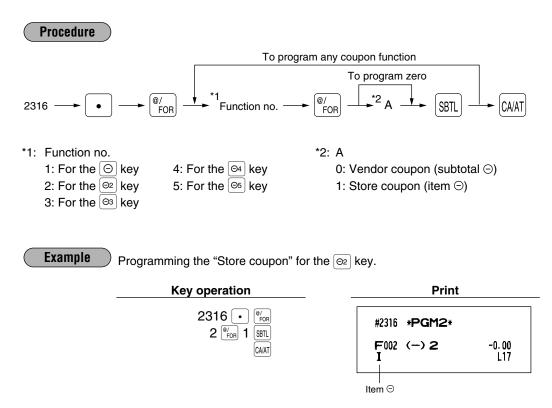
Percent rate limitation (%) PGM 2 2313

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.



■ 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.



Programming for the media keys

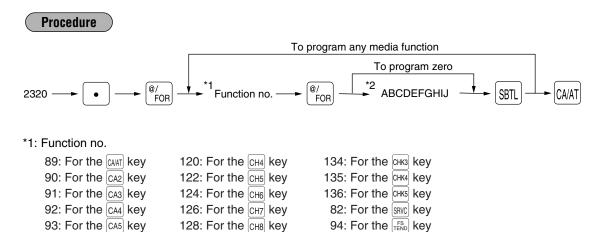
■ Functional programming 1 PGM 2 2320 Direct

You can set each media for:

CLU/DRI LL/Menuel DR/CR entry compulsory
GLU/PBLU/Manual PB/CB entry compulsory
Short amount tender entry
Retention of closed GLU/PBLU file
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 CHAT, CA2 thru CA5, CHK, and CHK2 thru CHK5 keys. You may select amount tendered compulsory or inhibited for the CH1 thru CH9 keys.



- 114: For the CH1 key
 130: For the CH9 key

 116: For the CH2 key
 132: For the CHK key

 118: For the CH3 key
 133: For the CHK key
 - ey .

238: For the FINAL key

Item:		Selection:	Entry:	
Α	GLU/PBLU/Manual PB/CB entry	Enable	0	
		Inhibit	1	
		Compulsory	2	
В	Short amount tender entry	Enable	0	
		Disable	1	
С	Retention of closed GLU/PBLU file	No	0	
		Yes	1	
D	Bill (slip) printing	Non-compulsory	0	
		Compulsory	1	
Е	Footer printing on receipt	No	0	
		Yes	1	
F	Non-add code entry	Non-compulsory	0	
		Compulsory	1	
G	Change enable (over tender enable)	Enable	0	
		Disable	1	
Н	Validation printing	Non-compulsory	0	
		Compulsory	1	
I	Drawer opening	Yes	0	
		No	1	
J	Amount tendered operation	Optional amount tendered for cash or check	0	
		Inhibit amount tendered for charge	0	
		Compulsory amount tendered	1	

Note

• For the SRC or FINL key, always enter 0 as A thru C and E thru J.

• For the $\overline{\mathbb{T}}$ key, always enter 0 as B, G, and J.

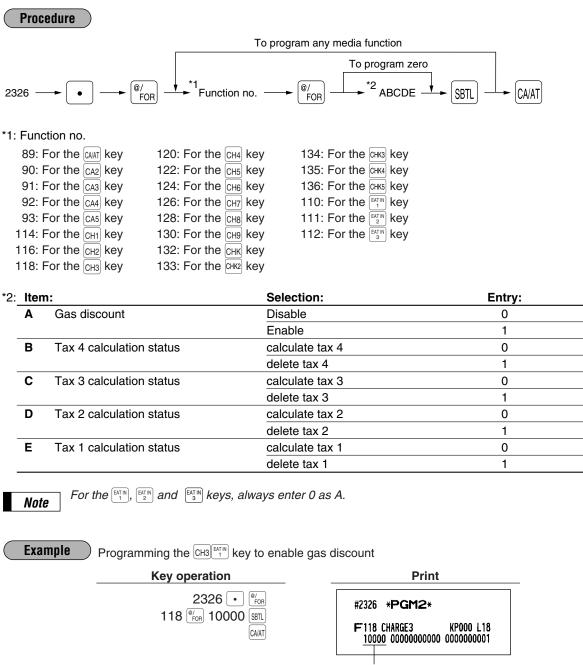
Example

Programming of the CH3 key for ABCDEFGHIJ=000000001

	Print		
#2320	*PGM2*		
	CHARGE3 0 0000000000		0 L18 000001
		A ti	hru J

Functional programming 2 PGM 2 2326

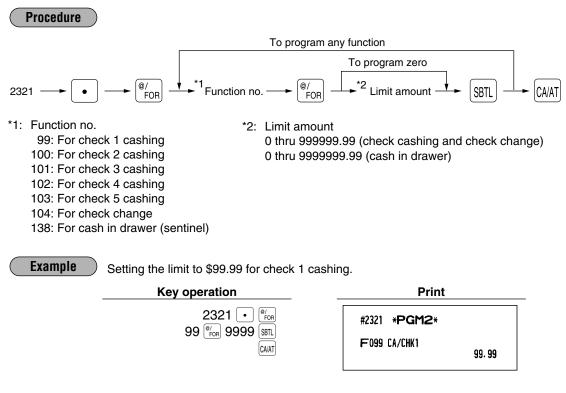
You can program each media key for gas discount availability and tax status (tax 1 thru 4).



A thru E

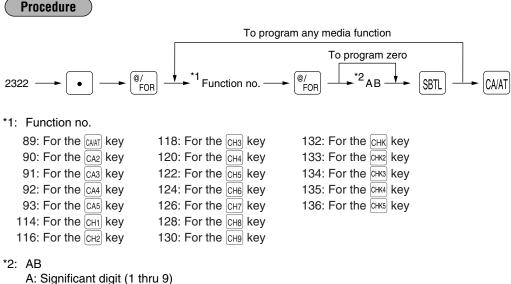
High amount lockout (HALO) for check cashing, check change, and cash in drawer PGM 2 2321

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



■ 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:



B: Number of zeros to follow significant digit (0 thru 8) You can set up AB = 18 for no limitation.

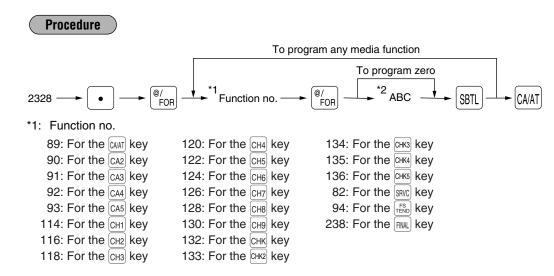
Example

Setting the HALO limit to \$1000.00 (15) for the CH3 key



Print station assignment PGM 2 2328

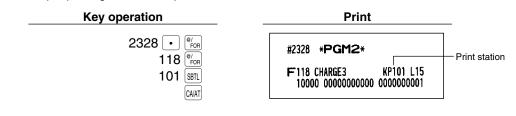
When you use a remote printer, consult your dealer.



*2:	Iten	n:	Selection:	Entry:
-	Α	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

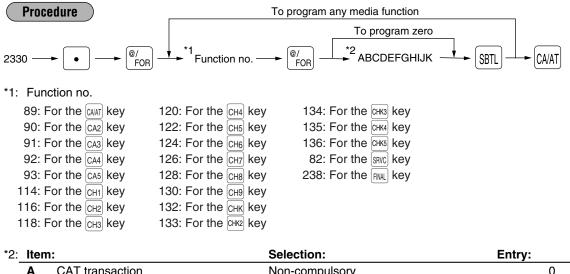
Example

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



CAT programming PGM 2 2330

When you use a credit card authorization terminal, please consult your authorized SHARP dealer.



Α	CAT transaction	Non-compulsory	0
		Compulsory	1
В	CAT action	POST-AUTH	0
		DIAL	1
		Authorization only	2
С	CAT type	CREDIT	0
		DEBIT	1
		CHECK	2
D	Card number printing	Yes	0
		No	1
Е	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	Always enter 0.		0
I	Tip and total amount printing on	Yes	0
	authorization receipt	No	1
J	Receipt and authorization receipt	Yes	0
	printing when the CAT entry is made	No	1
	at receipt OFF status		
κ	Number of CAT authorization receipt		0 to 9

Number of CAT authorization receipt

Even when 0 is set, 1 receipt is issued.

Example	Programming of the CH3 key for ABC	DEFGHIJK = 00000000000.
	Key operation	Print

2330 [•] @/ FOR 118 @/ FOR 0000000000 [SBTL] CA/AT

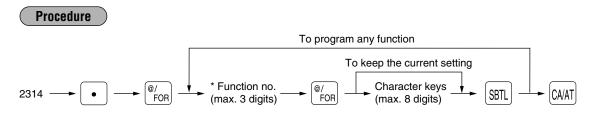
Print
#2330 * PGM2 *
F118 CARD KP101 L15 10000 <u>00000000000</u> 000000001

A thru K

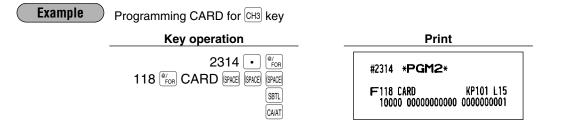
8 Programming of function text

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".



* Function no.: See "List of function texts" shown below (until function no. 289).



List of function texts

Function no.	Key or function	In default of proramming	Function no.	Key or function	In default of proramming
1	⊖1	(-) 1	17	Gas discount for check 2	GAS (–)7
2	⊝2	(-) 2	18	Gas discount for check 3	GAS (–)8
3	⊖ 3	(-) 3	19	Gas discount for check 4	GAS (–)9
4	⊖4	(-) 4	20	Gas discount for check 5	GAS (–)10
5	⊖5	(-) 5	21	Gas discount for charge 1	GAS (–)11
6	%1	% 1	22	Gas discount for charge 2	GAS (–)12
7	%2	% 2	23	Gas discount for charge 3	GAS (–)13
8	%3	% 3	24	Gas discount for charge 4	GAS (–)14
9	%4	% 4	25	Gas discount for charge 5	GAS (–)15
10	%5	% 5	26	Gas discount for charge 6	GAS (–)16
11	Gas discount for cash 1	GAS (–)1	27	Gas discount for charge 7	GAS (–)17
12	Gas discount for cash 2	GAS (–)2	28	Gas discount for charge 8	GAS (–)18
13	Gas discount for cash 3	GAS (–)3	29	Gas discount for charge 9	GAS (–)19
14	Gas discount for cash 4	GAS (–)4	30	Net sales tota	NET1
15	Gas discount for cash 5	GAS (–)5	31	Net taxable 1 subtotal	TAX1 ST
16	Gas discount for check 1	GAS (–)6	32	Gross tax 1 total	GRS TAX1

Function no.	Key or function	In default of proramming	Function no.	Key or function	In default of proramming
33	Tax 1 total of refund entries	RFD TAX1	80	Transfer in	TRAN.IN
34	Net tax 1 total	TAX1	81	PBAL	***PBAL
35	Exempt tax 1	TX1 EXPT	82	Service	SERVICE
36	Net taxable 2 subtotal	TAX2 ST	83	Deposit	DEPOSIT
37	Gross tax 2 total	GRS TAX2	84	Deposit refund	DPST RF
38	Tax 2 total of refund entries	RFD TAX2	85	Cover count	COVER CT
39	Net tax 2 tota	TAX2	86	Customer counter	TRANS CT
40	Exempt tax 2	TX2 EXPT	87	Gratuity	GRATUITY
41	Net taxable 3 subtotal	TAX3 ST	88	Sales total	NET3
42	Gross tax 3 total	GRS TAX3	89	Cash	C ASH
43	Tax 3 total of refund entries	RFD TAX3	90	Cash 2	C ASH2
44	Net tax 3 total	TAX3	91	Cash 3	C ASH3
45	Exempt tax 3	TX3 EXPT	92	Cash 4	C ASH4
46	Net taxable 4 subtotal	TAX4 ST	93	Cash 5	C ASH5
47	Gross tax 4 total	GRS TAX4	94	Food stamp sales	FSSALE
48	Tax 4 total of refund entries	RFD TAX4	95	RA	***RA
49	Net tax 4 total	TAX4	96	RA2	***RA2
50	Exempt tax 4	TX4 EXPT	97	PO	***P0
51	Gross manual tax total	GRS MTAX	98	PO2	***PO2
52	Refund manual tax total	RFD MTAX	99	Check cashing 1	CA/CHK1
53	Net manual tax total	M-TAX	100	Check cashing 2	CA/CHK2
*54	Exempt total from GST	GST EXPT	101	Check cashing 3	CA/CHK3
*55	PST total	PST TTL	102	Check cashing 4	CA/CHK4
*56	GST total	GST TTL	103	Check cashing 5	CA/CHK5
57	FS1 forgive	FS TX1	104	Check change	CHK/CG
58	FS2 forgive	FS TX2	105	Food stamp change	FS/CG
59	FS3 forgive	FS TX3	106	Currency conversion 1	CONV 1
60	Tax total	TTL TAX	107	Currency conversion 2	CONV 2
61	Net	NET	108	Currency conversion 3	CONV 3
62	Sales total including tax total	NET2	109	Currency conversion 4	CONV 4
63	Coupon-like PLU	CP PLU	110	Eat-in 1	EAT IN 1
64	Vender coupon UPC	V. CP UPC	111	Eat-in 2	EAT IN 2
65	Item void	VOID	112	Eat-in 3	EAT IN 3
66	Subtotal void	SBTL VD	113	Food stamp in drawer	FS/ID
67	Manager void	MGR VD	114	Gross charge 1	CHARGE1
68	Void mode	VOID	115	Refund charge 1	CHARGE1-
69	Refund	REFUND	116	Gross charge 2	CHARGE2
70	Return	RETURN	117	Refund charge 2	CHARGE2-
71	Hash item void	HASH VD	118	Gross charge 3	CHARGE3
72	Hash item refund	HASH RF	119	Refund charge 3	CHARGE3-
73	Hash item return	HASH RT	120	Gross charge 4	CHARGE4
74	No sale	NO SALE	121	Refund charge 4	CHARGE4-
75	Validation print counter	VP CNT	122	Gross charge 5	CHARGE5
76	Bill (slip) counter	BILL CNT	123	Refund charge 5	CHARGE5-
77	Drawer counter	DRW CNT	124	Gross charge 6	CHARGE6
78	Dray total counter	TRAY CNT	125	Refund charge 6	CHARGE6-
79	Transfer out	TRAN.OUT	126	Gross charge 7	CHARGE7

Function no.	Key or function	In default of proramming	Function no.	Key or function	In default of proramming
127	Refund charge 7	CHARGE7-	174	Commission sale 2	COM.SAL2
128	Gross charge 8	CHARGE8	175	Commission sale 3	COM.SAL3
129	Refund charge 8	CHARGE8-	176	Commission sale 4	COM.SAL4
130	Gross charge 9	CHARGE9	177	Commission sale 5	COM.SAL5
131	Refund charge 9	CHARGE9-	178	Commission sale 6	COM.SAL6
132	Check 1	CHECK1	179	Commission sale 7	COM.SAL7
133	Check 2	CHECK2	180	Commission sale 8	COM.SAL8
134	Check 3	CHECK3	181	Commission sale 9	COM.SAL9
135	Check 4	CHECK4	182	Non commission sale	NON COM.
136	Check 5	CHECK5	183	Commission amount 1	COM.AMT1
137	Cash + check in drawer	CA/CH ID	184	Commission amount 2	COM.AMT2
138	Cash in drawer	****CID	185	Commission amount 3	COM.AMT3
139	Cash tip	CA TIP	186	Commission amount 4	COM.AMT4
140	Charge tip	CH TIP	187	Commission amount 5	COM.AMT5
141	Tip-in (used only for PGM mode)	TIP IN	188	Commission amount 6	COM.AMT6
142	Tip paid	TIP PAID	189	Commission amount 7	COM.AMT7
*143	Exempt VAT	VAT EXPT	190	Commission amount 8	COM.AMT8
144	Sales average	AVE.	191	Commission amount 9	COM.AMT9
145	Price level 1 for PLU/UPC	LEVEL 1	192	Commission amount total	COM.TTL
146	Price level 2 for PLU/UPC	LEVEL 2	193	Waste (for PLU/UPC report)	WASTE
147	Price level 3 for PLU/UPC	LEVEL 3	194	Net sales (for PLU/UPC report)	NET SLS
148	Price level 4 for PLU/UPC	LEVEL 4	195	Net sales total (for PLU/UPC report)	NET TL
149	Price level 5 for PLU/UPC	LEVEL 5	196	Free GLU/PBLU (for GLU/PBLU report)	FREE GLU
150	Price level 6 for PLU/UPC	LEVEL 6	197	Closed check (for server report)	CLOSE CK
151	(+) Dept. total	*DEPT TL	198	Open check (for server report)	OPEN CK
152	(-) Dept. total	DEPT(-)	199	Percent of net sales (for server report)	(%)SALES
153	Hash (+) dept. total	*HASH TL	200	Cash/check is	CA/CH IS
154	Hash () dept. total	HASH(-)	201	Conversion1 is	CONV1 IS
155	(+) Bottle return total	*BTTL TL	202	Conversion2 is	CONV2 IS
156	(-) Bottle return total	BTTL(-)	203	Conversion3 is	CONV3 IS
157	Gas (+) dept. total	*GAS TL	204	CCD differ	CCD DIF.
158	Gas (-) dept. total	GAS(-)	205	CCD differ total	DIF. TL
159	Hash net total (for trans. report)		206	Subtotal	SUBTOTAL
160	Waste total (for PLU/trans. report)	WASTE TL	207	Merchandise subtotal	MDSE ST
161	Subtotal (-) total (for trans. report)	ST(-) TL	208	Tray subtotal	TRAY TL
162	Subtotal % tota (for trans. report)	ST% TL	209	Total	***TOTAL
163	Item (-) total (for trans. report)	(–) TL	210	Change	CHANGE
164	Item % total (for trans. report)	% TL	210	Food stamp subtotal	FS ST
165	Gas discount total (for trans. report)	GASDISTL	211	Food stamp tender	FS TEND
165	RA total (for trans. report)	RATL	212	Food stamp change	FSICG
167	PO total (for trans. report)	POTL	213		ITEMS
167	Check cashing total (for trans. report)	CA/CK TL	214	Items Copy receipt title	DEPT
169	Cash total (for trans. report)	CA/CK TL CASH TL	215	Group report title	GROUP
170			216		PLU/UPC
170	Check total (for trans. report)	CHECK TL CHR TL	217	PLU/UPC report title Stock report title	STOCK
	Charge total (for trans. report)				
172	Currency conversion total (for trans. report)	CONV TL	219	Zero sales report title	ZERO SAL
173	Commission sale 1	COM.SAL1	220	Category report title	CATEGORY

Function no.	Key or function	In default of proramming	Function no.	Key or function	In default of proramming
221	Transaction report title	TRANS.	256	Gas sales subtotal (for check 5)	GAS10 ST
222	Cash in drawer report title	CID	257	Gas sales subtotal (for charge 1)	GAS11 ST
223	Commission sales report title	SALES	258	Gas sales subtotal (for charge 2)	GAS12 ST
224	CCD report title	CCD	259	Gas sales subtotal (for charge 3)	GAS13 ST
225	Server/cashier report title	SERVER	260	Gas sales subtotal (for charge 4)	GAS14 ST
226	Hourly report title	HOURLY	261	Gas sales subtotal (for charge 5)	GAS15 ST
227	Daily net report title	DAILY	262	Gas sales subtotal (for charge 6)	GAS16 ST
228	GLU/PBLU report title	GLU	263	Gas sales subtotal (for charge 7)	GAS17 ST
229	Non-accessed UPC report title	NO ACCES	264	Gas sales subtotal (for charge 8)	GAS18 ST
230	Dynamic UPC report title	DYN.UPC	265	Gas sales subtotal (for charge 9)	GAS19 ST
231	Tax report title	ΤΑΧ	266	AMOUNT (text on display)	AMOUNT
232	Non-add code text	#	267	WEIGHT (text on display)	WEIGHT
233	GLU/PBLU code text	TBL#	268	Refund type of sales (text on display)	RF SALE
234	Copy receipt title	СОРҮ	269	Price change title	PR. CHNG
235	Waste receipt title	WASTE	270	Tip amount for tip edit	TIP AMT
236	Bill transfer receipt title	В. Т.	271	Final balance (for closed GLU report)	FIN. BAL
237	Bill separate receipt title	B. S.	272	Edit tip	EDIT TIP
238	Final (used only for PGM mode)	FINAL	273	Bill on receipt title	BILL
239	Balance	BALANCE	274	RA cash total (for trans. report)	RA CASH
240	Slip print message on journal	SLIP PR.	275	RA2 cash total (for trans. report)	RA2 CASH
241	Slip next page	NEXT P.	276	RA check total (for trans. report)	RA CHK
242	Balance forward	BAL FWD	277	RA2 check total (for trans. report)	RA2 CHK
243	Tare weight	TARE WT.	278	RA charge total (for trans. report)	RA CHR
244	DUE (text on display)	DUE	279	RA2 charge total (for trans. report)	RA2 CHR
245	Tip due (text on display)	TIP DUE	280	RA food stamp total (for trans. report)	RA FS
246	TAX ST (text on display)	TAX ST	281	RA2 food stamp total (for trans. report)	RA2 FS
247	Gas sales subtotal (for cash 1)	GAS1 ST	282	PO cash total (for trans. report)	PO CASH
248	Gas sales subtotal (for cash 2)	GAS2 ST	283	PO2 cash total (for trans. report)	PO2 CASH
249	Gas sales subtotal (for cash 3)	GAS3 ST	284	PO check total (for trans. report)	PO CHK
250	Gas sales subtotal (for cash 4)	GAS4 ST	285	PO2 check total (for trans. report)	PO2 CHK
251	Gas sales subtotal (for cash 5)	GAS5 ST	286	PO charge total (for trans. report)	PO CHR
252	Gas sales subtotal (for check 1)	GAS6 ST	287	PO2 charge total (for trans. report)	PO2 CHR
253	Gas sales subtotal (for check 2)	GAS7 ST	288	PO food stamp total (for trans. report)	PO FS
254	Gas sales subtotal (for check 3)	GAS8 ST	289	PO2 food stamp total (for trans. report)	PO2 FS
255	Gas sales subtotal (for check 4)	GAS9 ST			

Note

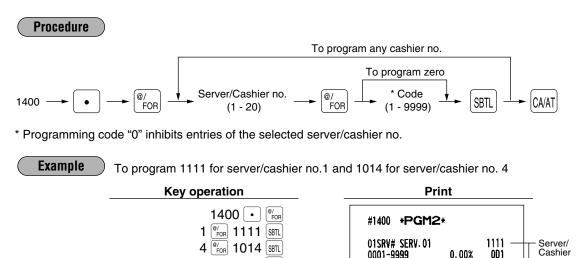
The items marked with "*" are for Canada only.
The function no. 143 "Exempt VAT" is only effective for the Canadian tax system (2 GST, VAT type).

9 Server/Cashier programming

The ER-A520 provides a cashier system and the ER-A530 provides a server system. Please note that texts for cashiers/servers are printed as servers (SRV/SERV) on the receipts.

Server/Cashier code PGM 1 PGM 2 1400

You can assign a server/cashier code to each server/cashier. For more details, please contact your authorized SHARP dealer.



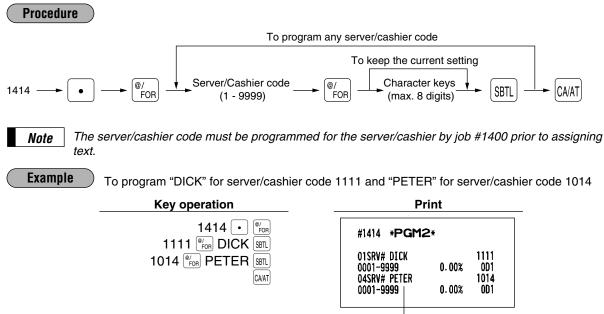
CA/AT

Server/Cashier name PGM 1 PGM 2 1414

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

04SRV# SERV. 04

0001-9999



- Server/Cashier name

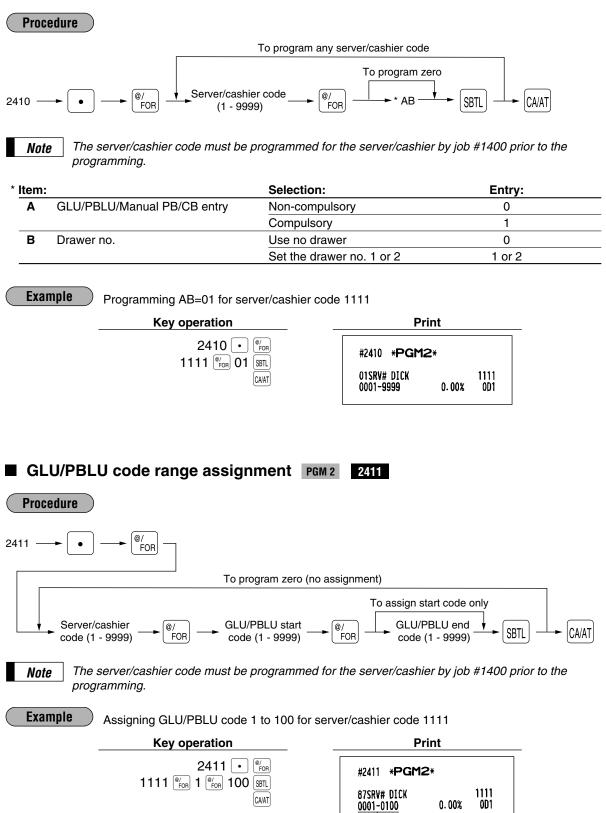
code

1014

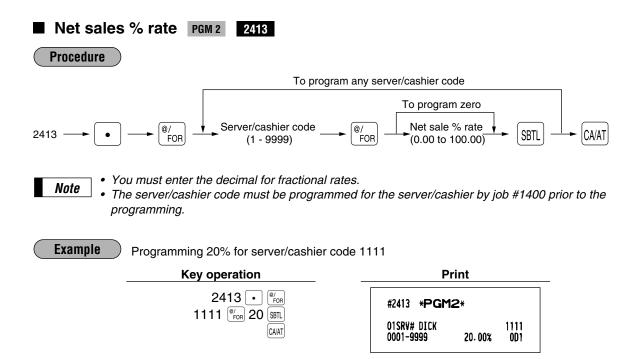
0D1

0.00%

Functional programming PGM 2 2410



GLU/PBLU range



10 Programming various functions

Programming for optional feature selection PGM 2 2616

(pressing a level shift key).

Your register enables you to select the following options:

OP X/Z mode availability

Note

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.

 \neg 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/return 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

152

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 (\bigcirc) entry

Zero skip for various reports

Share % printing in dept. report

Tip entry method

Cover count entry

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

Void mode in REG mode

Finalization when the subtotal amount is zero in the REG mode

Item printing in PBLU transactions on the slip

Tip-paid operation in REG mode

Transfer-in/out operation in REG mode

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

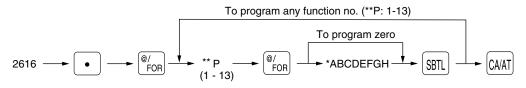
Learning function of UPC entry

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



**P: 1

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 and return in the REG mode	Enable	0
		Disable	1
Ε	Direct void in REG mode	Enable	0
		Disable	1
F	Indirect void in the REG mode	Enable	0
		Disable	1
G	Subtotal void in REG mode	Enable	0
		Disable	1
н	Validation printing in a refund and return entry	Non-compulsory	0
		Compulsory	1

**P: 2

*

Ite	m:	Selection:	Entry:	
Α	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	
Е	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

lte	m:	Selection:	Entry:
Α	Always enter 0.		0
В	Always enter 0.		0
С	Zero skip in server/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

**P: 4

Ite	em:	Selection:	Entry:	
Α	Share % printing in dept. report	Yes	0	
		No	1	
В	Tip entry method	Amount entry	0	
		Fixed rate entry	1	
С	Always enter 0.		0	
D	Always enter 0.		0	
Ε	Always enter 0.		0	
F	Cover count entry	Non-compulsory	0	
		Compulsory	1	
G	Always enter 0.		0	
Н	Automatic return mode for PLU level shift	After each item	0	
		After each receipt	1	

Note Automatic return mode for PLU level shift: This setting is available only when available mode for PLU level shift is set to automatic return mode. (See P:2/parameter B shown above.)

**P:	5		
* <u>It</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
H	Automatic return mode for PLU/UPC price level	After each item	0
		After each receipt	1

Note Automatic return mode for PLU/UPC price level: This setting is available only when PLU/UPC price shift mode is set to automatic return mode (parameter G).

P: 7 * **Ite

Ite	m:	Selection:	Entry:
Α	Void mode in REG mode	Enable	0
		Disable	1
В	Always enter 0.		0
С	No sale in REG mode	Enable	0
		Disable	1
D	Finalization when the subtotal amount is zero	Enable	0
	in the REG mode	Disable	1
Ε	Item printing in GLU/PBLU transaction	Yes	0
	on the slip	No	1
F	Tip-paid operation in REG mode	Enable	0
		Disable	1
G	Transfer-in/out operation in REG mode	Enable	0
		Disable	1
Н	Always enter 0.		0

P: 8 * **Itei

lte	m:	Selection:	Entry:
Α	Always enter 0.		0
В	Always enter 0.		0
С	Always enter 0.		0
D	Usability of the received-account entry	Without limitation	0
		Only for GLU/PBLU transaction	1
Е	Validation printing in a check cashing	Non-compulsorly	0
		Compulsory	1
F	Validation printing in a received-account entry	Non-compulsorly	0
		Compulsory	1
G	Validation printing in a paid-out entry	Non-compulsorly	0
		Compulsory	1
Н	Validation printing in tip-in/tip-paid operation	Non-compulsorly	0
		Compulsory	1

**P: 9

Ite	m:	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
Ε	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	
2					

**P: 11 (ABCDEFGH: Always enter 0.)

**P: 12

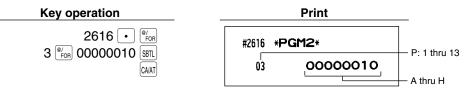
*	Item:		Selection:	Entry:	
	A to G	Always enter 0.		0	
	Н	Price change function in REG mode	Enable	0	
			Disable	1	

**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
Е	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 server/cashier report, transaction report, dept. report, PLU/UPC report and daily net report, and to select non-skip printing for an hourly report.



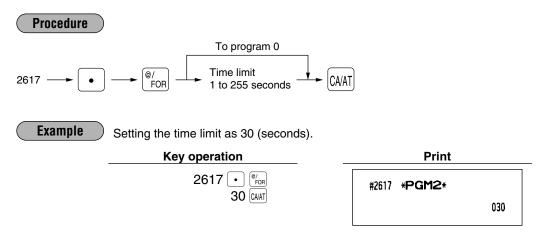
Programming the parameter of the slip printer PGM 2 2615

Procedure	
When A thru F are zeroes	
2615 \longrightarrow $(@/FOR)$ \longrightarrow *ABCDEF \longrightarrow CA/AT	
 * 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 Key operation	Print
2615 ● [©] / _{FoR} #2615 009910 GAAT	

00 99 1 0

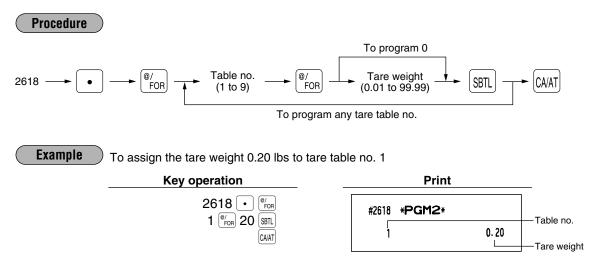
■ Setting the time limit for THE TILL TIMER[™] PGM 2 2617

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.



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).

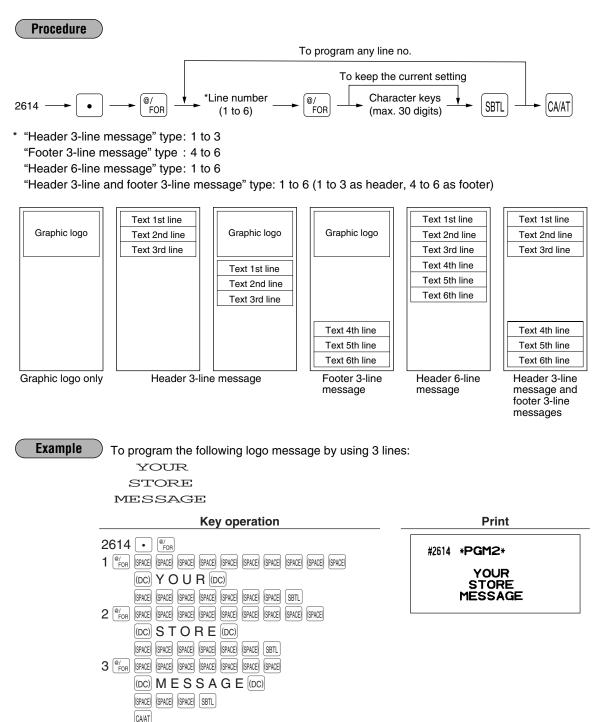


Programming of logo messages PGM 2 2614

(SPACE :Space key)

Your register can print programmed messages for customers on every receipt. On the standard model, the ER-A520 prints a graphic logo/the ER-A530 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.)

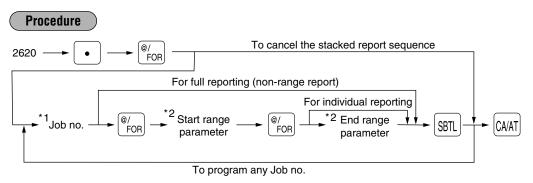
If you want to print logo message, please consult your dealer too. You have five options described below. Select the characters you want to program, referring to section "2 How to program alphanumeric characters" in chapter "PRIOR TO PROGRAMMING."



¹⁵⁹

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.



- **Note** A maximum of 70 steps are programmable. "1 step" means the memory size used for one norange type job no. The range type reports needs 6, 8 or 16 steps to execute the printing. Find how many steps are required at the column of Note to calculate total number of steps for the reports you want to print in sequence.
 - 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)	16 steps
24	PLU/UPC stock	*3 Start code/End code (max. 5/13 digits)	16 steps
27	PLU/UPC zero sales		
29	PLU/UPC price category	*3 Start price amount/End price amount	8 steps
30	Transaction		
31	Cash in drawer		
32	Commission sale		
33	Тах		
40	Full server/cashier		
60	Hourly sales information	*3 Start time/End time (0 thru 2330)	Range report is available only in the X1 mode. 6 steps for a range report.
69	Dynamic UPC	*3 Start code/End code (max. 13 digits)	16 steps
70	Daily net report		
80	GLU/PBLU report	*3 Start GLU/PBLU code/End GLU/PBLU code (1 thru 9999)	6 steps

*3: Both range setting and full setting are allowed.

Example

To print reports 10 and 13 as a stacked report.

Key operation

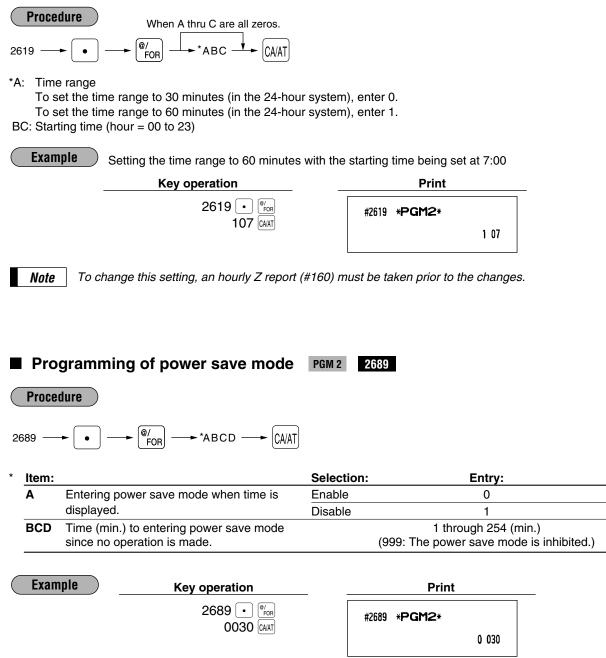


#2620	*PGM2*	
		10 13

Print

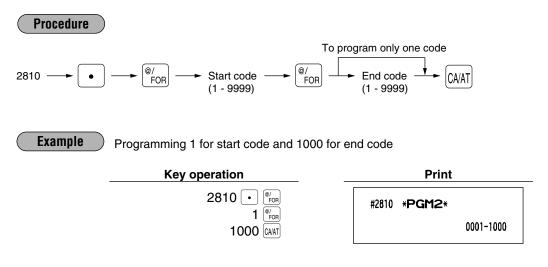
Setting the time range for hourly reports PGM 2 2619

You can set the time range for the hourly report.



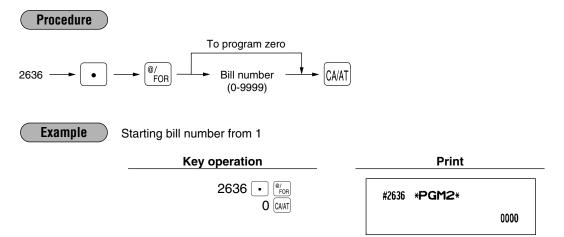
Available GLU/PBLU codes PGM 2 2810

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



Bill number PGM 2 2636

A consecutive bill number is automatically increased by one each time a GLU/PBLU entry is finalized. Specify a number that one less than a desired starting number.



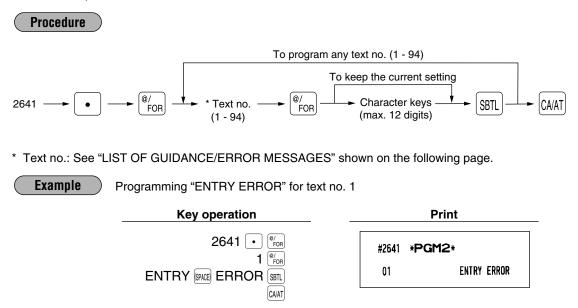
■ Functional programming for the printer PGM 2 2990

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

Procedure	
2990 \longrightarrow \bigcirc	
*AB: Printing density (00 – 99)	
00 = 89% for standard density	
50 = 100% for standard density	
99 = 111% for standard density	
Example Programming "100% for standard density"	
Key operation	Print
2990 • [@] /FOR 50 [GAAT]	#2990 * PGM2 *
	50

Editing guidance/error messages PGM 2 2641

Your register has standard guidance/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".



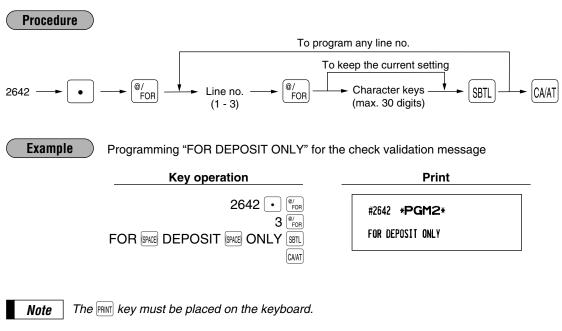
■ LIST OF GUIDANCE/ERROR MESSAGES

2 M 3 pr 4 (F 5 Se 6 Cd 7 M 8 In 9 Tr 10 St 11 Cd 12 Cd 13 Cd	egistration error isoperation error esired code is not ogrammed yet. Aeserved) ecret code error ode is not free emory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key ompulsory tendering	ENTRY ERROR MISOPERATION NO RECORD SECRET CODE NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK SBTL COMPUL.
3 Do 3 Do 4 (Fi 5 Se 6 Co 7 M 8 In 9 Tr 10 St 11 Co 12 Co 13 Co	esited code is not ogrammed yet. Reserved) ecret code error ode is not free lemory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	NO RECORD SECRET CODE NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK
3 pr 4 (FI 5 Se 6 Ca 7 M 8 In 9 Tr 10 St 11 Ca 12 Ca 13 Ca	ogrammed yet. Reserved) ecret code error ode is not free lemory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	SECRET CODE NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK
5 Se 6 Cd 7 M 8 In 9 Tr 10 St 11 Cd 12 Cd 13 Cd	ecret code error ode is not free emory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK
6 Co 7 M 8 In 9 Th is 10 St 11 Co 11 Co 13 Co	ode is not free emory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK
7 M 8 In 9 Tr 10 St 11 Co 12 Co 13 Co	emory is full. sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	MEMORY FULL INSERT SLIP NO AUTHORITY OUT OF STOCK
8 In 9 Tr 10 St 11 Ca 12 Ca 13 Ca	sert slip paper. he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	INSERT SLIP NO AUTHORITY OUT OF STOCK
9 Trising 10 St 11 Control 12 Control 13 Control	he entered server/cashier's code not authorized. tock is empty. ompulsory pushing e subtotal key	NO AUTHORITY OUT OF STOCK
9 is 10 St 11 Ca 12 Ca 13 Ca	not authorized. tock is empty. ompulsory pushing e subtotal key	OUT OF STOCK
11 Co 11 Co 12 Co 13 Co	ompulsory pushing e subtotal key	
11 th 12 Co 13 Co	e subtotal key	SBTL COMPUL.
13 Co	ompulsory tendering	
		TEND COMPUL.
1/ /8	ompulsory GLU/PBLU entry	PB COMPUL.
14 (1	Reserved)	
15 Co	ompulsory cover count entry	COV CNT COMP
	heck edit error or manual PB entry)	C/D ERROR
17-19 (R	Reserved)	
20 Re	emote printer off line	OFF LINE
21 (F	Reserved)	
22 O	verlapped server/cashier error	SERVER ERR.
23-26 (F	Reserved)	
27 Po	ower off	POWER OFF
28-29 (F	Reserved)	
30 Co	ompulsory tender entry for tip	TIP ERROR
31 Co	ompulsory non-add code	# COMPULSORY
32 Th	he server/cashier is not assigned.	NOT ASSIGNED
33 (F	Reserved)	
34 O'	verflow limitation	OVER LIMIT.
35 inl	he open price entry is hibited.	INH. OPEN PR
³⁶ in	he unit price entry is hibited.	INH. UNIT PR
37 fin	he direct non-tendering nalization after previous nder entry is inhibited.	NOT NON-TEND
38 Re	ead error of scale data	SCALE ERROR

Text no.	Description	In default of programming
39-47	(Reserved)	
48	Enter check number	ENTER CHECK#
49	Enter cover count	COVER COUNT
50	(Reserved)	
51	Weight on scale	WEIGHT
52	Closed check file is full.	C.FILE FULL
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	PLU/UPC file is full.	UPC FULL
72-73	(Reserved)	
74	Non-accessed UPC delete job	DELETE
75	(Reserved)	
76	Closing the drawer is compulsory.	CLOSE DRAWER
77	Price level shift error	ENTER P.SFT
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

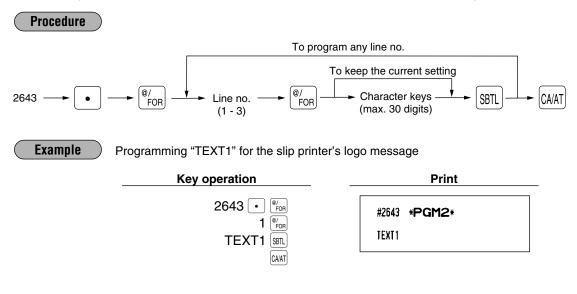
■ Validation message PGM 2 2642

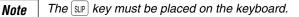
You can program the text (3 lines) to be printed on validation slip. Up to 30 characters can be programmed per line.



Slip printer's logo message PGM 2 2643

You can program the text (3 lines) to be printed on slip. Up to 30 characters can be programmed per line.





RS-232C channel assignment PGM 2 2690

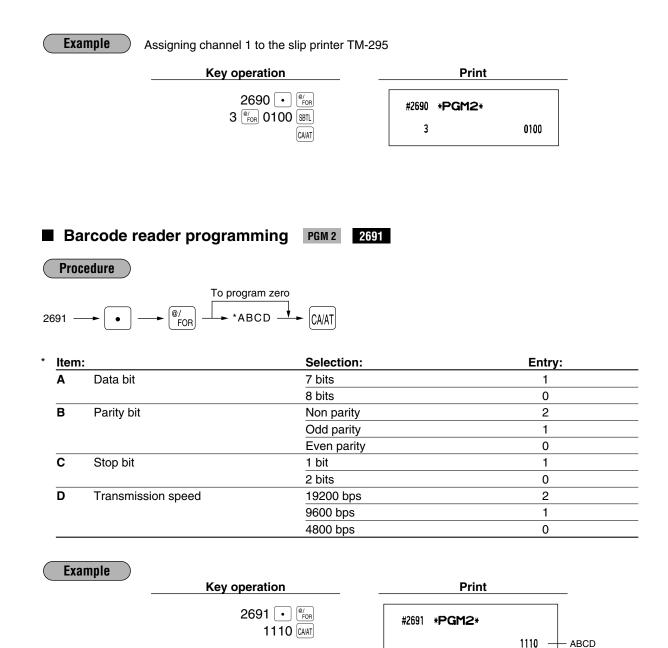
Your register is equipped with two RS-232C interfaces. If you use the communication functions, the channel number of each RS-232C interface must be programmed by using the following procedure. To activate the communication functions, please consult your dealer.

Proce	to program any functio	n no. (**P: 1 - 3)	
		gram zero	
690 —			/AT
P: 1	(),		
Item:		Selection:	Entry:
A	Channel no. for the ON-LINE communication	Not connected	0
		Standard channel 1	1
		Standard channel 2	2
В	Channel no. for print data sending (CVM)	Not connected	0
		Standard channel 1	1
		Standard channel 2	2
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
Item:		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
D Note * P: 3		Standard channel 2	2 0 the standard o Entry:
<u>A</u>	Always enter 0.	NI	0
В	Channel no. for the slip printer TM-295	Not connected	0
	(see below for the selection)	Standard channel 1	1
		Standard channel 2	2

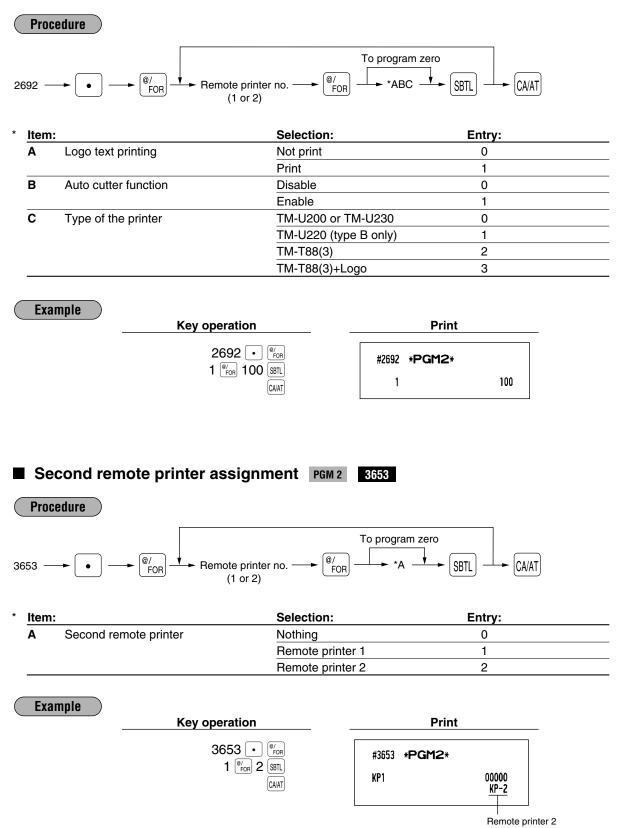
	(see below for the selection)	Standard channel 1	1	
		Standard channel 2	2	
С	Always enter 0.		0	
D	Channel no. for CAT	Not connected	0	
		Standard channel 1	1	
		Standard channel 2	2	

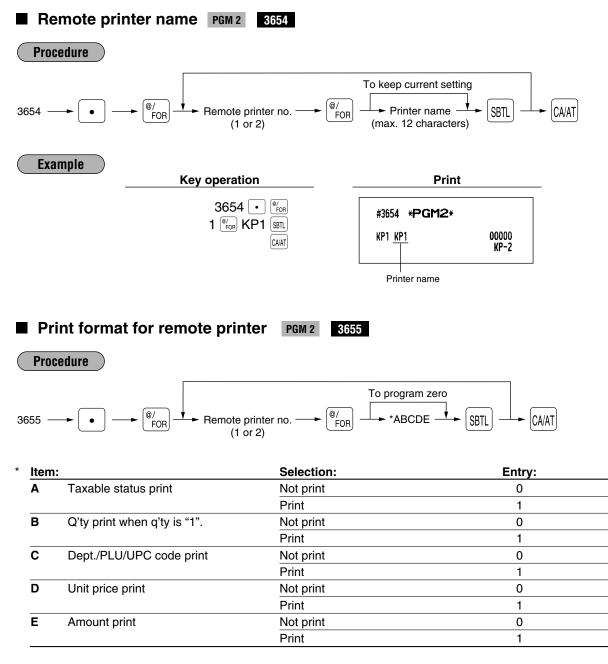
Channel no. for the slip printer TM-295

Select "Not connected" for internal printer (printing bills on receipt) Set "standard channel 1" or "standard channel 2" for TM-295 printer.



Remote printer assignment PGM 2 2692





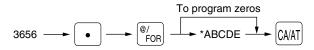
Taxable status print

Taxable status printing is allowed only when "amount print" (parameter E) is set to "Print".

Example	Key operation	Print	
	3655 • [@] / _{For} 1 [@] / _{For} 00000 <u>SBTL</u> CAAT	#3655 *PGM2* KP1 KP1 00000 KP-2	Print format

Chit receipt format PGM 2 3656

Procedure



* <u>I</u>	tem:		Selection:	Entry:
-	Α	Taxable status print	Not print	0
			Print	1
E	В	Q'ty print when q'ty is "1".	Not print	0
			Print	1
C	C	Dept./PLU/UPC code print	Not print	0
			Print	1
[D	Unit price print	Not print	0
_			Print	1
E	E	Amount print	Not print	0
_			Print	1

Taxable status print

Taxable status printing is allowed only when "amount print" (parameter E) is set to "Print".

Example

Key operation

3656 • ^{@/}FOR 00000 CA/AT Print #3656 ***PGM2*** CHIT FORMAT 00000

RS-232C interface PGM 2 6110 6111 6112 6113

6115

6212

6213 6220

Online terminal number



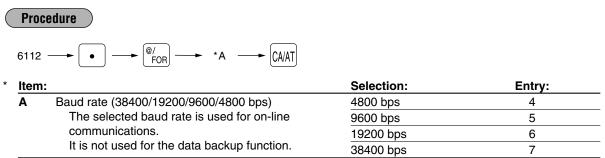
Transmission line form system

Procedure



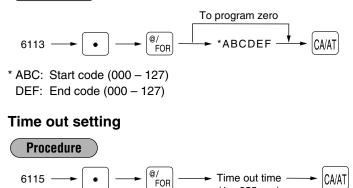
* <u>Ite</u>	em: Selection:		Entry:
Α	Sending of the CI signal	No	0
		Sending	1
В	Line form	Full duplex system	0
		Half duplex system	1

Functional programming



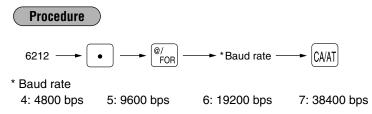
Start code and end code

Procedure

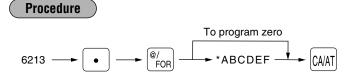


(1 - 255 sec)

Baud rate specification for print data sending

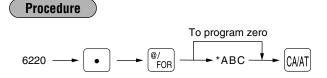


Start/end code specification for print data sending



* ABC: Start code - 000 to 127 DEF: End code - 000 to 127

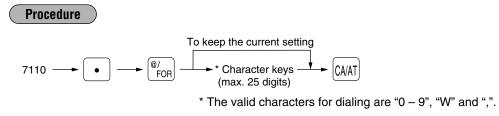
Functional selection for print data sending



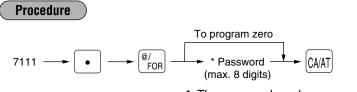
*	Item:		Selection:	Entry:
	Α	Sensing of DR signal	Yes	0
			No	1
	В	Sensing of CS signal	Yes	0
			No	1
	С	Sending of all print data	Disable	0
			Enable	1

Programming the CAT interface PGM 2 7110 7111 7112 7113 7114 7115 7116

Phone number for dial out



Password for dial out

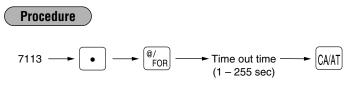


* The password can be programmed with zero suppression, however it is used without zero suppression (00000000 - 99999999) for dialing.

Functional selection Procedure 7112 $\longrightarrow \textcircled{@/}{FOR} \xrightarrow{To program zero} (CAVAT)$

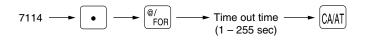
Item	:	Selection:	Entry:
Α	Food stamp mode	Disable	0
		Enable	1
В	PIN PAD on CAT for DEBIT CARD	Yes	0
		No	1
С	Key type for PIN PAD	STATIC	0
		DUKPT	1
		INDEX	2
D	Dial mode for dial out	Tone	0
		Pulse	1

Time out setting for time 1 (reading a credit/debit card)



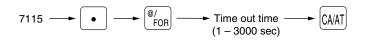
Time out setting for time 2 (for the response of authorization)





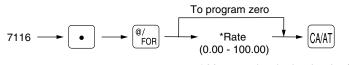
Time out setting for time 3 (for the reading of dial in/out)





Allowed cash tip rate for authorization

Procedure

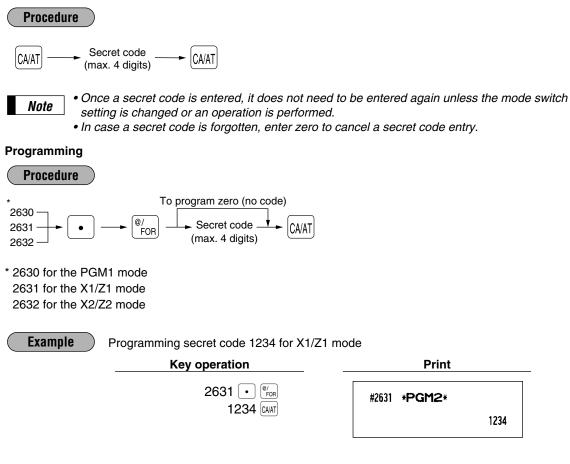


* You need a decimal point for fractional rate entry.

Secret codes to control access to the PGM1 mode, X1/Z1 mode and X2/Z2 mode PGM 2 2630 2631 2632

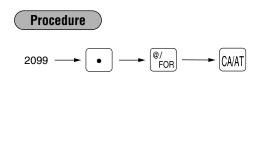
When a secret code has been set for that specific mode operation, before performing any PGM1 mode, X1/Z1 mode or X2/Z2 mode operation, you must enter a secret code according to the following procedure.

Operating



■ Loading dynamic UPCs to the main UPC file PGM 2 2099

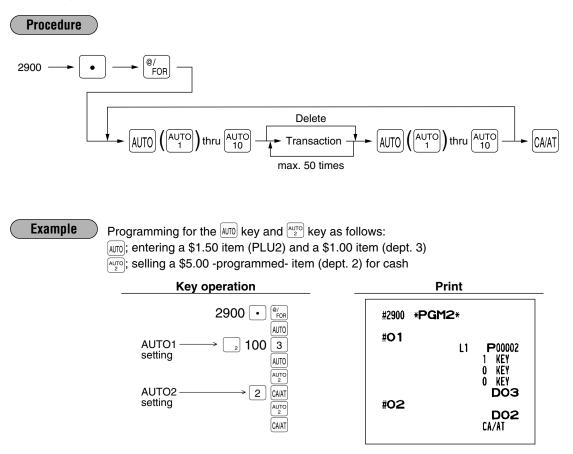
The UPC master file can be updated by loading the data recorded in the dynamic UPC file to the UPC master file. Execute the following job.



#2099 * PGM	12*
5099887654302# DPT. 03	#(O3) /00
	7.00
CT1 //D000	
FT1 KP000	GOO OO OO C3
0000002	00 AOO MOO COO
4901305920795#	(O1) /00
	(OT) 700
DPT. 01	
	12.50
KP000	GOO OO OO C1
0000002	00 AOO MOO COO

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.



- 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	F	Print 08/27/2004 123456 #1197 2:04PM PETER 1014 **TRA I N I NG** DPT. O2 1:\$10.00 3 @ \$1.50		
	1000 2 3 ^{(e/} 500 3				
	CA/AT		T1\$10.00		
		DPT. O3 MDSE ST TAX1	т і \$4.50 \$14.50 \$0.87		
		CASH	\$15. 37		

12 Reading stored programs

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

Program details and procedures for their reading

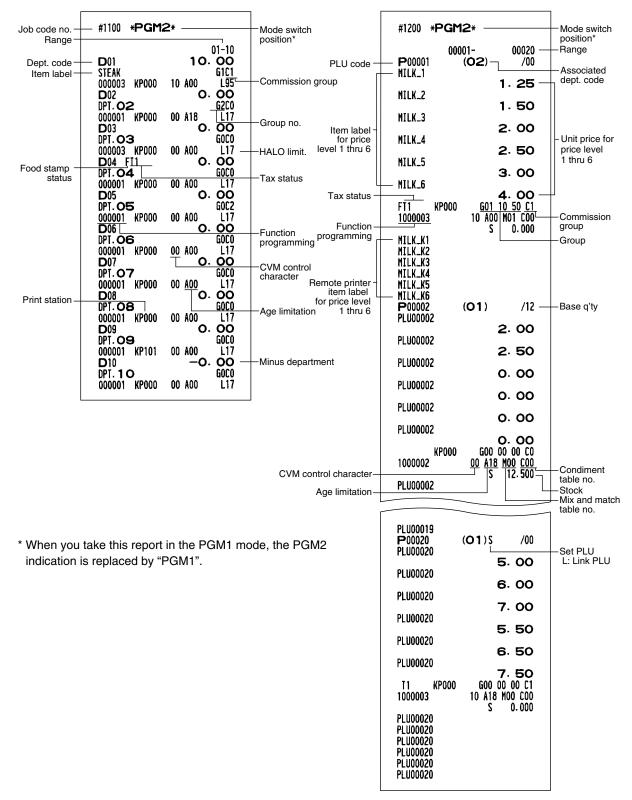
	Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
1	Departments	PGM2 or PGM1	1100		1110, 2110, 2111, 2112, 2114, 2115, 2116, 2180, 2118, 2158
2	PLUs/UPCs	PGM2 or PGM1	1200	$ \begin{array}{c} & & 1200 \longrightarrow \textcircled{P}{POR} \\ \hline & & For reading all codes \\ \hline & & For individual reading \\ & & Start PLU/ \longrightarrow \textcircled{P}{POR} \longrightarrow End PLU/ & & & & \\ & & & UPC code & & & & & \\ & & & & UPC code & & & & \\ & & & & & & & \\ & & & & & & $	1200, 1210, 1211, 2210, 2211, 2217, 2214, 2215, 2222, 2230, 2231, 2232, 2235, 2236, 2280, 2218, 2216, 2234, 2244, 2258
3	Key nos. for departments and PLUs	PGM2	2119	\longrightarrow 2119 \longrightarrow $\operatorname{CAAT}^{(@/}_{FOR}$ \longrightarrow CAAT	2119, 2219
4	Link PLUs/UPC link	PGM2	2220	$ \xrightarrow{\text{BV}} 2220 \xrightarrow{\text{BV}} \xrightarrow{\text{FOR}} \xrightarrow{\text{For reading all codes}} $ For individual reading $ \xrightarrow{\text{Start PLU}} \xrightarrow{\text{Start PLU}} \xrightarrow{\text{BV}} \xrightarrow{\text{End PLU}} \xrightarrow{\text{VV}} \xrightarrow{\text{CAAT}} $	2220
5	Set PLUs	PGM2	2221	$ \xrightarrow{\text{BV}} 2221 \xrightarrow{\text{BV}} \xrightarrow{\text{BV}} \xrightarrow{\text{For reading all codes}} $ For individual reading Start PLU code $ \xrightarrow{\text{BV}} \xrightarrow{\text{BV}} \xrightarrow{\text{End}} \xrightarrow{\text{V}} \xrightarrow{\text{CAAT}} $	2221
6	Mix-and-match table	PGM2	2225	\longrightarrow 2225 $\longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	2225
7	Condiment table	PGM2	2223	\longrightarrow 2223 $\longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	2223
8	UPC's function	PGM2	2025	\longrightarrow 2025 \longrightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} CA/AT \end{array} \right]$	2025, 2029

	Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
9	Dynamic UPCs	PGM2 or PGM1	1050	$ \begin{array}{c} & 1050 \longrightarrow \textcircled{B}{/}{}_{FOR} \\ \hline \\ & For reading all codes \\ \hline \\ & For individual reading \\ & UPC code \longrightarrow \textcircled{B}{/}{}_{FOR} \\ \hline \\ & UPC code \\ \hline \\ & For the last picking list \\ \hline \\ & Scan UPC code \\ \hline \\ & UPC code \\ \hline \\ & UPC code \\ \hline \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$	1050, 1060, 1061, 2059, 2060, 2061, 2064, 2065, 2066, 2067, 2068, 2081, 2094
10	Dept. /PLU/UPC group text	PGM2 or PGM1	2350	\longrightarrow 2350 \longrightarrow $\left[\begin{array}{c} @/\\ \text{FOR} \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} \text{CAAT} \end{array} \right]$	2350, 2351
11	Servers/cashiers	PGM2 or PGM1	1400	\longrightarrow 1400 \longrightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} CA/AT \end{array} \right]$	1400, 1414, 2410, 2411 2413
12	GLU/PBLU code	PGM2	2800	\longrightarrow 2800 \longrightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} CAAT \end{array} \right]$	2810
13	Function preset 1	PGM2 or PGM1	1300	\longrightarrow 1300 \longrightarrow $\bigcirc / FOR \longrightarrow$ CA/AT	1310, 1311, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2320, 2321, 2322, 2326, 2334, 2328, 2330
14	Function preset 2	PGM2	2600	$\longrightarrow 2600 \longrightarrow \left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow \left[\begin{array}{c} CA/AT \end{array} \right]$	2614, 2615, 2616, 2617, 2618, 2619, 2620, 2630, 2631, 2632, 2636, 2689, 2690, 2691, 2692
15	Messages	PGM2	2640	\longrightarrow 2640 \longrightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} CA/AT \end{array} \right]$	2641, 2642, 2643
16	Tax tables and rates	PGM2 or PGM1	2700	$\longrightarrow 2700 \longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	2710, 2711
17	Auto keys	PGM2	2900	$\longrightarrow 2900 \longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	2900
18	Thermal printer	PGM2	2990	\longrightarrow 2990 \longrightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \longrightarrow$ $\left[\begin{array}{c} CA/AT \end{array} \right]$	2990
19	Remote printer	PGM2	3650	\rightarrow 3650 $\rightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \rightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	3653, 3654, 3655, 3656
20	On-line preset	PGM2 or PGM1	6110	$\longrightarrow 6110 \longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$	6110, 6111, 6112, 6113, 6115, 6212, 6213, 6220
21	CAT preset	PGM2	7110	\rightarrow 7110 \rightarrow $\left[\begin{array}{c} @/\\ FOR \end{array} \right] \rightarrow$ CANAT	7110, 7111, 7112, 7113, 7114, 7115, 7116

Sample printouts

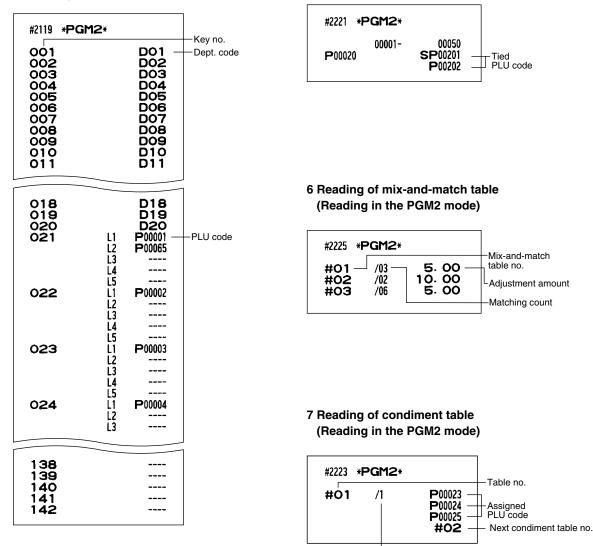
1 Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)

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



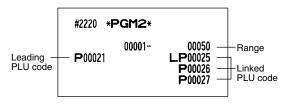
3 Reading of programmed key nos. for departments and PLUs (Reading in the PGM2 mode)

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

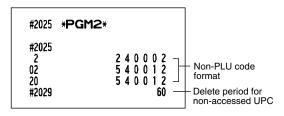


Number of repeats

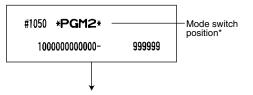
4 Reading of programmed items for link PLUs (Reading in the PGM2 mode)



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



9 Reading of programmed Dynamic UPC (Reading in the PGM1 and PGM2 mode)



The subsequent printout occurs in the same format as in the sample reading of programmed items for PLUs/UPCs.

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

11 Reading of programmed items for servers/cashiers (Reading in the PGM1 and PGM2 modes)

Server/cashier – name Server/cashier – no.	#1400 *PGM2 01SRV# DICK 0001-0100 02SRV# SERV. 02 0001-9999 03SRV# SERV. 03 0001-9999 04SRV# PETER 0001-9999 05SRV# SERV. 05 0001-9999 06SRV# SERV. 06	* 0. 00% 0. 00% <u>0. 00%</u> 0. 00%	1111 0002 001 0003 001 1014 001 0005 001 0005	 Mode switch position* Server/cashier code Drawer no. GLU/PBLU/ manual PC/CB entry Net sale %
	19SRV# SERV. 19 0001-9999 20SRV# SERV. 20 0001-9999	0.00% 0.00%	0019 0D1 0020 0D1	

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

10 Reading of programmed department and PLU/UPC group text (Reading in the PGM2 mode)

#2350 *PGM2 * #2350 #1 #2 #3 #4 #5 #6 #7 #8 #9	DINNER GROUPO2 GROUPO3 GROUPO4 GROUPO5 GROUPO6 GROUPO8 GROUPO8 GROUPO9	— Department group no. — Text
#2351 #01 #02 #03 #04	DRINK Plu gro2 Plu gro3 Plu gro4	- PLU group no.
#96 #97 #98 #99	PLU GR96 PLU GR97 PLU GR98 PLU GR99	

12 Reading of programmed GLU/PBLU code (Reading in the PGM2 modes)

#2800	*PGM2*	
#2810		0001-9999

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

#1300 * PGM2 *	F055 PST TTL F056 GST TTL
F001 (-) 1 -0.50	F 050 051 111 F 057 FS 1X1 F 058 FS 1X2
I L17 F002 () 2 -0.75	F058 FS 1X2 F059 FS 1X3
I L22 F003 (-) 3 -1.00	FOGO TTL TAX
I L17	
F004 () 4 -2.00 S L17	FO63 CP PLU FO64 V.CP UPC
F005 () 5 -2.50	F065 VOID
S L17 F006 %1 5.00%	FO66 SBTL VD F067 Mgr VD
I 3 L100.00%	F068 VOID
I 3 L100.00%	F069 REFUND F070 RETURN
F008 %3 -15.00% S 3 L100.00%	FO71 HASH VD F072 HASH RF
F009 %4 -20.00%	F073 HASH RT
S 3 L100.00% F010 %5 -30.00%	FO74 NO SALE FO75 VP CNT
S 3 L100.00%	FO76 BILL CNT F077 DRW CNT
F012 GAS(-)2 0.250	FO78 TRAY CNT
F 013 GAS (-) 3 0.200 F 014 GAS (-) 4 0.100	FO79 TRAN. DUT F080 TRAN. IN
F015 GAS(-)5 0.500	F081 ***PBAL
FF016 GAS(-)6 0.200 FF017 GAS(-)7 0.150	F082 SERVICE KP000 0000000000 000000000
FF018 GAS(-)8 0.100 FF019 GAS(-)9 0.100	F083 DEPOSIT F084 DPST RF
FO20 GAS(-)10 0.500	FO85 COVER CT
FF021 GAS (-) 11 0.500 FF022 GAS (-) 12 0.500	FO86 TRANS CT F087 GRATUITY 0.00%
F023 GAS(-)13 0.500	
F025 GAS (-) 15 0.450	F088 NET3 F089 CASH KP000 L18
FF026 GAS (-) 16 0.400 FF027 GAS (-) 17 0.400	10000 0000000000 000000000 F090 CASH2 KP000 L18
F 028 GAS (-) 18 0. 350	10000 0000000000 000000000
F029 GAS (-) 19 0. 300 F030 NET 1	F091 CASH3 KP000 L18 10000 0000000000 000000000
FO31 TAX1 ST F032 GRS TAX1	F092 CASH4 KP000 L18 10000 0000000000 000000000
FO33 RFD TAX1	F093 CASH5 KP000 L18
FF034 TAX1 FF035 TX1 EXPT	10000 0000000000 000000000 F094 FSSALE KP000
F036 TAX2 ST F037 GRS TAX2	0000000000 F095 ***RA L18
F038 RFD TAX2	F096 ***RA2 L18
FF039 TAX2 FF040 TX2 Expt	F097 ***P0 L18 F098 ***P02 L18
FO41 TAX3 ST	F099 CA/CHK1 9999999.99
FF042 GRS TAX3 FF043 RFD TAX3	F100 CA/CHK2 9999999.99 F101 CA/CHK3 9999999.99
FF044 TAX3 FF045 TX3 EXPT	F102 CA/CHK4 9999999.99 F103 CA/CHK5 9999999.99
IF046 TAX4 ST	F104 CHK/CG 9999999.99
FF047 GRS TAX4 FF048 RFD TAX4	F105 FS/CG F106 CONV 1 € 0.8063
FO49 TAX4	F107 CONV 2 1.1200
FF050 TX4 EXPT FF051 GRS MTAX	F109 CONV 4
FT052 RFD MTAX FT053 N-TAX L17	F110 EAT IN 1 00000
F054 GST EXPT	F111 EAT IN 2
	00000

F112 EAT IN 3	
00000	
F113 FS/ID	
F114 CHARGE1	KP000 L18
10000 00000000000	0000000000
F115 CHARGE1-	
F116 CHARGE2	KP000 L18
	000000000
F117 CHARGE2- F118 CHARGE3	KP000 L18
10000 00000000000	
F119 CHARGE3-	~~~~~
F120 CHARGE4	KP000 L18
10000 00000000000	
F121 CHARGE4-	
F122 CHARGE5	KP000 L18
10000 00000000000	0000000000
F123 CHARGE5-	
F124 CHARGE6	KP000 L18
10000 00000000000	000000000
F125 CHARGE6- F126 CHARGE7	KP000 L18
10000 00000000000	
F127 CHARGE7-	~~~~~
F128 CHARGE8	KP000 L18
10000 00000000000	
F129 CHARGE8-	
F130 CHARGE9	KP000 L18
10000 00000000000	0000000000
F131 CHARGE9-	
F132 CHECK1	KP000 L18
F133 CHECK2	KP000 L18
10000 0000000000 F134 CHECK3	KP000 L18
10000 00000000000	
F135 CHECK4	KP000 L18
10000 00000000000	
F136 CHECK5	KP000 L18
10000 00000000000	0000000000
F137 CA/CH ID	
F138 ****CID	9999999.99
F139 CA TIP	
F140 CH TIP	
FF141 TIP IN	0.00%
F142 TIP PAID	L17
F143 VAT EXPT	
F144 AVE.	
F145 LEVEL 1	
F146 LEVEL 2	
F147 LEVEL 3	
FF148 LEVEL 4	
F149 LEVEL 5	
F150 LEVEL 6	
F151 *DEPT TL	
F152 DEPT (-)	
F153 *HASH TL	
F 154 HASH(-) F 155 *BTTL TL	
F156 BTTL(-)	
F157 *GAS TL	
F 158 GAS(-)	
F159 HASH TTL	
F160 WASTE TL	
F161 ST(-) TL	

To be continued on the next page

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

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

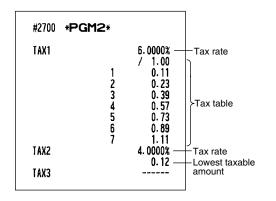
#2600	*PGM2*	
#2614	YOUR STORE	Logo message
	MESSAGE	
#2615 #2616	00 99 1 0	Line feed for tray subtotal
01 02 03 04 05 06 07 08 09 10 11 12 13	0000000 0000000 0000000 0000000 0000000	>Optional feature selection
#2617	030 -	Drawer open alarm time
#2618 1 2 3 4 5 6 7 8 9 #2619 #2620	0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Scale tare tables
	13	Stacked report
#2630 #2631 #2632 #2636 #2689 #2689	0000 0000 0000 0000 0000 0000	Secret code Bill number Power saving mode
	0000 0000	RS-232C channel data
3 #2691	0100 1110 -	Barcode reader data
#2692 1 2	100 000	Remote printer data
L		

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

				_	1
#2640	*PGM2*		56		
#2641		- Guidance/error	57 58		
01	ENTRY ERROR	messages	59		
02	MISOPERATION		60		
03	NO RECORD		61	NO RECORD	
04			62	PRICE → DEPT	
05	SECRET CODE		63	PRICE & DEPT	
06	NOT FREE		64	ENTER DEPT#	
07	MEMORY FULL		65		
08	INSERT SLIP		66		
09	NO AUTHORITY OUT OF STOCK		67	BUFFER FULL	
10	SBTL COMPUL.		68		
11 12	TEND COMPUL.		69		
13	PB COMPUL.		70		
14			71	UPC FULL	
15	COV CNT COMP		73		
16	C/D ERROR		74	DELETE	
17			75		
18			76	CLOSE DRAWER	
19			17	ENTER P. SFT	
20	OFF LINE		78		
21	SERVER ERR.		79	OP ENTER	
23	JENTEN ENN.		80 81	ENTR SECRET#	
24			82	ENTR SECRET#	
21 22 23 24 25 26 27 28 29 30			83		
26			84	SEND OK	
27	POWER OFF		85	RECEIVE OK	
28			86	COM. ERROR	
29			87	DATA ERROR	
30 31	TIP ERROR # compulsory		88	TIME OUT	
31	NOT ASSIGNED		89		
32 33 34	NOT ASSTURED		90 91		
34	OVER LIMIT.		92		
35	INH. OPEN PR		93		
36	INH. UNIT PR		94	AGE ERROR	
37	NOT NON-TEND		95		
38	SCALE ERROR		96		
39			97		
40			98		
41			99		Observice of the fi
41 42 43 44			#2642		Check validation message
44					
45 46			FOR DEPOSIT ONLY		
46			#2643		Slip printer's logo
47			TEXTI		message
48	ENTER CHECK#				
49 50	COVER COUNT		,		-
50 51	WEIGHT				
52	C.FILE FULL				
51 52 53 54					
54	ENTR TARE WT				
55					

To be continued

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



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

#3650 * PGM2 *	
KP1 KP1	00000 KP-2
KP2	00000 KP-0
CHIT FORMAT	00000

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

#6110 * PGM2 *	
#6110 Terminal No.	000001
#6111 Modem Control	00
#6112 BPS	6
#6113 START CODE END CODE	002 013
#6115 TIME_OUT	007
#6212 BPS	6
#6213 Start Code End Code #6220	002 013
PROGRAM	000

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

#7110 * F	PGM2∗	
#7110 TEL ND.		
0		
#7111 [°]		
PASSWORD	000000	0
#7112 Func. sele	CT 000	ń
#7113		v
TIME OUT1	03	0
#7114	• 09	•
TIME OUT2 #7115	. 03	3
TIME OUT3	009	9
#7116		
AMOUNT%	0.00	*

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

#2900	*PGM2*	
#O1	L1	P00002 1 KEY 0 KEY 0 KEY DO 3
#02 #03		DO2 CA/AT
#0 4		

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

#2990 * PGM2 *		
	99	Printing density
10 : 0123456789ABCDEF 20 : 0123456789ABCDEF 30 : 0123456789ABCDEF 40 : 0123456789ABCDEF 50 : 0123456789ABCDEF 50 : 0123456789ABCDEF 60 : 0123456789ABCDEF 80 : 0123456789ABCDEF 90 : 0123456789ABCDEF		Entered Value Printing density example

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, 5) • 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>
- Number system character: 5 <used as coupon>

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 *,

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.

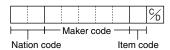
EAN 8

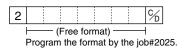
• Ordinary EAN-8 code (flag: neither 0 nor 2) <used in the source marking>

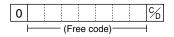
For entry, a full 8 digit number must be entered.

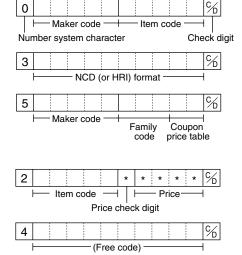
- Internal code (flag 2) <in-store marking non-PLU short type> Program the format by the job #2025.
- Internal code (flag 0) <in-store marking PLU short type>

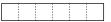
For entry, a full 8 digit number must be entered. On the receipt/journal, non-PLU type code is printed like 208**** (****: price/quantity information)











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)

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.

Add-on code

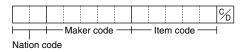
UPC-A and EAN-13 may be followed by a two digits number or a five digits number as add-on code, excepting UPC-A without a check digit plus two or five digits add-on code.

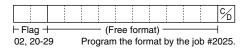
Therefore, the total number of digits enterable for sales entries are as shown below:

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

Note

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

190

Item	Mode posi	switch ition	Job code	Key operation	
	X1/Z1	X2/Z2	0000		
Flash report: (Only display) To clear the display,	x1 —			Dept. key (1 to 99) Dept. code $\longrightarrow \overset{\text{DEPT}}{\overset{\#}{\#}}$: Department total amount	
press the CL key or turn the mode switch to another				(@/ FOR key: Amount of cash in drawer	
position.				SBTL key: Paid total	
General report	X1, Z1	X1, Z1	100		
General report		X2, Z2	200	$\begin{array}{c} 100 \\ 200 \\ Resetting \end{array} \xrightarrow{ \bullet } \left[\begin{array}{c} @/ \\ FOR \end{array} \right] \xrightarrow{ \bullet } \left[\begin{array}{c} CA/AT \end{array} \right]$	
	X1, Z1	X1, Z1	141	$\begin{array}{c} \text{Reading} \\ 141 \\ 241 \end{array} \xrightarrow{\bullet} \begin{array}{c} \bullet \end{array} \xrightarrow{\bullet} \begin{array}{c} @_{/} \\ @_{/} \\ FOR \end{array} \xrightarrow{\bullet} Cashier/server code \xrightarrow{\bullet} CA/AT \end{array}$	
Individual cashier/		X2, Z2	241	$\begin{array}{c} 141 \\ 241 \\ Resetting \end{array} \xrightarrow{(@)} FOR \xrightarrow{(@)} Cashier/server code \xrightarrow{\bullet} CA/AT \\ Resetting \end{array}$	
server report	<op x="" z=""> X, Z 4</op>		41	41 $\xrightarrow{\text{Reading}}$ $\overrightarrow{\text{FOR}} \xrightarrow{\text{CAAT}}$ Resetting	
Full cashier/server	X1, Z1	X1, Z1	140		
report		X2, Z2	240	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Full department	X1	X1	110	$110 \longrightarrow \bigcirc [e_{FOR}] \longrightarrow \bigcirc [CA/AT]$	
report		X2	210		
Individual group total report on	X1	X1	112	$112 \longrightarrow \textcircled{@/}{FOR} \longrightarrow \text{Group number} \longrightarrow \textcircled{CA/AT}$	
department		X2	212		
Full group total report on	X1	X1	113	$\begin{array}{c} 113 \\ 213 \end{array} \longrightarrow \left[\begin{smallmatrix} @/\\ FOR \end{smallmatrix} \right] \longrightarrow \left[\begin{smallmatrix} CAAT \end{smallmatrix} \right]$	
department		X2	213		
PLU/UPC report by designated range	X1, Z1	X1, Z1	120	Reading 120 220 Resetting All PLUs/UPCs	
		X2, Z2	220	Start PLU/ \rightarrow \bigcirc	

Item		switch ition	Job code Key operation	
	X1/Z1	X2/Z2	code	
X1, Z1 X1, Z1 X1, Z1 109 Reading PLU/UPC report Image: Constraint of the second s		109 For full reading and resetting		
by pick up list		X2, Z2	209	Scan UPC code
PLU/UPC report	X1, Z1	X1, Z1	121	
by associated department		X2, Z2	221	$\begin{array}{c} 121 \\ 221 \\ Resetting \end{array} \xrightarrow{\P} \left[\begin{smallmatrix} @/\\ FOR \end{smallmatrix} \right] \xrightarrow{\begin{subarray}{c} @/\\ FOR \end{array} \xrightarrow{\begin{subarray}{c} @/\\ FOR \end{array}$
Individual group total report on	X1	X1	122	$122 \longrightarrow \left[\begin{smallmatrix} @/\\ FOB \end{smallmatrix} \right] \longrightarrow \text{Group number} \longrightarrow \left[\begin{smallmatrix} CA/AT \end{smallmatrix} \right]$
PLU/UPC		X2	222	222 FOR Group number - UAAI
Full group total	X1	X1	123	$\begin{array}{c}123\\223 \longrightarrow \left[\begin{smallmatrix} @/\\ FOR \end{smallmatrix} \right] \longrightarrow \left[\begin{smallmatrix} CA/AT \end{smallmatrix} \right]$
report on PLU/UPC		X2	223	
PLU/UPC zero	X1	X1	127	Full reading
sales report by department		X2	227	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c}129\\229 \end{array} \longrightarrow \begin{array}{c} @/\\ FOR \end{array}$ All prices			
category report		X2	229	Start price
PLU/UPC stock report	X1	X1	124	$124 \longrightarrow \textcircled{B'}_{FOR}$ All PLUs/UPCs $\overbrace{VPC \text{ code}}^{\textcircled{B'}_{FOR}} \xrightarrow{\textcircled{End}}_{UPC \text{ code}} \xleftarrow{\textcircled{CAAT}}$ $Scan UPC \text{ code} \xrightarrow{\textcircled{B'}_{FOR}} \xrightarrow{\textcircled{End}}_{UPC \text{ code}} \xleftarrow{\textcircled{CAAT}}$
PLU/UPC stock report by pick up list	X1	X1	104	For full reading 104 $\longrightarrow \textcircled{B/}{FoR}$ $\xrightarrow{For the last picking list} \xrightarrow{MDSE} \xrightarrow{For Sec UPC code} \xrightarrow{For the last picking list} \xrightarrow{MDSE} \xrightarrow{For the last picking list} \xrightarrow{MDSE} \xrightarrow{For the last picking list} \xrightarrow{MDSE} \xrightarrow{For the last picking list} \xrightarrow{For the last picking list} \xrightarrow{MDSE} \xrightarrow{For the last picking list} Fo$

Item	pos	switch ition	Job code	Key operation
	X1/Z1	X2/Z2		Reading
GLU/PBLU report	X1, Z1	X1, Z1	180	$180 \xrightarrow{\bullet} \underbrace{\bullet}_{FOR} \xrightarrow{@/}_{FOR}$ Resetting $All GLU/PBLUs$ $\underbrace{\bullet}_{FOR} \xrightarrow{@/}_{FOR} \xrightarrow{End GLU/} \underbrace{\bullet}_{FOR} \xrightarrow{@/}_{FOR} \xrightarrow{End GLU/} \underbrace{\bullet}_{CA/AT}$
GLU/PBLU report by cashier/server	X1, Z1	X1, Z1	181	$181 \xrightarrow{\text{Reading}} \qquad $
Closed GLU/PBLU report	X1, Z1	X1, Z1	182	$182 \xrightarrow{\text{Reading}} 6\% \xrightarrow{\text{Resetting}} 6\% \text{Reset$
Closed GLU/PBLU report by cashier/ server	X1, Z1	X1, Z1	183	$183 \xrightarrow{\text{Reading}}_{\text{For}} \xrightarrow{\text{For assigned cashier/server}}_{\text{CA/AT}} \xrightarrow{\text{Reading}}_{\text{For}} \xrightarrow{\text{For assigned cashier/server}}_{\text{CA/AT}}$
Commission sales	X1	X1	132	$132 \longrightarrow \begin{bmatrix} 0 \\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$
report		X2		
Tax report	X1	X1	133	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		X2	233	
Transaction report	X1	X1	130	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		X2	230	
Cash in drawer	X1	X1	131	
report		X2	231	
Dynamic UPC report by designated range	X1, Z1	X1, Z1	169	Reading 169 $\underbrace{\bullet} \bullet $
Dynamic UPC report by pick up list	X1, Z1	X1, Z1	165	Reading 165 Resetting For full reading and resetting For the last picking list Scan UPC code UPC code To pick up UPC codes

Item		switch ition	Job code	Key operation
	X1/Z1	X2/Z2	coue	
Dynamic UPC report by associated department	X1, Z1	X1, Z1	166	$166 \xrightarrow{\text{Reading}} [e]{} for each equation (e){} for $
Dynamic UPC clear report by designated range	X1, Z1	X1, Z1	168	$168 \xrightarrow{\text{Reading}} 168 \xrightarrow{\text{Resetting}} \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
Dynamic UPC clear report by pick up list	X1, Z1	X1, Z1	164	Reading 164 \bullet \bullet \bullet For full reading and resetting For the last picking list $MDSE$ \bullet $CAAT$ Scan UPC code \bullet $MDSE$ \bullet UPC code \bullet $MDSE$ \bullet \bullet O \bullet O \bullet O \bullet O \bullet O \bullet \bullet O \bullet \bullet \bullet O \bullet
Dynamic UPC clear report by associated department	X1, Z1	X1, Z1	167	$167 \xrightarrow{\text{Reading}} 167 \xrightarrow{\bullet} \underbrace{\bullet}_{\text{Form}} \xrightarrow{\bullet} \text{Dept. code} \xrightarrow{\bullet} \underbrace{\text{CA/AT}}$
Hourly report	X1	X1	160	Reading: 160 \longrightarrow $\bigcirc FOR$ \longrightarrow Start* $\longrightarrow \bigcirc O/FOR$ \longrightarrow Start* $\longrightarrow \bigcirc O/FOR$ \longrightarrow Imme range) \longrightarrow End* \longrightarrow CA/AT time * Enter the time in the 24-hour system.
	X1, Z1	X1, Z1		Reading and Resetting: 160 Resetting (%/ Resetting CAAT
Stacked report	X1, Z1	X1, Z1	190	Reading 190 • • • • • • • • • • • • • • • • • • •
		X2, Z2	290	Resetting will be skipped.
Daily net report		X2, Z2	270	$270 \xrightarrow{\text{Reading}} \\ \begin{array}{c} & & \\ & &$

Non-accessed UPC deleting

Item	pos	switch ition	Job code	Key operation		
Reading of non-accessed UPCs	X1/Z1 X1	X2/Z2 X1	105	$105 \longrightarrow \begin{bmatrix} @/\\ FOR \end{bmatrix} \longrightarrow \begin{bmatrix} CA/AT \end{bmatrix}$		
Deleting of non-accessed UPCs	Z1	Z1	105	For full deleting For the last UPC picking list $105 \rightarrow \textcircled{@/}{FOR}$ $\begin{array}{c} For the last UPC picking list \\ Scan UPC code \\ \hline \\ UPC code \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		



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.

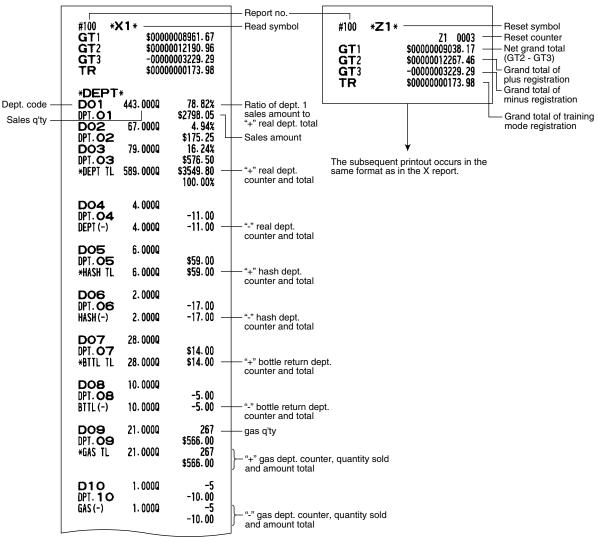
2 Daily sales totals

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.

• Sample X report

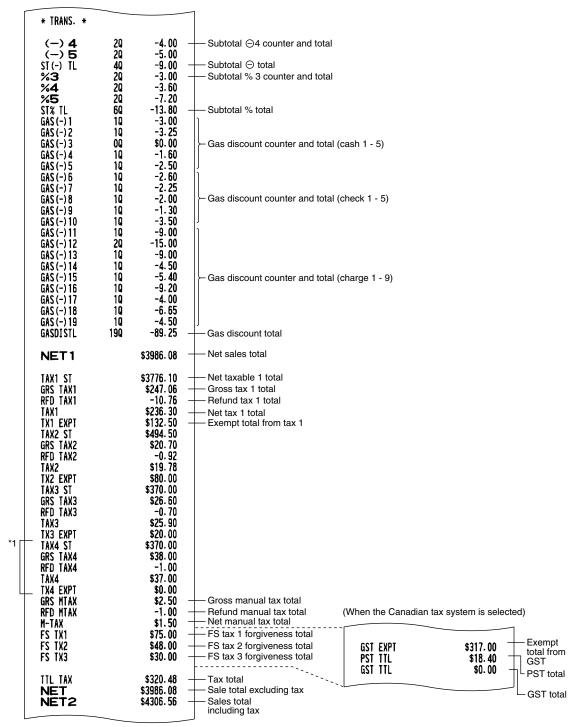
Sample Z report



To be continued on the next page

Note

Not all reports provide the resetting capability. Please refer to the chart on pages 190-194.



To be continued on the next page

*1 When food stamp function is allowed, tax 4 items are not printed.

				-
	(-) 1 (-) 2 (-) 3 (-) 1L %1 %2 % 1L %P PLU %.CP UPC	20 20 30 70 20 40 10 40	-1.00 -1.50 -3.00 -5.50 \$1.90 -3.20 -1.30 -3.00 -5.67	Item ⊝1 counter and total Item ⊝1 total Item % 1 counter and total Item % total Coupon-like PLU counter and total Vender coupon UPC counter and total
	EAT IN 1 EAT IN 2 EAT IN 3 VOID SBIL VD MGR VD VOID REFUND REFUND REFUND HASH VD HASH RF HASH RT	10 10 70 10 10 30 140 20 10 10	\$10.63 \$12.75 \$5.31 \$6.40 \$36.00 \$2.00 \$116.50 \$116.50 \$17.00 \$5.00 \$12.00 \$5.00	Eat-in 1 counter and total Item void counter and total Subtotal void counter and total Manager item void counter and total Void-mode transaction Refund counter and total Return counter and total Hash item void counter and total Hash item refund counter and total Hash item return counter and total
*	NO SALE VP CNT BILL CNT DRW CNT TRAY CNT ***PBAL SERVICE COVER CT TRAN. OUT TRAN. IN TRANS CT AVE.	30 00 10 760 00 320 160 2210 60 60 1660	\$135.00 \$135.00 \$19.49	No-sale (exchange) counter Validation print counter Bill counter Drawer counter Tray subtotal counter GLU/PBAL counter Cover counter Trans-out counter and total Trans-in counter and total Customer counter Average of sales amount
	GRATUITY NET3 Hash TTL Waste TL	80 240	\$54.77 \$4556.75 \$42.00 -71.25	Gratuity total Sales total (including hash dept. total) Hash net sales total Waste total
	CASH CASH2 CASH3 CASH4 CASH5 CASH TL FSSALE	970 40 10 10 10 1040 30	\$2324.01 \$107.81 \$105.38 \$32.40 \$8.13 \$2577.73 \$75.00	Cash counter and total
	RA CASH RA CHK RA CHR RA FS ***RA RA2 CASH RA2 CHK RA2 CHR RA2 CHR RA2 FS ***RA2 RA TL	30 10 10 10 10 10 10 10	\$30.00 \$12.00 \$10.00 \$72.00 \$75.00 \$7.00 \$10.00 \$15.00 \$37.00 \$109.00	RA1 by cash counter and total RA1 by check counter and total RA1 by charge counter ant total RA1 by food stamp counter and total RA1 total RA1 total
l				

* When manual PB/CB function is enabled, amount is also printed for each print item.

			-
PO CASH	10	\$10.00	PO1 by cash counter and total
PO CHK	10	\$5.00	
POCHR	10	\$12.00	
PO FS	10	\$3.00	
***P0	40	\$30.00	
PO2 CASH	10	\$13.00	
PO2 CHK	10	\$5.00	
PO2 CHR	10	\$20.00	
PO2 FS	10	\$5.00	
***P02	40	\$43.00	
PO TL	80	\$73.00	PO total
CA/CHK1	10	\$30.00	
CA/CHK2	10	\$15.00	
CA/CHK3	20	\$15.00	
CA/CHK4	10	\$13.00	
CA/CHK5	ÓQ	\$0.00	
CA/CK TL	50	\$73.00	Check cashing total
CHK/CG		\$25.14	
FS/CG		\$0.00	
CONV 1		€50.00	— Currency conversion 1 total (by programmed rate)
CONV 1 CONV 2		20.00	
CONV 2 CONV 3		20.00 50.00	
		50.00	Currency conversion 4 total (by manual rate)
CONV 4			Currency conversion 4 total (by manual rate)
CONV TL		170.00	Currency conversion total
FS/ID	100	\$92.00	Food stamp in drawer total
CHARGE1	100	\$297.60	Charge 1 counter and total
CHARGE1-	10	-5.31	—— Charge 1 refund/return counter and total
CHARGE2	110	\$337.72	
CHARGE2-	10	-5. 31	
CHARGE3	40	\$158.71	
CHARGE3-	10	-10.63	
CHARGE4	20	\$43. 31	
CHARGE4-	1Q	-10.63	
CHARGE5	2Q	\$52.12	
CHARGE5-	10	-11.03	
CHARGE6	3Q	\$62.47	
CHARGE6-	10	-3.31	
CHARGE7	20	\$26.82	
CHARGE7-	10	-5.31	
CHARGE8	20	\$57.10	
CHARGE8-	10	-7.97	
CHARGE9	20	\$85.70	
CHARGE9-	ĨQ	-3.19	
CHR TL	470	\$1058.86	Charge total
CHECK1	50	\$142.96	Check 1 counter and total
CHECK2	20	\$84.63	
	20	\$183.00	
CHECK3 Check4	30	\$319.48	
		\$319.40 \$10.31	
CHECK5	10		Chask tatal
CHECK TL	130	\$740.38	
CA/CH ID		\$3042.64	Cash + check in drawer
****CID		\$2302.26	Cash in drawer
DEPOSIT	10	\$10.00	Deposit counter and total
DPST RF	10	-10.00	Deposit refund counter and total
TIP PAID	40	\$71.50	Tip-paid counter and total
CA TIP	100	\$42.00	Cash tip counter and total
CH TIP	110	\$39.50	Charge tip counter and total
			—

Cashier/Server report

Using this function, you can take X and Z reports for individual cashiers/servers or all cashiers/servers.

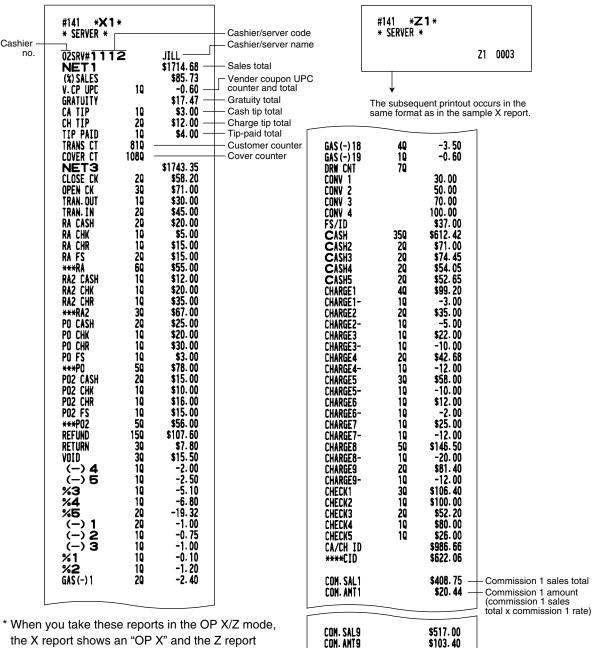
Individual cashier/server reading and resetting

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

Sample Z report



the X report shows an "OP X" and the Z report shows an "OP Z".

Full cashier/server reading and resetting

COM. TTL

NON COM.

\$151.45

\$538.80

The printout occurs in the same format as in the sample report of individual cashier/server, but all cashiers/servers' sales data are printed in the order of cashier/server code number (from #1 to #20), and then the total of all cashiers/servers is printed.

Commission amount total

Non-commission sales

total

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

Sample Z report

#160 * ×1 * Hourly *	¥			#160 * Z1 * * Hourly *		
10:00AM Cover Ct	140 210	\$159.98		Z1 0001		
AVE.		\$11.43				
10:30AM	160	\$145.50				
COVER CT	21Q					
AVE.		\$9.09		¥		
SUBTOTAL	300	\$305.48		The subsequent printout occurs in the same format as in the sample X report.		
COVER CT	420		Customer counter	same format as in the sample x report.		
11:00AM	180	\$274.06 —	Sales total			
COVER CT	270 -	VE14:00	Cover counter			
AVE.		\$15.23 —	Average sales amount per c	per customer		
11:30AM	130	\$210.00	(sales total ÷ customer coun	nter)		
COVER CT	18Q					
AVE.	210	\$16.15				
SUBTOTAL Cover CT	31Q 450	\$484.06				
LUVER LI	436					
12:00PM	10	\$10.00				
			-			
6:00PM	190	\$275.00				
COVER CT	230					
AVE.		\$14.47				
6:30PM	120	\$165.94				
COVER CT	18Q	*12 02				
AVE.	210	\$13.83				
SUBTOTAL Cover Ct	310 410	\$440.94				
LUVEN LI	414					

■ Full department report

#110 *) *DEPT			Sales q'ty
DO 1 DPT. O1 DO2 DPT. O2 DO3 DPT. O3 *DEPT TL	391.000Q 64.000Q 78.000Q 533.000Q	01-99 75. 26% \$2189. 10 5. 33% \$155. 00 19. 41% \$564. 50 \$2908. 60 100. 00%	Amount Ratio of dept. 1 sales amount to + real dept. total
DO4 DPT. O4 DEPT (-)	4.000Q 4.000Q	-11.00 -11.00	
D05 DPT. 05 I TL	6.000Q 6.000Q	\$59.00 \$59.00	
DO6 DPT. 06 HASH(-)	2.000Q 2.000Q	-17.00 -17.00	
DO7 DPT.07 *BTTL TL	28.000Q 28.000Q	\$14.00 \$14.00	
DO8 DPT. O8 BTTL (-)	10.000Q 10.000Q	-5.00 -5.00	
D09 DPT. 09 *GAS TL	21.000Q 21.000Q	267 \$566.00 267 \$566.00	
D10 DPT. 10 GAS (-)	1.0000 1.0000	-5 -10.00 -5 -10.00	

Individual group total report on department

_

#112 * ×1 * Group *	×		
DPT. O1	1.000Q 8.000Q	\$2189.10	
DPT. 03 Groupo1 46	9. 000Q	\$564.50 \$2753.60 —	— Group 1 total

Full group total report on department

	<1 * *		
GROUP01	469.0000	\$2753.60	Group 1 total
GROUP02	64.0000	\$155.00	
GROUP03	4.0000	-11.00	
GROUP04	6.0000	\$59.00	
GROUP05	2.0000	-17.00	
GROUP05	28.0000	\$14.00	
GROUP07	10.0000	-5.00	
GROUP08	21.0000	\$566.00	
GROUP09	1.0000	-10.00	

PLU/UPC report (by designated range or pick up list)

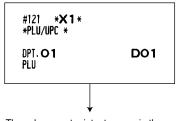
This function provides you with X and Z reports for sales information of PLUs/UPCs. You can select either of the designated range operation or pick up list operation. The range may represent all or part of the PLUs/UPCs in your register.

• Sample X	report		Sample Z report
	#120 * ×1 * *PLU/UPC *		#120 * Z1 * *PLU/UPC *
	00001- PLU	999999 —	Range*1 Z1 0003
PLU code — Item label for — price level 1	— P00001 — Plu00001 28.000 WASTE -3.000 Net SLS 25.0000	\$70.00 — -7.50 — \$62.50 — 17.41% —	Sales q'ty and total (for price level 1) Waste mode q'ty and total ^{*2} Net sales g'ty and total ^{*2} The subsequent printout occurs in the same format as in the sample X report
Item label for — price level 2	— PLU00001_2 11.0000 Waste -1.0000 Net SLS 10.0000	\$33.00 -3.00 \$30.00 85.71%	Net sales 9 v and total ² format as in the sample X report.
	PLU00001_3 11.0000 WASTE -2.0000 Net SLS 9.0000	\$38.50 -7.00 \$31.50 100.00%	*1: The PLU/UPC range is not printed in pick
	PLU00001_4 10.0000 WASTE -4.0000 NET SLS 6.0000	\$27.50 -11.00 \$16.50 100.00%	Note up report (#109). *2: Not printed when waste mode is disabled
	PLU00001_5 17.0000 Waste -1.0000 Net SLS 16.0000	\$55.25 -3.25 \$52.00	
	PLU0001_6 6.000Q Waste -2.000Q Net SLS 4.000Q	100.00% \$22.50 -7.50 \$15.00 100.00%	
	₽00002 PLU00002 26.0000 WASTE -1.0000 NET SLS 25.0000	\$26.00 -1.00 \$25.00 6.96%	
	P00210 PLU00210 6.0000 NET SLS 6.0000	\$75.00 \$75.00 20.89%	
	***TOTAL 84.0000 Waste TL -4.0000	\$367.50 -8.50 100.00%	←PLU total for price level 1
	NET TL 80.0000	\$359.00 100.00% \$38.00	
	15.0000 WASTE TL -1.0000	-3.00 100.00%	←PLU total for price level 2
	NET TL 14.0000	\$35.00 100.00% \$38.50	
	WASTE TL -2.000Q Net tl 9.000Q	-7.00 100.00% \$31.50	
	10.0000 Waste TL -4.0000	100.00% \$27.50 -11.00	
	NET TL 6.000Q	100.00% \$16.50 100.00%	
	17.0000 Waste TL -1.0000	\$55.25 -3.25 100.00%	
	NET TL 16.000Q	\$52.00 100.00%	
2	6.0000	\$22.50	

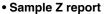
UPC code UPC code APPLE 13.0000 \$32.50 WASTE -2.0000 -5.00 NET SLS 11.0000 \$19.25 WASTE -1.0000 \$19.25 WASTE -1.0000 \$19.25 WASTE -1.0000 \$12.75 NET SLS 6.0000 \$12.75 NET SLS 3.0000 \$12.75 		WASTE TL Net tl		-7.50 100.00% \$15.00 100.00%	
3.0000 \$12.75 NET SLS 3.0000 \$12.75 22.47% 22.47%	UPC code –		13.0000 -2.0000 11.0000 7.0000 -1.0000 6.0000	-5.00 \$27.50 30.86% \$19.25 -2.75 \$16.50 62.86%	
WASTE TL -4.0000 -11.00 100.00% 100.00% NET TL 27.0000 \$89.10 10.0000 \$29.00 WASTE TL -1.0000 -2.75 100.00% 100.00% NET TL 9.0000 \$22.00 WASTE TL -1.0000 -2.75 100.00% 100.00% NET TL 9.0000 \$22.300 WASTE TL -2.0000 -6.00 100.00% 100.00% NET TL 5.0000 \$17.00 100.00% 12.0000 \$39.00 100.00% 100.00% NET TL 11.0000 \$39.00 100.00% 100.00% NET TL 11.0000 \$39.00 100.00% 100.00% NET TL 18.0000 \$70.00 100.00% 15.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% 100.00% -UPC total for price level 6 NET TL 14.0000 \$56.75		NET SLS		\$12.75 \$12.75	
NET TL 27.0000 \$89.10 100.00% 100.00% WASTE TL -1.0000 VASTE TL -2.0000 VASTE TL -1.0000 VASTE TL -1.0000				-11.00	LIPC total for price level 1
WASTE TL -1.0000 -2.75 100.00% NET TL 9.0000 \$26.25 100.00% 7.0000 \$23.00 WASTE TL -2.0000 -6.00 100.00% NET TL 5.0000 \$17.00 100.00% NET TL -1.0000 -3.50 100.00% NET TL 11.0000 \$39.00 100.00% NET TL 11.0000 \$73.75 WASTE TL -1.0000 -3.75 100.00% NET TL 18.0000 \$70.00 100.00% NET TL 18.0000 \$70.00 100.00% NET TL 18.0000 -4.00 100.00% NET TL 14.0000 \$56.75		NET TL		\$89.10 100.00%	
NET TL 9.0000 \$26.25 100.00% 7.0000 \$23.00 WASTE TL -2.0000 -6.00 100.00% 100.00% NET TL 5.0000 \$17.00 12.0000 \$42.50 WASTE TL -1.0000 12.0000 \$42.50 WASTE TL -1.0000 100.00% NET TL 11.0000 100.00% NET TL 11.0000 19.0000 \$73.75 WASTE TL -1.0000 19.0000 \$73.75 WASTE TL -1.0000 100.00% NET TL 18.0000 15.0000 \$60.75 WASTE TL -1.0000 100.00% WASTE TL -1.0000 100.00% UPC total for price level 6 NET TL 14.0000		WASTE TL		-2.75	
WASTE TL -2.0000 -6.00 100.00% NET TL 5.0000 \$17.00 100.00% 12.0000 \$42.50 WASTE TL -1.0000 -3.50 100.00% NET TL 11.0000 \$39.00 100.00% NET TL 11.0000 \$73.75 WASTE TL -1.0000 -3.75 100.00% NET TL 18.0000 \$70.00 100.00% NET TL 18.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% NET TL 14.0000 \$56.75		NET TL		\$26.25 100.00%	
NET TL 5.000Q \$17.00 100.00% 12.000Q \$42.50 WASTE TL -1.000Q -3.50 100.00% 100.00% NET TL 11.000Q \$39.00 100.00% 19.000Q \$73.75 WASTE TL -1.000Q -3.75 100.00% 100.00% NET TL 18.000Q \$70.00 100.00% 15.000Q \$60.75 WASTE TL -1.000Q -4.00 100.00% 100.00% VASTE TL 14.000Q \$56.75		WASTE TL		~6.00	
WASTE TL -1.0000 -3.50 100.00% NET TL 11.0000 \$39.00 100.00% 19.0000 \$73.75 WASTE TL -1.0000 -3.75 100.00% NET TL 18.0000 \$70.00 100.00% 15.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% VPC total for price level 6 NET TL 14.0000 \$56.75		NET TL		\$17.00 100.00%	
NET TL 11.0000 \$39.00 100.00% 19.0000 \$73.75 WASTE TL -1.0000 -3.75 100.00% NET TL 18.0000 \$70.00 100.00% 15.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% VPC total for price level 6 NET TL 14.0000 \$56.75		WASTE TL		-3.50	
WASTE TL -1.0000 -3.75 100.00% NET TL 18.0000 \$70.00 100.00% 15.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% WASTE TL 14.0000 \$56.75		NET TL		\$39.00 100.00%	
NET TL 18.0000 \$70.00 100.00% 15.0000 \$60.75 WASTE TL -1.0000 -4.00 100.00% VPC total for price level 6 NET TL 14.0000 \$56.75		WASTE TL		-3.75	
WASTE TL -1.0000 -4.00 100.00% -UPC total for price level 6 NET TL 14.0000 \$56.75		NET TL	18.0000	\$70.00 100.00%	
NET TL 14.000Q \$56.75		WASTE TL		-4.00	UPC total for price level 6
		NET TL	14.0000	\$56.75	

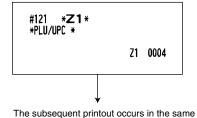
PLU/UPC report by associated department

• Sample X report



The subsequent printout occurs in the same format as th ePLU/UPC report by designated range.





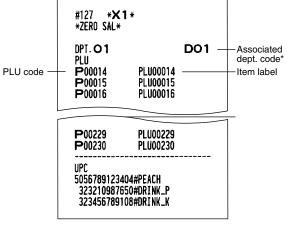
format as in the sample X report.

Individual group total report on PLU/UPC

Full group total report on PLU/UPC

and amount	PLU code Item label for price level 1	#122 *X1 * *PLU/UPC * PLU P00001 25.0000 \$62.5 PLU00001_2 10.0000 \$30.6 PLU00001_2 10.0000 \$31.6 PLU00001_3 9.0000 \$31.5 PLU00001_4 6.0000 \$15.6 PU00002 25.0000 \$25.6 PU00002 25.0000 \$25.6 PU00003 2.0000 \$4.6 P00003 PLU00005 2.0000 \$5.6 PU00005 2.0000 \$5.6 PU00005 2.0000 \$5.6 PU00005 2.0000 \$5.6 PLU00005 2.0000 \$5.6 PU00005 2.0000 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU0005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU0005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU00005 \$5.6 PLU0005 \$5.6 PL	amount for price level 1	Group text –	#123 *X1 * *PLU/UPC * PLU GR01 243.0000 PLU GR02 42.0000 PLU GR03 19.0000 PLU GR05 192.0000 PLU GR06 28.0000 PLU GR07 34.0000 PLU GR08 34.0000 PLU GR09 36.0000 PLU GR10 149.0000 PLU GR11 62.0000 PLU GR12 17.0000 PLU GR98 26.0000 PLU GR99 38.0000	\$735.60 \$245.00 \$61.10 \$40.00 \$173.00 \$387.50 \$377.50 \$473.50 \$93.10 \$34.00 \$147.50 \$291.50	Sales q'ty and amount for PLU group 11
------------	--	---	-----------------------------	--------------	---	--	--

PLU/UPC zero sales report by department



* When printing full zero sale report, no associated dept. code is printed.

PLU/UPC price category report

			1
#129 * X *Category+			
	0.01-	9.99 —	Price amount
PLU 100001			range
PLU00001	27.0000	\$67.50 —	- Sales q'ty
PLU000012 PLU000013		\$30.00 \$31.50	and total (for price
PLU00001_4	6.0000	\$16.50	level 1)
PLU00001_5 PLU0001_6		\$52.00 \$15.00	
P00002	4.0004	\$12.00	
DI 1100010	15 0000	A120_00]
PLU00013	15.000Q	\$120.00	
***TOTAL	171.0000	\$430.00	
	14.0000 9.0000	\$35.00 \$31.50	
	6.0000	\$16.50	
	16.000Q 4.000Q	\$52.00 \$15.00	
UPC			
501234567		AD7 50	
APPLE Apple_2	11.000Q 6.000Q	\$27.50 \$16.50	
APPLE_3	1.0000	\$3.00	
APPLE_4 Apple_5	9.000Q 8.000Q	\$31.50 \$30.00	
APPLE_6	11.000Q	\$44.00	
5045678912	2304#		J
GRAPE_6	3.000Q	\$12.75]
	07 0000	*00.10	
***TOTAL	27.000Q 9.000Q	\$89.10 \$26.25	
	5.0000	\$17.00	
	11.0000 18.0000	\$39.00 \$70.00	
	14.0000	\$56.75	

PLU/UPC stock report (by designated range or pick up list)

#124 * > * Stock			
PLU	00001-	999999 -	Range
P00001 PLU00001	38. 000S		Current stock
P00002 PLU00002 P00003	34. 000S	\$34.00	
PL00003	63. 000S	\$126.00	
P00004 PLU00004	56.000S	\$168.00	
PLU00230	0.000S	\$0.00	1
UPC 501234567 APPLE 504567891	63.000S	\$157.50	

Note

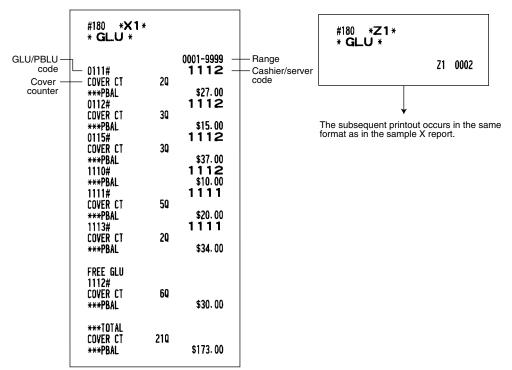
The PLU/UPC range is not printed in pick up report (#104).

Commission sales report

		1
#132 * ×1 *		
* SALES *		
COM. SAL1	\$1025.75 —	Commission 1
COM. AMT1	\$51.29 —	(sales total)
COM. SAL2	\$96.00	Commission 1
COM. AMT2	\$6.72	(amount)
COM. SAL3	\$554.50	
COM. AMT3	\$44.36	
COM. SAL4	\$115.00	
COM. AMT4	\$11.50	
COM. SAL5	\$7.50	
COM. AMT5	\$0.90	
COM. SALG	\$6.25	
COM. ANT6	\$0.81	
COM. SAL7	\$26.00	
COM. AMT7	\$3.90	
COM. SAL8	\$30.00	
COM. ANT8	\$5.10	
COM. SAL9	\$156.00	
COM. ANT9	\$31.20 🛛	- Commission amount
COM. TTL	\$155.78 🚽	total
NON COM.	\$696.10 —	-Non-commission sales
	#3606 31	Net ealer total
NET1	\$2696.21 —	-Net sales total



Sample X report



■ GLU/PBLU report by cashier/server

Sample X report

#181 *X1* * GLU *		
01\$ RV#1 1 1 1		DICK
1111# Cover Ct ***PBAL 1113#	59	\$20.00
COVER CT ***PBAL	20	\$34.00
FREE GLU 1112# Cover CT ***PBAL	69	\$30.00
***TOTAL Cover Ct ***PBAL	130	\$84.00

Sample Z report



The subsequent printout occurs in the same format as in the sample X report.

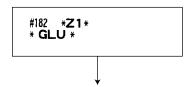
Sample Z report

■ Closed GLU/PBLU report

Sample X report

#182 * X 1 * * GLU *		
0203# TBL#111		0001-9999 1111
COVER CT Cash TIP Amt	30	\$33.92 \$0.00
FIN.BAL 0204# TBL#111	1	\$33.92 1 1 1 1
COVER CT Charge1 TTP AMT	30	\$34.98 \$5.00
FIN. BAL 0205#		\$39.98 11111
TBL#111 Cover Ct Charge2	20	\$10.60
FIN. BAL		\$50.88
***TOTAL Cover Ct	33Q 3Q	\$54.60
CASH CASH2 CASH5	10 10	\$20.14 \$23.32 \$27.56
CHECK1 Check2 Charge1	10 10 20	\$12.72 \$60.42
CHARGE2 Charge3 Conv 1	10 10 10	\$10.60 \$38.16 50.00
FSSALE TIP AMT FIN.BAL	10 20 120	\$30.00 \$9.00 \$348.52

Sample Z report



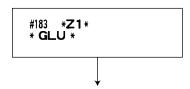
The subsequent printout occurs in the same format as in the sample X report.

■ Closed GLU/PBLU report by cashier/server

Sample X report

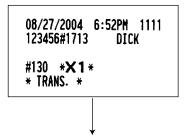
#183 *X1* * GLU *		
01SRV# 1 1 1 1 0203#		DICK
TBL#111 COVER CT	0 3Q	
CASH TIP AMT FIN. BAL		\$33.92 \$0.00 \$33.92
0204# TBL#111	1	433. 32
COVER CT Charge1	30	\$34. 98
TIP AMT		\$5.00
TIP AMT Fin. Bal		\$0.00 \$23.32
***TOTAL		
COVER CT Cash	240 20	\$65.72
CASH2 CASH5 CHECK1	10 10 10	\$20. 14 \$23. 32 \$27. 56
CHECK2 CHARGE1	10 10	\$12.72 \$34.98
CHARGE2 CHARGE3	10 10	\$10.60 \$38.16
TIP ANT FIN.BAL	20 90	\$9.00 \$242.20

Sample Z report



The subsequent printout occurs in the same format as in the 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.

Tax report

Г

	#133 *X1* * TAX *	
*1 [*2 [*3 [TAX1 ST GRS TAX1 RFD TAX1 TAX1 TX1 EXPT TAX2 ST GRS TAX2 RFD TAX2 TAX2 TX2 EXPT TAX3 ST GRS TAX3 RFD TAX3 TAX3 TAX3 TAX3 EXPT TAX4 ST GRS MTAX4 RFD TAX4 RFD TAX4 GRS MTAX4 RFD TAX4 GST EXPT MTAX M-TAX GST EXPT ST TTL FS TX1 FS TX2 FS TX3	\$2463.85 \$158.14 -4.08 \$154.06 \$132.50 \$412.50 \$16.90 -0.40 \$16.50 \$80.00 \$370.00 \$26.60 -0.70 \$25.90 \$20.00 \$370.00 \$370.00 \$38.00 -1.00 \$37.00 \$2.50 -1.00 \$1.50 \$293.00 \$16.90 \$15.00 \$48.00 \$30.00 \$30.00 \$30.00

*1 Not printed when food stamp function is allowed.

*2 Printed only when Canadian tax is selected.

*3 Not printed when Canadian tax is selected.

■ Cash in drawer report

You can take full cashier X reports for cash in drawer.

#131 *X1* * CID * 01SRV#1 1 1 1 TRANS CT 280 - NET3 ****CID 02SRV#1 1 12 TRANS CT 390 NET3 ****CID	DICK	Cashier no. Cashier name Customer count Sales total Cash in drawer
TOTAL TRANS CT 670 NET3 *CID	\$2969.42 \$1730.15	

Dynamic UPC report (by designated range or pick up list)

The printout occurs in the same format as in the sample report of PLU/UPC report (by designated range or pick up list) .

Dynamic UPC report by associated department

The printout occurs in the same format as in the sample report of PLU/UPC report by associated department.

Dynamic UPC clear (by designated range or pick up list)

Please note that the UPCs specified for this report are deleted from the dynamic UPC file when Z report is issued.

The printout occurs in the same format as in the sample report of PLU/UPC report (by designated range or pick up list).

Dynamic UPC clear by associated department

Please note that the UPCs specified for this report are deleted from the dynamic UPC file when Z report is issued.

The printout occurs in the same format as in the sample report of PLU/UPC report by associated department.

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.



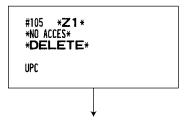
The following job code numbers (only) can be used for stacked report printing. Job code number: 100, 110, 113, 120, 124, 127, 129, 130, 131, 132, 140, 160, 180 Refer to "Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence" for further details.

Deleting of non-accessed UPCs

• Sample X report (Reading)

		K1*	
	*NO ACCES	; *	
	UPC		
UPC code —	- 501234567	/8900#	
Item label —	- APPLE	0.0000	\$0.00
Periodic sales* —	— * Z2*	22.0000	\$55.00
	WASTE	-4.0000	-10.00
	NET SLS	18.000Q 0.000Q	\$45.00 \$0.00
	72	11.0000	\$30.25
	WASTE	-2.0000	-5.50
	NET SLS	9.0000	\$24.75
	APPLE_3	0.00Q	\$0.00
	Z2	5.000Q	\$15.00
	WASTE	-5.0000	-15.00
	APPLE_4 *Z2*	0.0000 11.0000	\$0.00 \$38.50
	WASTE	-2.0000	-7.00
	NET SLS	9.0000	\$31.50
	APPLE_5	0.0000	\$0.00
	Z2	10.0000	\$37.50
	WASTE	-6.0000	-22.50
	NET SLS Apple_6	4.000Q 0.000Q	\$15.00 \$0.00
	Z2	13.0000	\$52.00
	WASTE	-5.0000	-20.00
	NET SLS	8.000Q	\$32.00
	505678912		
	PEACH	0.0000	\$0.00
	32321098 Drink_p	0.000Q	\$0.00
	32345678		\$0.00
	DRINK_K	0.0000	\$0.00

• Sample Z report (Deleting)



The subsequent printout occurs in the same format as in the sample X report.

*: 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.

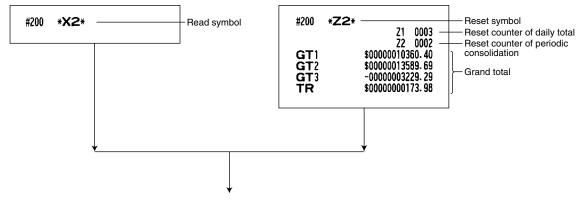
3 Periodic consolidation

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".)

Sample X report



The subsequent printouts are the same in format as those in the X/Z report for daily total.

Daily net report

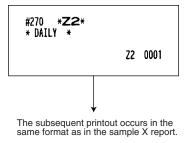
Sample X report

#270 * % : * DAILY *	2*	
08/01	57Q	\$1732.00
08/02	64Q	\$2146.00
08/03	58Q	\$1384.53
08/30	61Q	\$2163.50
08/31	59Q	\$1935.31
***TOTAL	13020	\$44761.34

*: Overflowed data will be printed with the indication of **/** at the date column.

Sample Z report

Sample Z 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.

Note

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, 240, 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

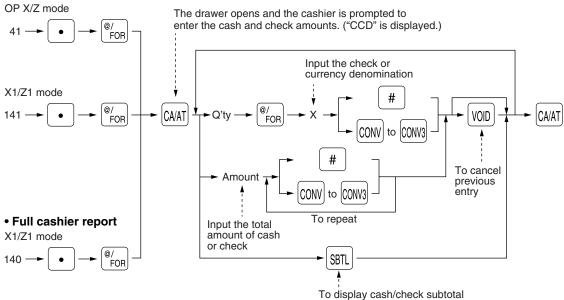


- Compulsory cash/check declaration is available in the above two types. You can choose either of these. Please consult your dealer for further details.
- When the cash/check declaration is compulsory, flash reports are not available.

Key operation

After the CHAT key is pressed, the register prompts the cashier to input the cash and check accounts for both domestic and foreign currency. The cashier can simply input the total amounts of each currency unit, or the number of bills or coins of each denomination of each currency unit.

• Individual cashier report



: When inputting the cash or check amount (domestic currency) in the drawer

		7
#141 * 21 * * CCD * CA/CH IS CONV1 IS CONV2 IS * SERVER *	\$920.98 100.00 28.00	CCD entry amount
01SRV#1111 NET1 TRANS CT 430	21 0005 DICK \$1135.00	
COVER CT 430 NET3 73 RA CASH 10 ***RA 10 90 PO CASH 10 ***PO 10 50 VOID 50 50	\$1135.00 \$58.00 \$58.00 \$45.00 \$45.00 \$45.00 \$107.68	
DRW CNT 1250 CONV 1 CONVI IS CCD DIF. CONV 2 CONV2 IS CCD DIF. CONV 3 CONV 2	100.00 - 100.00 - 28.00 28.00 0.00 0.00	Currency conversion 1 in drawer to be obtained Total of entered (declared) conversion 1 in drawer Difference
CONV3 IS CCD DIF. CASH 38Q CHARGE1 2Q CHECK1 3Q CA/CH ID CA/CH IS CCD DIF. DIF. TL ****CID	0.00 0.00 \$963.00 \$94.00 \$920.98 \$920.98 \$0.00 \$0.00 \$826.98	Check 1 (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. SAL 1 Com. Ant 1 Com. TTL	\$1135.00 \$56.75 \$56.75	

OPERATOR MAINTENANCE

1 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.

F001 (-) 1	-10.00
S	L13
F002 (-) 2	-0. 00
I	L17
F006 %1	-10. 25%

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. 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. 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.

Printing position Head-up position

- 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.
- Be very careful when handling the thermal paper. If you want to keep a permanent record, copy the printed text with a photocopier.
- For the storage of thermal paper, it is recommended to store the paper in a box with a dark and dry atmosphere of the room temperature 5 to 25°C having no rapid temperature change.

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

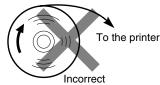
Paper width:	2.26 ± 0.02 in. (57.5 ± 0.5 mm)	
Max. outside diameter:	3.15 in. (80 mm)	
Quality:	Thermal paper	
Paper tube:	0.71 in. (18 mm)	

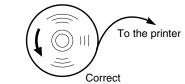
• Be sure to set paper roll(s) prior to using your machine, otherwise it may cause a malfunction.

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)

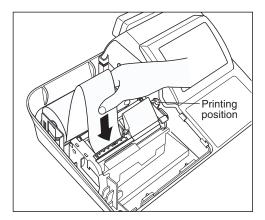


Correct

Incorrect

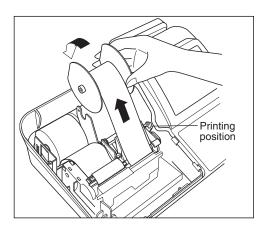
Installing the paper roll

Installing the receipt paper roll



- **1.** 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



- **1.** 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 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.
- 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.

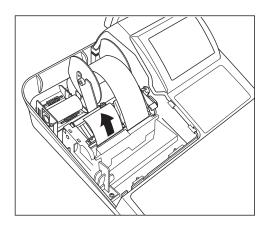
Note

If nothing is printed when printing is performed, check the printing face of the paper is at the outer side. Also in case nothing is printed on the receipt side, please check if the receipt on/off function is set to on.

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

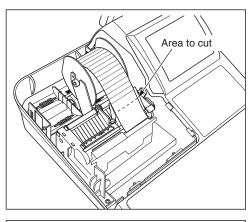


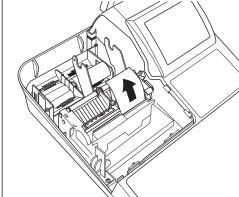
- **1.** Remove the printer cover.
- **2.** Cut the paper behind the printer and near the paper roll.
- **3.** Press the key until the paper remaining in the printer comes out completely.
- 4. Remove the paper roll from the back of the printer.



Do not pull the paper through the printer.

Removing the journal paper roll



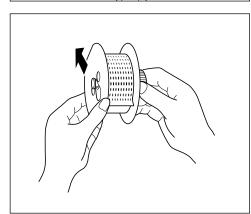


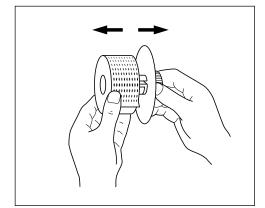
- **1.** Remove the printer cover.
- **2.** Press the key to advance the journal paper until its printed part is out of the way.
- **3.** Cut the paper and remove the take-up spool.

- 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.

7. Remove the outer side of the take-up spool as shown on the left.

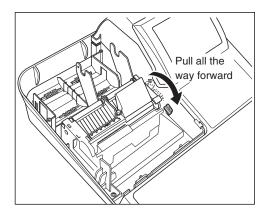




8. Remove the printed journal roll from the take-up spool.

Removing a paper jam

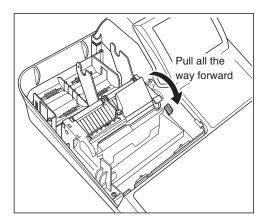
Precaution: Be very careful with the manual paper cutter, so as not to cut yourself. Never touch the print head immediately after printing, because the head may still be hot.



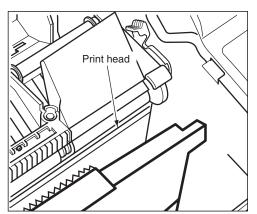
- **1.** Remove the printer cover.
- **2.** Pull the print head release lever all the way forward (after it stops at one position, continue pulling forward until it stops again and cannot be pulled forward any further).
- **3.** Remove the paper jam. Check for and remove any shreds of paper that may remain in the printer.
- 4. Return the print head release lever to its original position.
- **5.** Reset the paper roll(s) correctly by following the steps in "Installing the paper roll".
- **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).



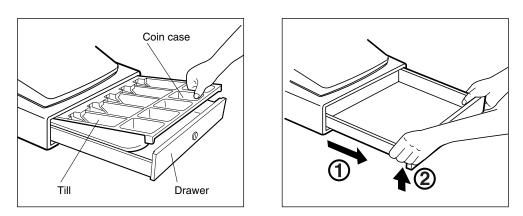
- **4.** Clean the print head with a soft rag moist with ethyl alcohol or isopropyl alcohol.
- **5.** Return the print head release lever to its original position immediately after cleaning.
- **6.** Reset the paper roll correctly by following the steps in "Installing the paper roll".
- **7.** Replace 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.

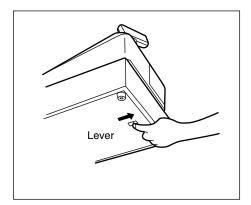
6 Removing the till and the drawer

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.



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 ERRO	
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 server/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 GLU/PBLU entry	PB COMPUL.
14	(Reserved)	
15	Compulsory cover count entry	COV CNT COMP
16	Check edit error (for manual PB entry)	C/D ERROR
17-19	(Reserved)	
20	Remote printer off line	OFF LINE
21	(Reserved)	
22	Overlapped server/cashier error	SERVER ERR.
23-26	(Reserved)	
27	Power off	POWER OFF
28-29	(Reserved)	
30	Compulsory tender entry for tip	TIP ERROR
31	Compulsory non-add code	# COMPULSORY
32	The server/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
39-47	(Reserved)	
48	Enter check number	ENTER CHECK#
49	Enter cover count	COVER COUNT
50	(Reserved)	
51	Weight on scale	WEIGHT
52	Closed check file is full.	C.FILE FULL
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.	$PRICE \to DEPT$
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	PLU/UPC file is full.	UPC FULL
72-73	(Reserved)	
74	Non-accessed UPC delete job	DELETE
75	(Reserved)	
76	Closing the drawer is compulsory.	CLOSE DRAWER
77	Price level shift error	ENTER P.SFT
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)	

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 models ER-03DW and ER-04DW
- •Till model ER-55CC2 for the standard cash drawer
- •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 ER-51DK7G: 10 5 x 1 size dummy key kits

for ER-A520 only

- Display model UP-P16DP
- •RAM board model UP-S02MB

SPECIFICATIONS

Model:	ER-A520/A530			
Dimensions:	16.6 (W) x 16.8 (D) x 11.7 (H	I) in. (421 (W) x 427 (D) x 297 (H) mm)		
Weight:	31.7 lbs (14.4 kg)			
Power source:	120V ± 10% AC, 60Hz			
Power consumption:	Stand-by 11 W	Stand-by 11 W		
	Operating 47 W (max.)			
Working temperature:	32 to 104°F (0 to 40°C)			
Electronics:	LSI (CPU) etc.			
Built-in battery:	Rechargeable battery, memo	Rechargeable battery, memory holding time about 1 month		
	(with fully charged built-in ba	(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:				
Туре:	2-station thermal printer			
Printing speed:	Approx. 17 lines/second			
Printing capacity:	30 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: 2.26 ± 0.02 in. (57.5 ± 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 5 for coin denominations			
Accessories:	Manager key	2		
	Submanager key	2		
	Operator key	2		
	Drawer lock key	2		
	Printer cover lock key	2		
	Paper roll	2		
	Take-up spool	1		
	Standard key sheet	1 (provided with the keyboard) for EB A520 only		
	Programming key sheet	1 (provided with the keyboard) for ER-A530 only		
	Ferrite cores	2 (used for connection cabling installation)		
	Leaflet	1 copy		

* Specifications and appearance subject to change without notice for improvement.

NOTICE

BE SURE TO ASK YOUR AUTHORIZED SHARP DEALER ABOUT THE WARRANTY THAT YOUR SELLING DEALER EXTENDS TO YOU. In order to assure you, the end-user, of warranty protection, Sharp extends a limited warranty to each of its authorized dealers, and in turn requires each of its authorized dealers to extend its own warranty to you on terms that are no less favorable than those given to the dealer by Sharp. You should be aware, however, that Sharp does not itself extend any warranties, either express or implied, directly to you, the end-user, and no one is authorized to make any representations or warranties on behalf of Sharp. Specifically, SHARP DOES NOT EXTEND TO YOU, THE END-USER, ANY EXPRESS WARRANTY OR ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR USE OR FITNESS FOR ANY PARTIC-ULAR PURPOSE IN CONNECTION WITH THE HARDWARE. SOFTWARE, OR FIRMWARE EMBODIED IN OR USED IN CONJUNCTION WITH THIS PRODUCT. Sharp is not responsible for any damages or loss, either direct, incidental or consequential, which you, the end-user, may experience as a result of your purchase or use of the hardware, software or firmware embodied in or used in conjunction with this product. Your sole remedy in the event that you encounter any difficulties with the product is against the authorized dealer from which you purchased the product. In the event that this authorized dealer does not honor its warranty commitments, please contact the General Manager of Sales, Retail and Financial System Division, ISG, Sharp Electronics Corporation, Sharp Plaza, P.O. Box 650, Mahwah, NJ 07430-2135 so that Sharp can try to help you to assure complete satisfaction of all the warranty rights to which you are entitled from the authorized dealer.



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