

ELECTRONIC CASH REGISTER CAISSE ENREGISTREUSE ELECTRONIQUE

MODEL ER-A320

INSTRUCTION MANUAL

MANUEL D'INSTRUCTIONS



CAUTION

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

ATTENTION

La prise de courant murale devra être installée à proximité de l'équipement et être facilement accessible.

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A320. Please read this manual carefully before operating your machine in order to gain a full understanding of its functions and features.

Please keep this manual for future reference. It will help you if you encounter any operational problems.

IMPORTANT

- Install your cash register in a location that is not subject to direct radiation, unusual temperature changes, or 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 thinner. The use of such chemicals will lead to discoloration or deterioration of the cabinet.
- The register plugs into any standard wall outlet (local voltage ± 10% AC).

 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, pull out the mains plug.

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is operated by a rechargeable battery pack.

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

In order to charge the battery pack, the machine must be plugged in and its power switch must be set to the "ON" position. This recharging precaution can prevent unnecessary initial service calls.

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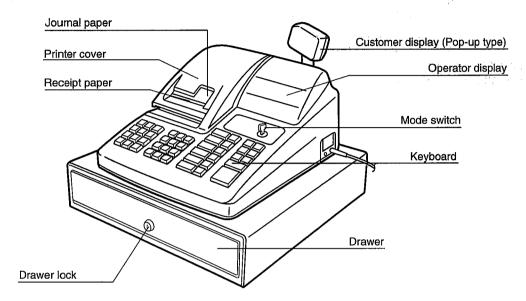
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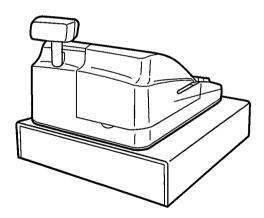
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EXTERNAL VIEW

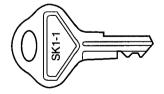
■ Front view



■ Rear view

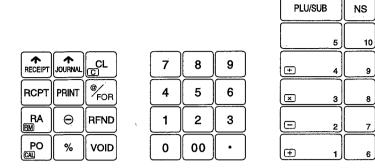


■ Drawer lock key



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

KEYBOARD



Note

All the keys but the numeric, clear, decimal point, multiplication/split pricing, non-add/time dispay/subtotal, cash/amount tendered/equals, and two paper feed keys can be changed in their positions. If you want to change the layout, contact your dealer.

TAX1 SHIFT

СН

MDSE SBTL

 \equiv

AUTO

CONV

CHK

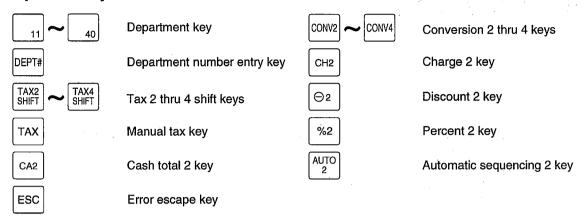
#/TM/SBTL

CA/AT

■ Standard keys

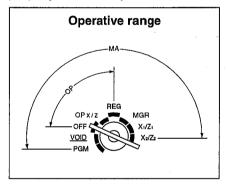
RECEIPT	Receipt paper feed key	RCPT	Receipt print key
JOURNAL	Journal paper feed key	Θ	Discount key
0 ~ 9		AUTO	Automatic sequencing key
00	Numeric keys	%	Percent key
•	Decimal point key	NS	No-sale key
FOR	Multiplication/split-pricing key	RA	Received-on-account/recall memory key
CL	Clear key	PO	Paid-out/calculation mode key
PRINT	Validation print key	RFND	Refund key
	Department 1/plus key	VOID	Void key
<u> </u>	Department 2/minus key	СН	Charge key
X 3	Department 3/multiplication key	СНК	Check key
+ 4	Department 4/division key	CONV	Conversion key
5 ~ 10	Department keys	MDSE SBTL	Merchandise subtotal key
PLU/SUB	Price lookup/subdepartment key	#/TM/SBTL	Non-add/time display/subtotal key
TAX1 SHIFT	Tax 1 shift key	CA/AT	Cash/amount tendered/equals key

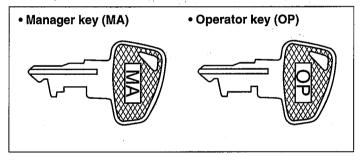
Optional keys



MODE SWITCH AND MODE KEYS

The mode switch can be operated by inserting one of the two supplied mode keys - manager (MA) 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: The OFF mode locks all register operations.

No change occurs to register data in this mode.

OP X/Z: This setting allows cashiers to take flash reports (only when your register has been programmed for

"OP X/Z mode available" in the PGM mode). It can also be used to display the time, print the

employee arrival and departure times, or toggle receipting function status "ON" and "OFF" by pressing

the RCPT key.

REG: For entering sales

PGM: To program various items

VOID: This setting allows correction after finalizing a transaction.

MGR: For manager's entries

The manager can use this mode for an override entry.

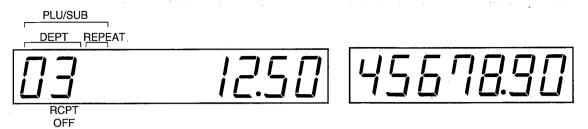
X1/Z1: To take the X/Z report on various daily totals

X2/Z2: To take the X/Z report on various periodic (weekly or monthly) consolidation

DISPLAYS

Operator display

Customer display (Pop-up type)



Amount:

Appears in the far-right eight (max.) positions.

Number of repeats for repetitive registrations:

The number of repeats is displayed, starting at "2" and incremented with each repeat.

When you have registered ten times, the display will show "0."

Example: (2->3->4.....9->0->1->2...)

Receipting function status:

The indicator " " appears in the ninth position when the receipting function is put in the

OFF status.

Time:

Appears in the far-right six positions ("A"-hour-minute or "P"-hour-minute) in the OP X/Z, REG, MGR, or VOID mode. "A" is displayed in the morning (AM), and "P" in the afternoon

(PM). In the REG, MGR, or VOID mode, press the #TMSBTL key to display the time.

■ Machine state symbols

P: Appears in the tenth place during programming.

 \mathcal{E} : Appears in the tenth place when an error is detected.

(Floating): Appears when a minus department or PLU/subdepartment entry is made or when a discount,

refund, or void entry is made.

a: Appears in the tenth place when the tax-included subtotal is displayed or when the amount

tendered is smaller than the sale amount.

∠: Appears in the tenth place when the com thru com thru com the com thru com thru com the com thru com th

currency or your register is in the calculation mode.

F: Appears when a transaction is finalized by pressing the [CAMT], [CA2], [CHK], [CH], or [CH2] key.

☐: Appears when the change due amount is displayed.
☐: Appears when the validation printing is compulsory.

BEFORE OPERATING THE CASH REGISTER

This chapter describes those steps required to take when you use the cash register for the first time.

1 Installing the cash register

Unpack the cash register and place it in a location near a wall outlet. Be sure to locate it in such a location as described in "IMPORTANT."

2 Preparing the paper roll and the ink roller

Before using the cash register, make sure the receipt and journal paper rolls are properly installed. For installing the receipt and journal paper rolls, follow the steps described in "3. Installing and removing the paper roll" under "MAINTENANCE."

FOR THE OPERATOR

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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 "3. Installing and removing the paper rolls" under "MAINTENANCE."

Receipting function

You can disable receipt printing in the REG mode to save paper using the receipting function. To disable receipt printing, press the receipt printing status on and OFF. To check the receipt printing status, turn the mode switch to the OP X/Z position or press the CL key in the REG mode. When the function is in the OFF status, the receipt off indicator "_" illuminates. Even if the function is in the OFF status, the register prints reports, so always install a receipt roll regardless of the status.

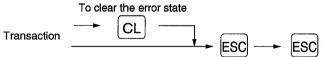
2 Error warning

In the following examples, your register will go into an error state accompanied with a warning beep and the error symbol "F" on the display. Clear the error state by pressing the CL key and take proper action.

- When you enter an over 13-digit number (entry limit overflow): Cancel the entry and re-enter a correct number.
- When you make an error in key operation: Clear the error and continue operation.
- 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 can be rung up in the MGR mode. Contact your manager.
- When an including-tax subtotal exceeds eight digits: Delete the subtotal by pressing the CL key and press the CNAT, CA2, CHK, CH, or CH2 key to finalize the transaction.

■ Error escape function

When you want to quit a transaction because of an error or something uncontrollable, use the error escape function as shown below:



The transaction is voided and the receipt is issued by this function. If you have already entered tendered amount, the operation is finalized as a cash sale.

ENTRIES

1 Item entries

■ Single item entries

Procedure

Department entries (direct 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

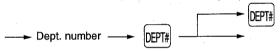
Note

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

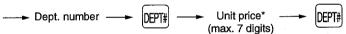
Department entries (indirect entries)

Enter a department number and press the key.

When the open price entry type is selecte



Department entries (open price entries)



*Less than the programmed upper limit amounts

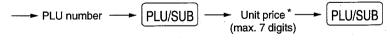
PLU entries

Enter a PLU number and press the PLU/SUB key.

Note

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

Subdepartment (open PLU) entries

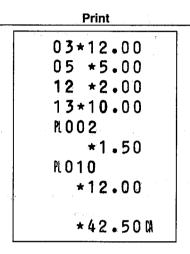


*Less than the programmed upper limit amounts

Example Selling these items for cash

Dept./PLU no.	Unit price
Dept. 3	\$12.00
Dept. 5	(\$5.00)
Dept. 12	(\$2.00)
Dept. 13	\$10.00
PLU no. 2	(\$1.50)
PLU no. 10	\$12.00

Key operation 1200 3 13 PET# 1000 PET# 2 PLU/SUB 10 PLU/SUB 1200 PLU/SUB



■ Repeat entries

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

Example Selling these items for cash

Dept./PLU no.	Unit price	Q'ty	
Dept. 5	\$2.00	2	_
Dept. 13	\$7.15	2	
PLU no. 51	(\$2.85)	2	
PLU no. 6 (Subdept.)	\$5.00	2	

Key ope	ration
Repeated dept. entry (direct) Repeated dept. entry (indirect) Repeated PLU entry Repeated subdept. entry	\$ 200 5 5 13 0EPT8 715 0EPT8 0EPT8 51 PLU/SUB 6 PLU/SUB 500 PLU/SUB CAAT

Print
05 *2.00
05 *2.00
13 *7.15
13 *7.15
NO51
*2.85
R051
*2.85
PLO 0 6
*5.00
PLO 0 6
*5.00
*34.00 CA

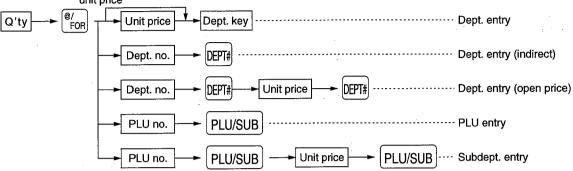
Multiplication entries

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

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

Procedure

When using a programmed unit price



- Q'ty: Up to six digits (integer + decimal)
- Unit price: Less than a programmed upper limit
- Q'ty x unit price: Up to eight digits

Example

Selling these items for cash

Dept./PLU no.	Unit price	Q'ty
Dept. 3	\$1.65	7.5
Dept. 14	(\$3.00)	8.25
PLU no. 13	(\$2.10)	15
PLU no. 60 (Subdept.)	\$1.00	. 3

Key operation

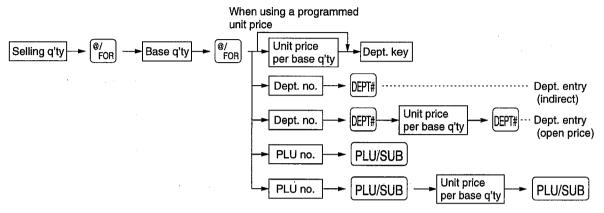
7 • 5 ° FOR 165 3
8 • 25 ° FOR 14 DEPTE 15 ° FOR 13 PLU/SUB 3 ° FOR 100 PLU/SUB 100 PLU/SUB CA/AT

Print			
7.5	Q		
1.65	@		
03*12.38			
8.25	Q		
3.00	@		
14*24.75	٠.		
15	Q		
2.10	@		
PLO13			
*31.5 0			
3	Q		
1.00	@		
PL060			
*3.00			
*71.63G	A		

■ Split-pricing entries

You will use this function when your customer wants to purchase more or less than the base quantity of a loose item.

Procedure



- Selling quantity: Up to six digits (integer + decimal)
- Base quantity: Up to two digits (integer)

Example

Selling these items for cash

Dept./PLU no.	
Dept. 3	
PHI no 17	

Base q'ty, unit price per base q'ty
Ten pieces, \$6.00
Five pieces, \$3.00 (programmed)

Selling q'ty 7 pieces 8 pieces

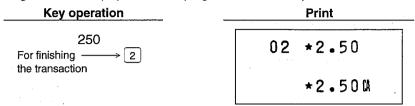
7 (For 10 For 10

■ Single item cash sale (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 programmed for SICS or to PLUs or
 subdepartments associated with them.
- The transaction is finalized and the drawer opens as soon as you press a department key, per key or PLU/SUB key.

Example

Selling a \$2.50 item (department 2, programmed for SICS) for cash



Note

If a ring-up to a department or PLU/subdepartment programmed for SICS follows the ones to departments or PLUs/subdepartments not programmed for SICS, it does not finalize and results in a normal sale.

2 Display of subtotals

Your register provides these three types of subtotals:

Merchandise subtotal

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

■ Taxable subtotal

Taxable 1 subtotal

Press the [same] and [#TM/SBTL] 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 ATMINIST. 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 (string) and (#TIM/SBTL) 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 And ATM/SBTL 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 #TIMSBIL key at any point during a transaction. The sale subtotal including tax and the symbol "a" will appear in the display.

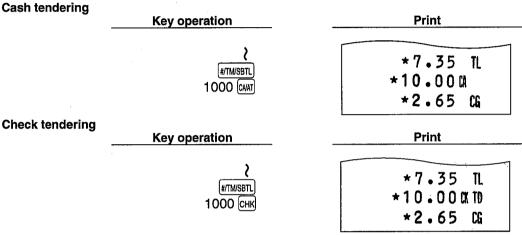
Finalization of transaction

■ Cash or check tendering

Press the #/TM/SBTL key to get an including-tax subtotal, enter the amount tendered by your customer, then press the CHAT or CA2 key if it is a cash tender or press the CHK 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 symbol "[" will light up. Otherwise your register will show a deficit and the symbol "a" will light up.

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

Cash tendering



■ Mixed tendering (check + cash)

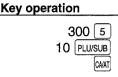
Example Your customer pays \$10.00 by check and \$5.00 in cash for an including-tax subtotal of \$14.56.

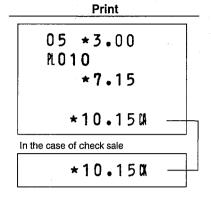
Key operation	Print	
#/TM/SBTL 1000 CHK 500 CAAT	*14.56 TL *10.00 CK TD *5.00 CA *0.44 CG	

Cash or check sale that does not need any tender entry

Enter items and press the [MK] or [CA2] key if it is a cash sale or press the [CHK] key if it is a check sale. Your register will display the total sale amount and the symbol "F."

Example Selling a \$3.00 item (department 5) and another \$7.15 item (PLU no. 10) for cash





Charge (credit) sale

Enter items and press the corresponding charge keys (CH and CH2).

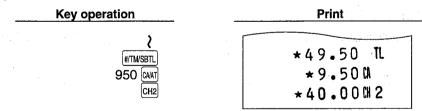
Selling a \$32.50 item (department 3) and accepting the payment by charge 1 account

Amount tendering operations (i.e., change calculations) can be achieved by the CH or CH2 key when your register has been programmed to allow for it.

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

Example

Your customer pays \$9.50 in cash and \$40.00 by charge 2 for an including-tax subtotal of \$49.50.



Note

Press the CHK key, the CH or CH2 key in place of the CMAT key when your customer makes payment by checks or by charge account.

Tax calculations

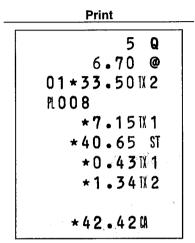
Automatic tax

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

Example Selling five \$6.70 items (department 1, taxable 2) and one \$7.15 item (PLU no. 8, taxable 1) for cash

6	5 70	e/ FOR
8	PLU	/SUB
		CA/AT

Key operation

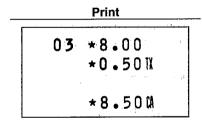


Manual tax

Your machine allows you to enter tax manually after an item entry.

Selling an \$8.00 item (department 3) for cash with 50 cents as tax

rey (operation	
	800	
	50	
		CAVA



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 TAX key after the subtotal is displayed.

Example)

Selling a \$7.25 item (department 1, taxable 2) and another \$5.15 item (department 4, taxable 1) for cash and entering the sale as a non-taxable one

Key operation Print	
725 1 515 4 TAX: #/TM/SBTL TAX: #/TM/SBTL TAX: #/TM/SBTL TAX: CAAI	01 *7.25 IX 2 04 *5.15 IX 1 *0.00 IX 1 *0.00 IX 2

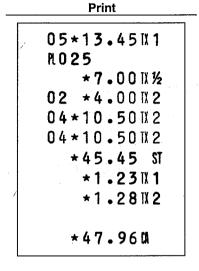
Tax status shift

Your machine allows you to shift the programmed tax status of each department, \bigcirc and \bigcirc z, percent key, or the PLUSUB key by pressing the After each entry is completed, the programmed tax status of each key is resumed.

Example

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

- One \$13.45 item of department 5 (non-taxable) as a taxable 1 item
- One \$7.00 item of PLU no. 25 (non-taxable) as a taxable 1 and 2 item
- One \$4.00 item of department 1 (taxable 2) as a non-taxable item
- Two \$10.50 items of department 4 (taxable 1) as taxable 2 items



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

5 Auxiliary entries

Percent calculations (premium or discount)

- · Your register provides the percent calculation for the merchandise subtotal or each item entry.
- Percent rate: 0.01 to 99.99%

Percent calculation for the merchandise subtotal

Example

Selling four \$1.40 items of department 5 and two \$2.25 items of department 3; all these items are sold for cash at a premium of 10%

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

Key operation

Print

4 0 1.40 0 05 *5.60 03 *2.25 03 *2.25 *10.10 ST 10.00% 1 *1.01 *11.11 G

Percent calculation for item entries

Example Selling for cash an \$8.00 item of department 3 at a discount of 15% and another \$5.00 item of PLU no. 50 at a discount of 7.5%

(This example presupposes that a discount of 15% has been programmed for the %2 key.)

Key operation

800 з 50 PLU/SUB 7 • 5 [%2

Print

03 *8.00 -15.00% 2 -1.2011050 *5.00 -7.5% 2 -0.38 *11.42G

■ Discount entries

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

Discount for the merchandise subtotal

Example

Selling a \$5.75 item of department 3 and another \$7.50 item of PLU no. 51 for cash after subtracting the discount amount \$1.00 from the total sale amount

Key operation

575 3 51 PLU/SUB 100 | ⊖2

Print

03 *5.75 PL051 *7.50 *13.25 ST -1.0092 *12.25G

Discount for item entries

Example

Selling a \$6.75 item of department 5 for cash after subtracting the coupon amount 75¢

Key operation

Print

05 *6.75
-0.7501

*6.004

Refund entries

If a refund item is to be entered into a department, enter the amount of the refund, then press the we and the corresponding department key, or enter the corresponding department number then press the exp, in this order. If an item entered into a PLU is returned, enter the corresponding PLU number, then press the exp and PLU/SUB keys, in this order.

Example

Receiving the following items returned:

One \$2.50 item of department 3 and seven \$2.10 items of PLU no.13

 Xey operation

 250 RRN0 3

 7 From

 13 RRN0 PLU/SUB

03 -2.50 F -7 Q 2.10 @ 1013 -14.70 F *17.20 G

■ Printing of non-add code numbers

Enter a non-add code number such as a customer's code number and credit card number within a maximum of 7 digits and press the **TMSBTL* key at any point during the entry of a sale. Your register will print it at once.

Example

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

Key operation
1230 #/TM/SBTL
1500 €
CH2

Print

0001230#
06*15.00

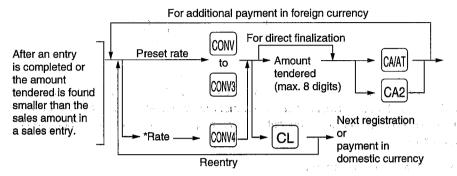
*15.00#2

6 Payment treatment

■ Currency conversion

Your register allows payment entries of foreign currency. Pressing the web key creates a subtotal in foreign currency. Cash alone can be handled after currency conversion.

Procedure

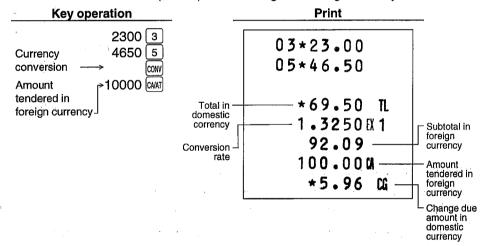


*Rate: 0.0000 to 9999.9999

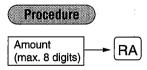
Note When the amount tendered is short, the deficit is shown in domestic currency.

Example

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



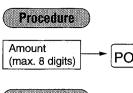
Received on account entries



Example A customer whose code number is 12345 tenders \$48.00 in cash for received on account.

Key operation	Print	
12345 #ITMSBIL	0012345#	
4800 RA	*48.00M	





Example You pay \$30.00 in cash to a vendor whose code number is 6789.

Key operation

6789 #/TM/SBTL

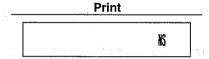
3000 PO

0006789# *30.00M

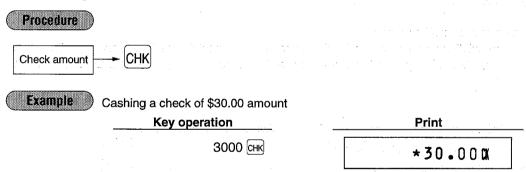
Print

■ No sale (exchange)

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

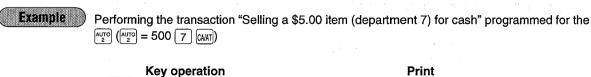


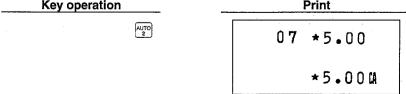
Cashing a check



7 Automatic sequencing key (🗝) entries

You can achieve a programmed transaction simply by pressing a corresponding automatic sequencing key.





CALCULATION MODE

You can use your register as a calculator machine in the calculation mode. To go into the calculation mode, press the CAD key while the mode switch is in the REG, MGR, or <u>VOID</u> position. In the calculation mode, you can use only keys on which a calculation mark such as + and - is placed.

■ Basic calculations

The following examples show basic calculation operations:

Example

■ Using the memory key

You can store or recall a value to or from the calculation memory using the (RM) key in the calculation mode.

Example

Pressing the RM key twice will clear the memory.

Recalling a value made in another mode

After going into the calculation mode, pressing the (RM) key recalls the subtotal from the transaction in the registration mode. And after going back to the registration mode, pressing the (RM) key recalls the total made in the calculation mode.

Selling items whose subtotal is \$26.75 and dividing the price by three Mode Key operation Display

wode	Key operation			Display
(Registration)	Displaying a subtotal	#/TM/SBTL	۵	24.00
	Going into the calculation mode	CAL	С	
(Calculation)	Recalling the subtotal	(RM)	ב	24.00
	Dividing the subtotal by three	÷ 3 =	۲	800
√ (Registration)	Going back to the registration mode and displaying the subtotal	CAL	٥	24.00
	Making amount tendered operation	(RM) CAIAT	٥	16.00
	for two persons	(RM) CAIAT	۵	8.00
	Receiving the rest from the third person	CA/AT	F	8.00

CORRECTION

1 Correction of the last entry (direct void)

If you make an incorrect entry relating to a department, PLU/subdepartment, percentage (% or %), discount (\bigcirc or \bigcirc) or manual tax, you can void this entry immediately by pressing the \bigcirc key.

Example

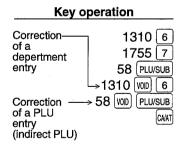
Key operation		
1250 6		
VOID		
2 PLU/SUB		
%2		
VOID		
520 8		
40 TAX		
VOID		
CA/AT		

 Print				
06*12.50				
06-12.50%				
M002				
*1. 50				
-5.00% 2				
-0.08				
*0.08W				
08 *5.20				
*0.40 TX				
-0.40%				
*6.70 CA				

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

With the woll key, you can void any incorrect positive department or PLU/subdepartment entry made during a transaction if you discover it before finalizing the transaction (e.g. pressing the wey). This function is applicable to plus department and PLU/subdepartment entries only.

Example



Print		
06*13.10		
07*17.55		
N058		
*3. 00		
06-13.10%		
R058		
''''		
-3.00 ₩		
+17 550		
~ 1 7 • J J W		
*17.55Q		

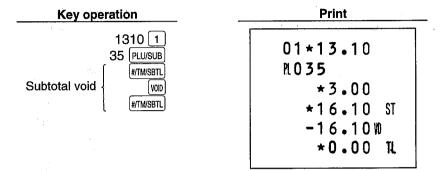
Note

To void entries that include a tax status shift, press the same, same, and/or same keys prior to the work key.

3 Subtotal void

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

Example



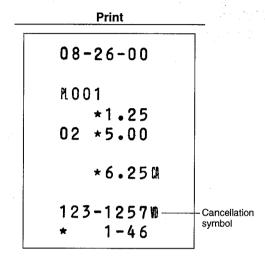
Correction of incorrect entries not handled by the direct or indirect void function

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.

CORRECTION AFTER FINALIZING A TRANSACTION

When you need to void incorrect entries that cashiers cannot correct (incorrect entries that are found after finalizing a transaction or cannot be corrected by direct or indirect void), follow this procedure.

- 1. Turn the mode switch to the VOID position using the manager key (MA).
- 2. 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.)



OVERRIDE ENTRIES

The register allows you to override programmed limit for functions (such as for maximum amounts) in the MGR mode. Turn the mode switch to the MGR position and make an override entry using the manager key (MA).

Example

Selling a \$15.00 item (department 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.)

illow coupon entiles over \$2.00.)	
Key operation	Print
REG-mode entries 1500 2 Error	02*15.00 -2.50 0 2
Turn the mode switch to the MGR position.	*12.50 U
Return the mode switch to the REG position.	

SPECIAL PRINTING FUNCTIONS

1 Receipt issuance after finalization

If your customer wants a receipt after you have finalized a transaction with the receipting function being in the "OFF" status (no receipting), press the [ROFF] key. This will produce a receipt.

Note

Pressing the [107] key in the OP X/Z mode before registration toggles the status "ON" and "OFF."

Example

Printing a receipt after making the entries shown below with the receipting function being in the "OFF" status

Key operation

850 2 CAAT

For receipting→ RCPT

(Journal)

08-26-00 02 *8.50 *8.50 M

Print

123-1263

***** 1-53

(Receipt)

08-26-00

02 *8.50

*8.50M

123-1263

★ 1-53

2 Validation printing function

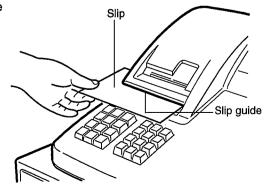
Your register can print a validation on checks, coupons, refunds, etc.

■ Validation slip setting and printing

Insert a validation slip into the printer with its printing side downward (see the figure at right), then press the key.

Note

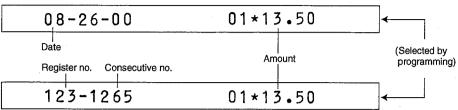
To insure proper validation, insert the slip securely until it stops.



Validation printing examples

Validation printing of item entries

Department entry



PLU entry

Discount entry (☐ 1 and ☐ 2)

· Refund entry

Void entry

Validation printing after the finalization of a transaction

CAAT or CA2 key

• When an amount tendered entry is made

• When no amount tendered entry is made

Transaction symbol

TL

CA or CA2

Amount

Sales amount

Sales amount

CHK kev

• When an amount tendered entry is made

• When no amount tendered entry is made

• When a check cashing operation is made

CKTD or TL

CK

СК

Amount tendered (depending upon setup)

Sales amount

Amount for check cashing

CH or CH2 key

RA key

PO key

CH1 or CH2

RA

PO

Sales amount

Amount received on account

Amount paid out

Validation printing of the training mode

Note

- When you make an entry for which compulsory validation printing has been programmed, the "||" will light up in the display. Carry out the validation printing. You cannot proceed to any further entry unless this printing is completed.
- Programmed compulsory validation printing can be overridden by performing the following operation.
- 1. Turn the mode switch to the "MGR" position.

■ Validation slip specification

Make validation slips according to the following specification. The use of any slips other than specified causes the printer to malfunction.

Thickness and weight:

Plain paper alone

Plain paper:

0.0035 to 0.0055 in. (0.09 to 0.14 mm) thickness

0.18 to 0.35 lbs. (82 to 157 g/m²) in weight

• Plain paper + carbon

Plain paper (thick paper): 0.0035 to 0.0075 in. (0.09 to 0.19 mm) thickness

0.18 to 0.35 lbs. (82 to 157 g/m²) in weight

Pressure sensitive paper: 0.0031 in. (0.08 mm) thickness

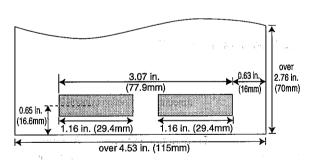
0.0012 in. (0.03 mm) thickness Carbon:

Plain paper (thin paper): 0.0024 in. (0.06 mm) thickness

0.10 lbs. (47 g/m²) in weight

Any combination of the above papers is allowed unless the total thickness exceeds 0.012 in. (0.3 mm). However, the thick plain paper cannot be combined with any paper.

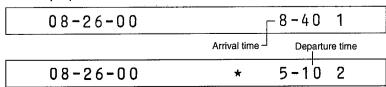
Printing position



Printing of the employee arrival and departure times

Your register allows the cashier to print the employee arrival and departure times, etc. using the validation printing function.

- Turn the mode switch to the "OP X/Z" position.
- 2. Put a card into the paper chute and perform the following key operation.
 - Arrival time : Numeric key 1 → PRINT
 - Departure time : Numeric key 2 → PRINT
- 3. Sample printout



PROGRAMMING

This chapter illustrates how to program your cash register.

Before you start programming, turn the mode switch to the PGM position using the manager key (MA).

Direct Programming

1 Setting the date, time, and consecutive number

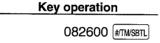
Date

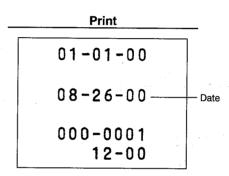
Enter the month (one or two digits), day (two digits), and year (two digits) in this sequence.



Example

Aug. 26, 2000





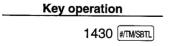
■ Time

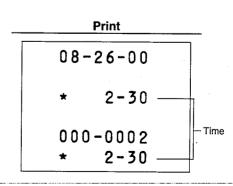
Set the time using the military time (24-hour) system. For example, when the time is set to 2:30 AM, enter 230; and when it is set to 2:30 PM, enter 1430. The time will be printed and displayed on the real-time system. Once you set the time, the internal clock unit will continue to run as long as the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

Procedure

Example

Setting the time as 2:30 PM (14:30)





■ Consecutive number

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

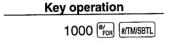
Procedure

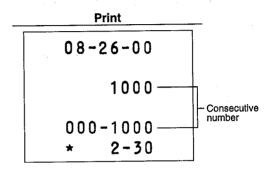
A number (one to four digits) that is one less than the desired starting number



Example

Setting the count start number as "1001"



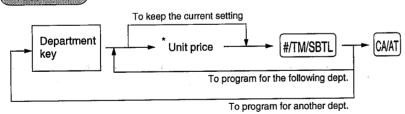


2 Programming for departments

Your machine is equipped with 10 standard departments and up to 40 optional departments. Your machine allows you to perform the following programming for each department:

Unit price

Procedure



^{*} Unit price: max. seven digits (\$99999.99)

NoteYou may enter a department number and press the we instead of pressing the actual department key.

Example

Programming the unit price \$10.00 for department 1

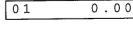
- 1. Press the department 1 key.
 - The current unit price will be displayed.

2.	Enter the	unit	price	"1000."
----	-----------	------	-------	---------

3. Press the #/TM/SBTL key to program this setting.

1

1000



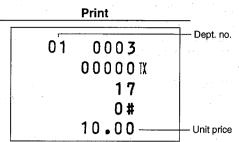
01 1000

#/TM/SBTL 0 2 0 . 0 0

4. Press the walkey to finalize the programming and generate a programming report.

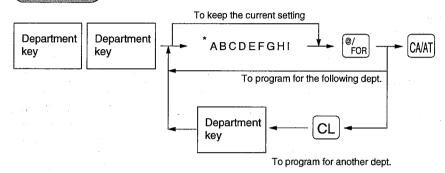


0.00



■ Functional selection

Procedure



Note You may enter a department number and press the key twice instead of pressing the actual department key twice.

Item		Selection	Entry	
A	Sign (plus/minus)	Plus	0	_
		Minus	1	_
В	Always enter 0.	· · · · · · · · · · · · · · · · · · ·	0	_
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	Normal/SICS (Single Item Cash Sale)	Normal	0	_
		SICS	1	
Н	Significant digit for HALO		1 thru 9	_
ı	Number of zeros to follow the signification	nt digit for HALO	0 thru 7	

Note

Sign (plus/minus)

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

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

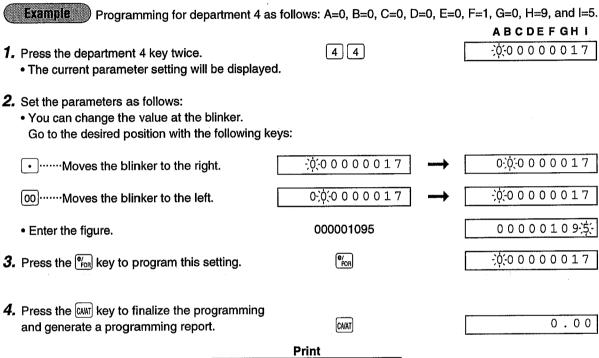
When an entry of a taxable department is made in a transaction, tax is automatically computed
according to the associated tax table or rate.

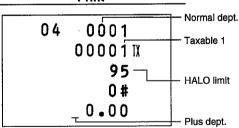
Normal department/SICS (Single Item Cash Sale)

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 will key is pressed.

HALO (High Amount Lockout)

- You can set an upper limit amount (HALO) for each department. The limit is effective for the REG-mode operations and can be overridden in the MGR mode.
- HI is the same as H x 10¹.
 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.



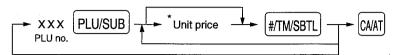


3 Price lookup (PLU) programming

This register can have a maximum of 600 PLUs. A PLU number can be up to three digits (free code).

Unit price

Procedure



^{*}Unit price: max. seven digits (\$99999.99)

Note

The preset amount will work as the unit price for PLUs and as the HALO amount for subdepartments. In the case of subdepartments, a zero preset prevents any amount entry and a 99999.99 preset means no limitation. In the case of PLUs, zero and 99999.99 presets have no special meaning. (i.e. a 0 amount preset is available.)

Example

Programming the unit price \$1.25 for PLU no. 1

1. Enter the PLU number "1" and press the PLU/SUB key. 1 PLU/SUB

001 0.00

2. Enter the unit price "125."

125

001 125

3. Press the #/TM/SBTL key to program this setting.

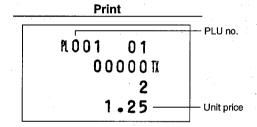
#/TM/SBTL

002 0.00

4. Press the AND key to finalize the programming and generate a programming report.

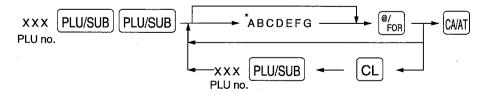
CA/AT

0.00



■ Functional selection

Procedure



Item		Selection	Entry	1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
A	Sign (plus/minus)	Plus	0	
	, , , , , , , , , , , , , , , , , , ,	Minus	1	
В	Always enter 0.	:	0	1.5
C	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	1
E	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	
G	Mode	Prohibit mode	0	1.1.1
		Subdepartment mode	1	,
		PLU mode	2	1 E.V. v. 1
		PLU/subdepartment mode	3	
		Delete mode	4	

Note

Sign (plus/minus)

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

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

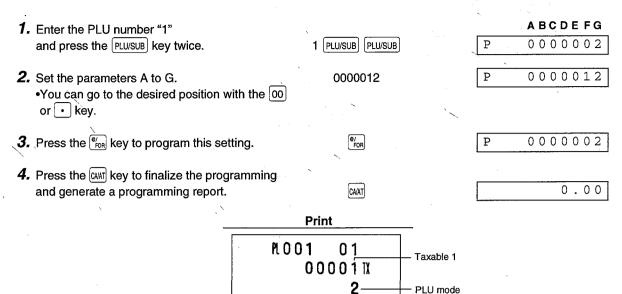
Tax status (taxable 1 thru 4/non-taxable)

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

Mode parameter

- PLU mode: Allows a PLU entry to be made by entering an assigned PLU number and depressing the PLUISUB key.
- Subdepartment mode: Allows a subdepartment entry to be made by entering a unit price and assigned PLU number and then pressing the PLU/SUB key.
- PLU/subdepartment mode: Allows PLU entries to be made in both the PLU and subdepartment modes.
- Delete mode: Deletes data programmed for each PLU.
- Prohibit mode: Prohibits the entry of any assigned PLU code and clears no PLU/subdepartment program data.

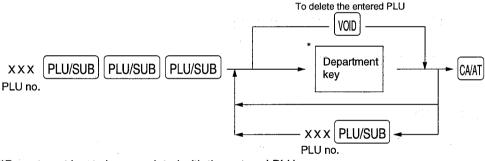
Programming for PLU no. 1 as follows: A=0, B=0, C=0, D=0, E=0, F=1, and G=2.



1.25

PLU assignment to departments





*Department key to be associated with the entered PLU

Note

- You may enter a department number and press the pring key instead of pressing the actual department key.
- The following functions of the PLU depend on the programming for its associated department:
 - Type (Hash/Normal)
 - · SICS (Single item cash sale)/Normal
 - · Item validation print compulsory/non-compulsory

Example

1. Enter the PLU number "1"

Assigning PLU nos. 1 and 2 to department 2

and press the [PLU/SUB] key three times. 1 PLU/SUB PLU/SUB PLU/SUB 2. Press the the department 2 key to assign 01 002 PLU no. 1 to department 2. 2

0 1

001

3. Press the department 2 key to assign PLU no. 2 to department 2.

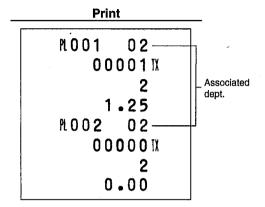
2

003 01

4. Press the key to finalize the programming and generate a programming report.

CA/AT

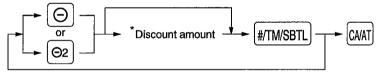
0.00



4 Programming for discount keys

■ Discount amount (⑤)

Procedure



*Discount amount: 0 - 9999999

Example Assigning \$10.00 to the 🕞 key

1. Press the 🔘 key.

Θ

01 0.00

2. Enter the discount amount "1000."

1000

#/TM/SBTL

01 1000

10.00

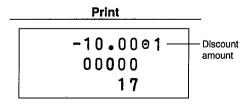
0 1

4. Press the key to finalize the programming and generate a programming report.

3. Press the #/TM/SBTL key to program this setting.

CA/AT

0.00



■ High amount lockout (HALO) and tax status (Θ)





item		Selection	Entry	
Α	Always enter 1.		1	
В	Always enter 0.		0	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	2
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	
G	Always enter 0.		0	
Н	Significant digit for HALO		1 thru 9	
I	Number of zeros to follow the	significant digit for HALO	0 thru 7	

Note

HALO (High Amount Lockout)

HI is the same as H x 101.

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.

Example

Programming for the ⊚ key as follows: A=1, B=0, C=0, D=0, E=0, F=1, G=0, H=1, and I=3.

1. Press the key twice.

ABCDEFGHI10000017

. Press the key twice.

○ ○100001013

100001013

2. Set the parameters A to I.
You can go to the desired position with the 00 or key.

100001013

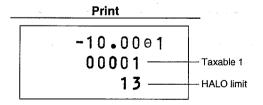
4. Press the key to finalize the programming and generate a programming report.

3. Press the $\binom{67}{FOR}$ key to program this setting.

CAVAT

@/ FOR

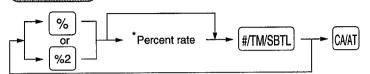
0.00



5 Programming for percent keys

■ Percent rate (%)



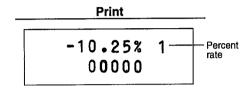


* Percent rate: 0.00 - 100.00



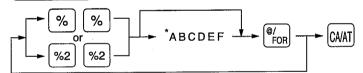
Assigning 10.25% to the % key

Key operation
% 1025 #/TM/SBTL
CAIAT



■ Sign (+/-) and tax status (%)

Procedure

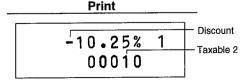


ltem	1	Selection	Entry	
Ā	Sign (plus/minus)	Plus (premium)	0	
		Minus (discount)	1	
В	Always enter 0.		0	
С	Tax 4 status	Non-taxable	0	
		Taxable	1	
D	Tax 3 status	Non-taxable	0	
		Taxable	1	
E	Tax 2 status	Non-taxable	0	
		Taxable	1	
F	Tax 1 status	Non-taxable	0	
		Taxable	1	

Example

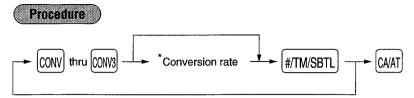
Programming for the % key as follows: A=1, B=0, C=0, D=0, E=1, and F=0.

Key operation
% % 100010 FOR CANAT

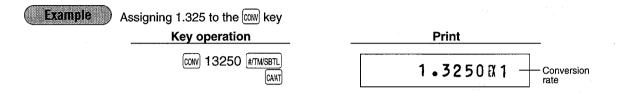


6 Programming for conversion keys

■ Currency conversion rate (conv)



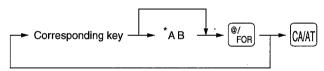
* Currency conversion rate: 0.0000 - 9999.9999



7 Programming for the CA2 , RA , PO , CH , CHK, and TAX keys

■ High amount lockout (HALO) (ᢙ₂ , ㈜ , Թ , Թ , ⓒH , ⓒH , and ऻॎ॔)





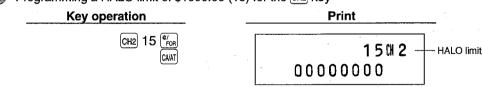
* AB is the same as A x 10⁸

A: Significant digit (1 thru 9)

B: Number of zeros to follow the significant digit (0 thru 8)



Programming a HALO limit of \$1000.00 (15) for the CH2 key



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.

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

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

1 Setting the date and time

Date 2610 Direct

Procedure

* Date: Enter the month, day, and year in this order.

Time 2611 Direct

Procedure

2 Setting the register and consecutive numbers

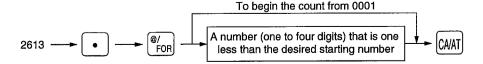
Register number 2612

When your store has two or more registers, it is practical to set unique register numbers for their identification.

Procedure

Consecutive number 2613 Direct

Procedure



^{*}Time: Enter the hour and minute in this order.

3 Programming for the automatic tax calculation function

■ Tax table (applicable to the add-on tax) 2710

Sample tax table (6%)

	Range of sales amount				
Taxes	Minimum breakpoi	nt N	laximum 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) 12 (0.23 - 0.11) 16 (0.39 - 0.23) 18 (0.57 - 0.39) 16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73)		minimum breakpoint and	. t
10 (0.11 - 0.01) 12 (0.23 - 0.11) 16 (0.39 - 0.23) 18 (0.57 - 0.39) 16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73)		-	D. Non evelie
16 (0.39 - 0.23) 18 (0.57 - 0.39) 16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73) C: Cyclic 1		10 (0.11 - 0.01)	B. Non-cyclic
18 (0.57 - 0.39) 16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73)		12 (0.23 - 0.11)	
16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73) C: Cyclic 1 C: Cyclic 1 D: Cyclic 2		16 (0.39 - 0.23)	
16 (0.73 - 0.57) 16 (0.89 - 0.73) 22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73) D: Cyclic 2		18 (0.57 - 0.39)	V 01:- 1
22 (1.11 - 0.89) 12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73) D: Cyclic 2		16 (0.73 - 0.57)	C: Cyclic 1
12 (1.23 - 1.11) 16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73) D: Cyclic 2		16 (0.89 - 0.73)	
16 (1.39 - 1.23) 18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73)		22 (1.11 - 0.89)	
18 (1.57 - 1.39) 16 (1.73 - 1.57) 16 (1.89 - 1.73)		12 (1.23 - 1.11)	
16 (1.73 - 1.57) 16 (1.89 - 1.73)		16 (1.39 - 1.23)	
16 (1.73 - 1.57) 16 (1.89 - 1.73)		18 (1.57 - 1.39)	V D. O. alia 0
·		16 (1.73 - 1.57)	D: Cyclic 2
22 (2.11 - 1.89)		16 (1.89 - 1.73)	
		22 (2.11 - 1.89)	

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

Q: The minimum taxable amount

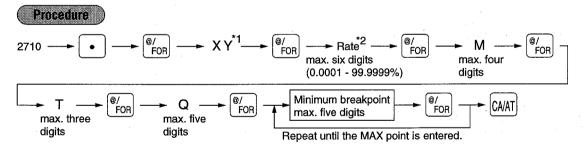
M1: The maximum value of the minimum breakpoint on a regular cycle (C)

We call this point "MAX point."

M2: The maximum value of the minimum breakpoint on another 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



- *1 X: Enter "1" when the difference between the minimum breakpoint and the preceding minimum breakpoint is \$1.00 or more. Enter "0" or nothing when the difference is 99¢ or less.
 - Y: Enter the tax table number. For example, when your tax table is to be programmed as tax table 1, enter "1" and when it is to be programmed as tax table 4, enter "4".
- *2 If the rate is fractional (e.g. 4-3/8%), convert the fractional portion (3/8%) to its decimal equivalent (0.378), then enter the resulting rate (4.378). Note that the nominal rate (R) is generally indicated on the tax table.
- If the tax is not provided for every cent, modify the tax table by setting the tax for every cent in the following way.

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

Sample tax table (8%)

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

Modification of the left tax table

	and the second s			The state of the state of the state of
Tax	Minimum breakpoint		Breakpoint difference (¢)	
.00 ∴01 T	.01 [.11 ← Q		1 10 (0.11-0.01)	B: Non-cyclic
.02 .03 .04 .05 .06 .07	.26 .47 .68 .89 .89 .1.11 — M1		15 (0.26-0.11) 21 (0.47-0.26) 21 (0.68-0:47) 21 (0.89-0.68) 0 (0.89-0.89) 22 (1.11-0.89) 0 (1.11-1.11)	C: Cyclic 1
.09 .10 .11 .12 .13 .14 .15 .16	1.11 1.26 1.47 1.68 1.89 1.89 2.11 — M2 2.11	,	0 (1.11-1.11) 15 (1.26-1.11) 21 (1.47-1.26) 21 (1.68-1.47) 21 (1.89-1.68) 0 (1.89-1.89) 22 (2.11-1.89) 0 (2.11-2.11) 0 (2.11-2.11)	D: Cyclic 2

From the modified tax table above:

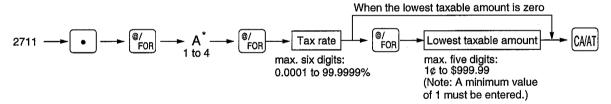
Rate = 8(%), T = \$0.01 = 1¢, Q = \$0.11 = 11¢, M1 = 1.11, M2 = 2.11, M = 100

Note

- A maximum of 72 breakpoints can be entered for each tax table. However, when the breakpoint difference is \$1.00 or more, 36 breakpoints can be entered. If number of breakpoints exceeds its capacity, use the manual entry approach.
- 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 #TIMSSTL key. Then program again from the beginning.

■ Tax rate 2711

Procedure



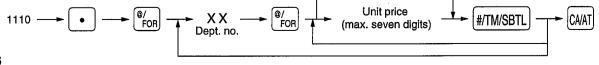
- *A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4."
- Note

 If you make an incorrect entry before pressing the third of key in programming a tax rate, cancel it with the CL key; and if you make an error after pressing the third of key, cancel it with the HITMSBIL key. Then program again from the beginning.

4 Programming for departments

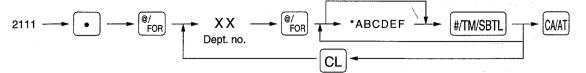
Unit price 1110 Direct

Procedure



Functional selection 1 2111 Direct

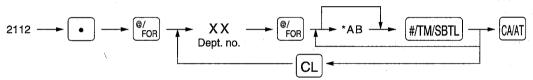




*	Item		Selection	Entry	
	A	Sign (plus/minus)	Plus	0	
			Minus	1	
	В	Always enter 0.		0	
	С	Tax 4 status	Non-taxable	0	
			Taxable	1	
	D	Tax 3 status	Non-taxable	0	
			Taxable	1	
Ž.	Е	Tax 2 status	Non-taxable	0	
			Taxable	1	
	F	Tax 1 status	Non-taxable	0	
			Taxable	1	

■ Limit amount (HALO) 2112 Direct

Procedure



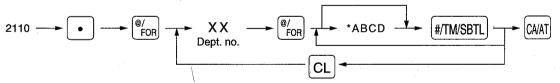
^{*} AB is the same as A x 10⁸.

A: Significant digit (1 thru 9)

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

■ Functional selection 2 2110





Item		Selection	Entry
A	Item validation print	Compulsory	, 1
		Non-compulsory	0
В	SICS (Single item cash sale)/Normal	SICS	1
		Normal	0
С	Hash/Normal	Normal	0
		Hash	1
D	Type of unit price entry	Open and preset	3
		Preset only	2
		Open only	1
		Inhibit department key	. 0

Note

Item validation print

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

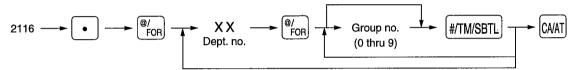
SICS (Single item cash sale) / Normal department Direct Hash / Normal

- 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.
- If your register is programmed for "Hash dept. not programmable" by your dealer, you cannot program the department for those operations. So contact your dealer if you need them.

■ Group number 2116

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

Procedure

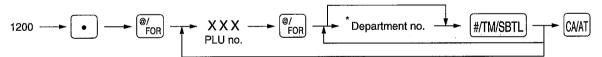


Note If you assign the group no. 0, the department does not belong to any group.

5 Price lookup (PLU) programming

■ PLU assignment to departments 1200 Direct

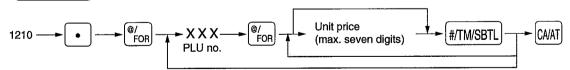
Procedure



* Department number to be associated with the entered PLU

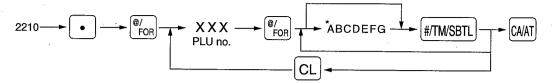
■ Unit price 1210 Direct

Procedure



Functional selection 2210

Procedure



İte	m	Selection	Entry	
Α	Sign (plus/minus)	Plus	0	
		Minus	1	
В	Always enter 0.		0	
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	Mode	Prohibit mode	0	
		Subdepartment mode	1	
		PLU mode	2	
		PLU/subdepartment mode	3	
<u>. </u>		Delete mode	4	

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

Programming for miscellaneous keys

Rate and discount amount (%, 60%, and 60)

Procedure



*1: Function no.

Note

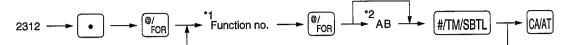
- 1: For the (□) key
- 2: For the [Θ₂] key
- 5: For the conv key
- 3: For the % key
- 6: For the CONV2 key
 - 7: For the CONV3 key
- 4: For the %2 key

- *2: Rate or amount
 - 0 9999999 (Discount amount)
 - 0.00 100.00 (Percent rate)
 - 0.0000 9999.9999 (Currency conversion rate)

In order for a specific function to be programmed, the related key must be assigned on the keyboard.

■ Limit amount (HALO) (⊙, TAX, RA, and PO) 2312 Direct

Procedure



- *1: Function no.
 - 1: For the (☐) key
- 10: For the RA key
 11: For the PO key
- 2: For the 2 key
- 9: For the TAX key

- 2: AB is the same as A x 108.
 - A: Significant digit (0 thru 9)
 - B: Number of zeros to follow the significant digit
 - 0 thru 7 (for the 🔘, 🖭, and TAX keys)
 - 0 thru 8 (for the RA and PO keys)

■ Sign (+/-) and tax status (%, ⊙) 2311 Direct

Procedure



- *1: Function no.
 - 1: For the (☐) key
- 2: For the ^{©2} key
- 3: For the % key
- 4: For the %2 key

*2:

lte	m	Selection	Entry
A	Sign (plus/minus)	Plus (premium)	0
	,	Minus (discount)	11
В	Always enter 0.		0
C	Tax 4 status	Non-taxable	
		Taxable	6. 5 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	
-		Taxable	1

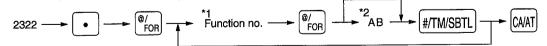
Note

- Assigning of the "+" or "-" sign is available only for percent keys.

7 Programming for the media keys

■ High amount lockout (HALO) for media keys 2322 Direct

Procedure

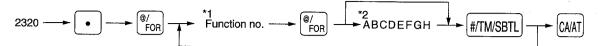


- *1: Function no.
 - 13: For the CA2 key
 - 14: For the CHK key
 - 15: For the СН key
 - 16: For the CH2 key
- *2: AB is the same as A x 108.
 - A: Significant digit (1 thru 9)
 - B: Number of zeros to follow the significant digit (0 thru 8)
 - You can set up AB = 18 for no limitation.

NoteIn order for a specific function to be programmed, the related key must be assigned on the keyboard.

■ Functional selection 2320





*1: Function no.

12: For the CAAT key
13: For the CA2 key

14: For the CHK key

16: For the CH2 key

*2: <u>lt</u>	tem		Selection	Entry
Α	4	Change	Disable	1
		(Over-tender)	Enable	0
В	3	Validation print	Compulsory	1
_			Non-compulsory	0
<u>C</u>	to G	Always enter 0.		0
Н	1	Amount tendered	Compulsory	1
			Non-compulsory for the CA/AT, CA2, or CHK key	0
_			Inhibited for the CH and CH2 keys	0

Note CI

Change (over-tender)

Either change enable or disable can be selected for the CHK, CH, or CH2 key.

Validation print

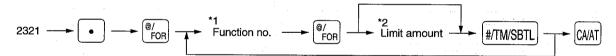
If media entries must be validated, program the corresponding media for compulsory validation print.

Amount tendered

You may select amount tendered compulsory or non-compulsory for the ANT, CA2, and CHK keys. You may select amount tendered compulsory or inhibited for the CH and CH2 keys.

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





- *1: Function no.
 - 17: For check cashing
 - 18: For check change
 - 19: For cash in drawer (Sentinel)
- *2: Limit amount
 - 0 thru 999999.99 (Check change and check cashing)
 - 0 thru 9999999.99 (Cash in drawer)

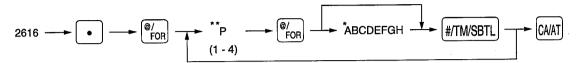
Note

In order for a specific function to be programmed, the related key must be assigned on the keyboard.

8 Programming various functions

■ Optional feature selection 2616

Procedure



**P: 1

Item		Selection	Entry
A	OP X/Z mode	Enable	0
		Disable	1
B and C	Always enter 0.		0
D	Refund in the REG-mode	Enable	0
		Disable	1
E	Direct void in the REG-mode	Enable	0
-		Disable	11
F	Indirect void in the REG-mode	Enable	0
-		Disable	1
G	Subtotal void in the REG-mode	Enable	0
_		Disable	1
H	Always enter 0.		0

Note

OP X/Z mode

This programming determines whether a cashier is allowed to use this mode. You can take cashier X and Z reports in the X1/Z1 mode regardless of the above programming.

**	D٠	n

Item		Selection	Entry
A to C	Always enter 0.		0
D	Printing of the number of purchased items	No	0
_	, ,	Yes	1
F	Time print	No	1
_		Yes	0
F	Journal print form	Detailed	0
•	554 F	Limited	1
G to H	Always enter 0.		0

Note

Journal print form

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

**P: 3

Item		Selection	Entry
A and C	Always enter 0.		0
D	Zero skip in transaction report	Yes	0
		No	1
E	Zero skip in department report	Yes	0
		No	1
F	Zero skip in PLU report	Yes	0
		No	1
G	Zero skip in hourly report	Yes	0
	· -	No No	1
Н	Zero skip in daily net report	Yes	0
	<u> </u>	No	1

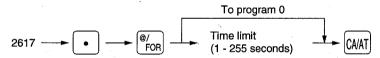
**P: 4

* <u>Item</u>		Selection	Entry
A	Calculation mode	Enable	0
		Disable	1
B to H	Always enter 0.		0

■ Setting the time limit for THE TILL TIMER™ 2617

The machine counts the number of times the drawer is left open for longer than the programmed time limit. The counter will be incremented by one each time the 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 full report and transaction report.

Procedure



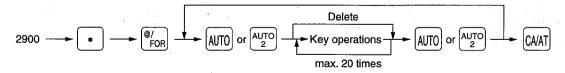
Note

A setting of 0 disables the TILL TIMER function.

■ Setting the AUTO key — Automatic sequencing key — 2900

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

Procedure



Note

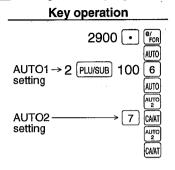
Only valid key operations in the OP X/Z, REG, MGR, <u>VOID</u>, X1/Z1 and X2/Z2 modes can be performed. Otherwise the result will be an entry error upon entry after programming.

Example

Programming for the AUTO and AUTO keys as follows:

entering a \$1.50 item (PLU no. 2) and a \$1.00 item (department 6)

[Auro]; selling a \$5.00 -programmed- item (department 7) in cash



F	rint	
	1#	7
01	03	
02	19	
03	02	
0 4	. 11	
0.5	106	
	2#	
01	10 7	
02	16	

Key reference list

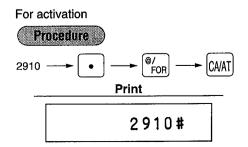
The numbers at the left side of the receipt show the order in which the corresponding key will be registered. The numbers at the right side show the corresponding key numbers. Each key has a corresponding key number as shown below:

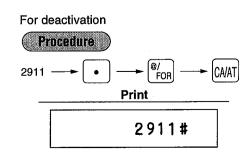
Keys:	Nos.:	Keys:	Nos.:	Keys:	Nos.:	Keys:	Nos.:
0 key	1		12	VOID	27	CONV2	42
1 key	2	CL	13	RFND	28	CONV3	43
2 key	3	G/ FOR	14	%	29	CONV4	44
3 key	4	#/TM/SBTL	15	%2	30	RA	46
4 key	5	CA/AT	16	Θ	31	РО	47
5 key	6	CA2	17	⊙ 2	32	DEPT#	49
6 key	7	MDSE SBTL	18	TAX	33	NS	50
7 key	8	PLU/SUB	19	AUTO	34	ESC	51
8 key	9	TAX1 SHIFT	20	AUTO 2	35	Dept. 1 key	101
9 key	10	TAX2 SHIFT	21	СНК	38	Dept. 2 key	102
00 key	11	TAX3 SHIFT	22	СН	39	:	:
		TAX4 SHIFT	23	CH2	40	:	:
		PRINT	25	CONV	41	Dept. 40 ke	y 140
		RCPT	26	•			

9 Activating and deactivating the TRAINING mode

You will use the TRAINING mode if you need to train someone in register operations without any change in register's memory. Reports are not available. When the training is completed, cancel this mode and thus put your machine back into the normal mode of operation.

TRAINING-mode activation/deactivation 2910 2911





■ TRAINING-mode operations

- Practice entries are allowed only when the mode switch is in the REG position or the MGR position.
- In order to identify training entries from actual ones, your register prints "@" on the receipt and journal.
- These entries do not affect any totalizers or counters except the training GT.
- The consecutive number is increased by one each time a receipt is published.

10 Reading stored programs

Your machine allows you to read every program stored in the PGM mode.

■ Program details and procedures for their reading

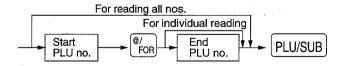
	Program for:	Procedure	Related job codes
1	Departments	For reading all nos. For individual reading Start dept. no. For padding all nos. For individual reading End dept. no. CAVAT	1110, 2110, 2111, 2112, 2116
2	PLUs/ subdepartments	For reading all nos. For individual reading Start PLU no. FOR FOR FOR FOR FOR FOR FOR FO	1200, 1210, 2210
3	Function preset	→ 1300 → ^{@/} _{FOR} → CA/AT	1310, 2311, 2312, 2320, 2321, 2322, 2616, 2617
4	Tax tables and rates	→ 2700 → @/ FOR → CA/AT	2710, 2711
5	Auto keys	→ 2900 → [@] / _{FOR} → CA/AT	2900

You can also read the program in the following procedure:

Departments, function preset, and tax tables and rates

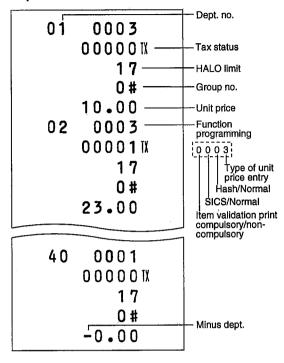
CA/AT

PLUs/subdepartments

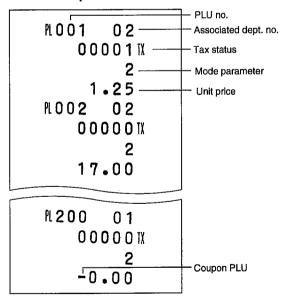


■ Sample printouts

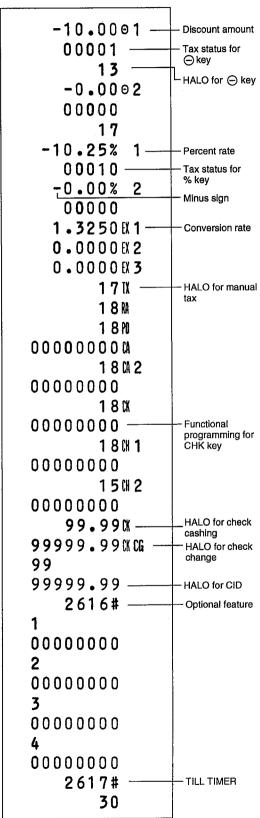
1 Departments



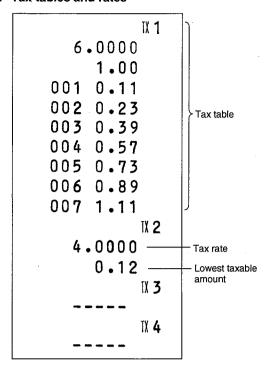
2 PLUs/subdepartments



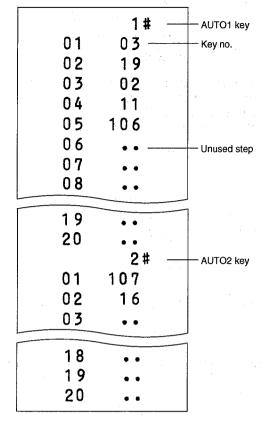
3 Function preset



4 Tax tables and rates



5 Auto keys



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, reset count, and consecutive number.

1

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

ltem	Mode switch position		Key operation	
	X1/Z1	X2/Z2		
Full report	X1, Z1	X2, Z2	Reading CA/AT Resetting	
Hourly sales report	X1, Z1		Reading #/TM/SBTL Resetting	
Full department report	X1	X2	MDSE SBTL	
Individual group report	X1	X2	Group no. → MDSE SBTL	
PLU report	X1, Z1	X2, Z2	Start PLU no. Start PLU no. PLU/SUB Resetting	
PLU report by associated dept.	X1	X2	Department key or Department no. ──► DEPT#	
Transaction report	X1	X2	СНК	
Daily net total report		X2, Z2	Reading #/TM/SBTL Resetting	

Flash reports:

Your machine can display the total amount (flash report) without printing out the report. To take the flash report, do the following in the OP X/Z mode:

Sales total

CAVAT

Individual department total amount

Department key or Department no. → ©FFE
Group no. → SSEE

Department group total amount Cash in drawer

FOR

Hourly sales total

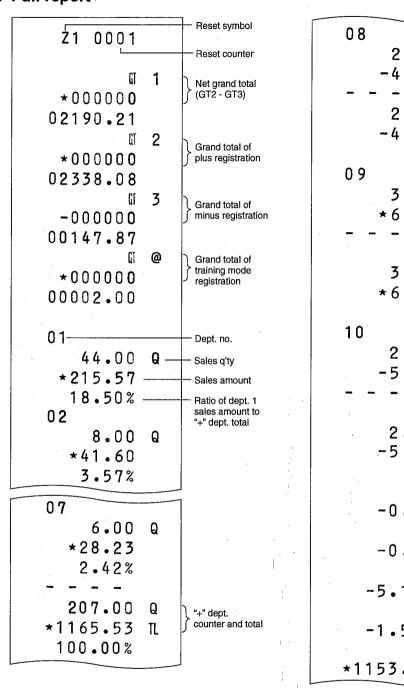
Time (two digits)→#/TM/SBTL

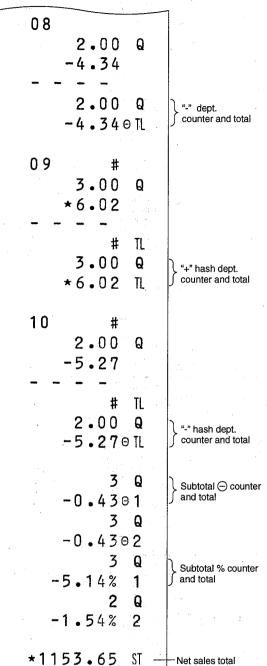
Note

To clear the display, press the CL key.

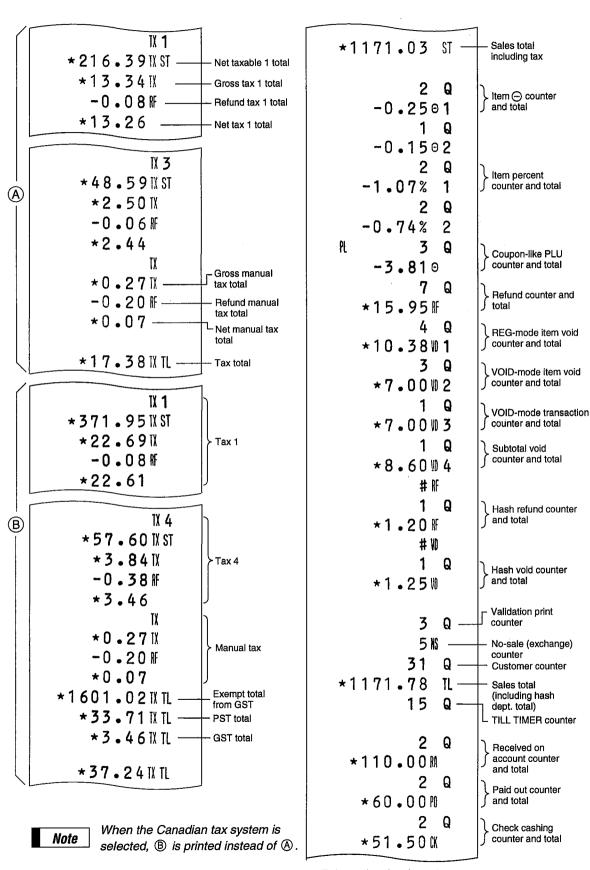
2 Daily sales totals

Full report

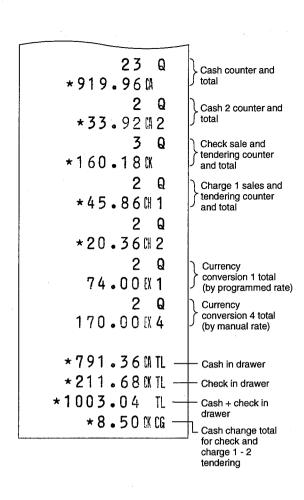




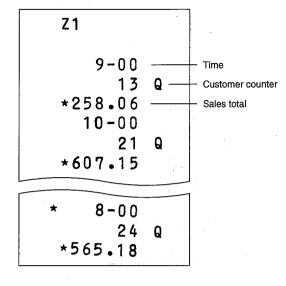
Note On the X report, "X1" is printed instead of the reset counter and symbol "Z1."



To be continued on the next page

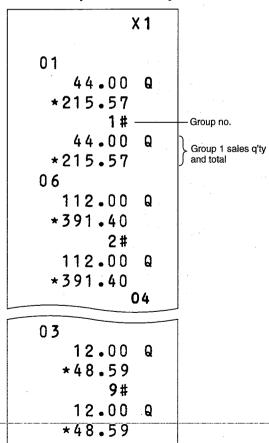


■ Hourly report

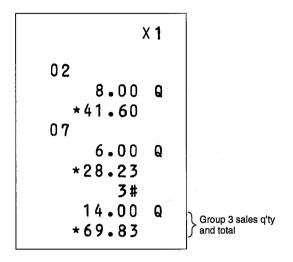


Note On the X report, "X1" is printed instead of the reset symbol "Z1."

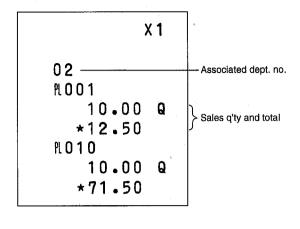
Full department report



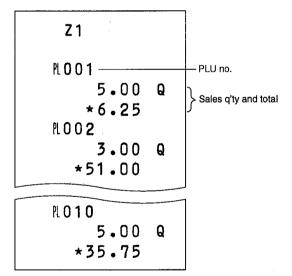
Individual group report



■ PLU by associated department report

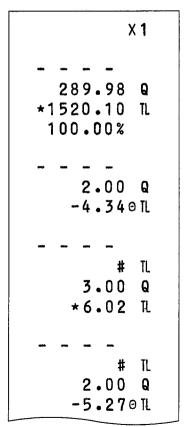


■ PLU report



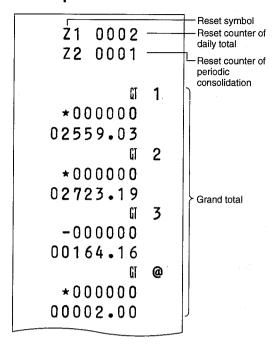
Note On the X report, "X1" is printed instead of the reset symbol "Z1."

■ Transaction report



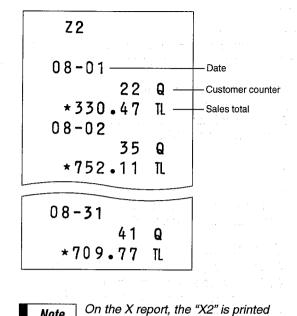
Periodic consolidation

■ Full report



■ Daily net report

Note



instead of the "Z2."

Note

- · The subsequent printout occurs in the same format as in the X/Z report for daily total.
- On the X report, the "X2" is printed instead of the "Z2."

MAINTENANCE

In case of power failure

When power is lost, the machine retains its memory contents and all information on sales entries when the batteries are in the proper state of charge.

- When power failure is encountered in register idle state or during an entry, the machine returned to the normal state of operation after power recovery.
- When power failure is encountered during a printing cycle, the register prints "******* and then carries out the correct printing procedure.

2 In case of printer's motor locking

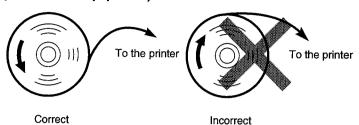
If the printer's motor happens to lock, the printing stalls, the register will continuously start an intermittent bleeping tone. If this occurs, please follow the procedure below.

- 1. Unplug the power cord from the outlet.
- 2. Insure the printer is clear of any obstructions (e.g. paper jams, etc.).
- 3. Plug the power cord into the outlet.
- 4. Insure that the receipt and journal paper is positioned properly.
- 5. Press the CL key.
- 6. The register prints "****** and continues printing.

Installing and removing the paper roll

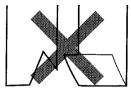
Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly.

(How to set the paper roll)



(How to cut the paper end)





Correct

Incorrect

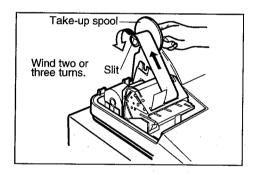
Installing the paper roll

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. Set the paper roll correctly and drop it into the printer.
- 4. Insert the paper end into the paper chute.
- 5. Press the receipt paper feed key to advance the paper by a required length.
- **6.** 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. Set the paper roll correctly and drop it into the printer.
- 4. Insert the paper end into the paper chute.
- 5. Press the journal paper feed key to advance the paper by a required length.
- 6. Insert the paper end into the slit of the paper take-up spool and wind it two or three turns around the spool
- 7. Set the spool on the bearing.
- 8. Replace the printer cover.

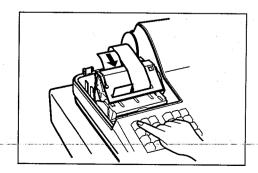


Removing the paper roll

When a dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one.

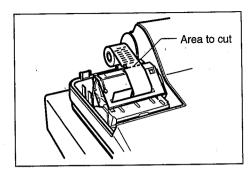
Removing the receipt paper roll

- 1. Remove the printer cover.
- Cut the paper near the unused paper roll, remove the roll and press the receipt paper feed key to remove the remaining paper.

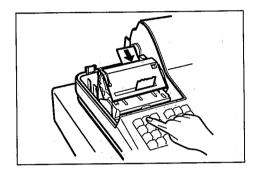


Removing the journal paper roll

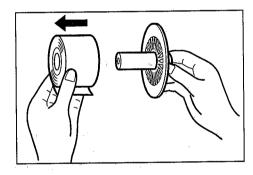
- 1. Remove the printer cover.
- 2. Press the journal paper feed key to advance the paper by several lines and then cut it.



Cut the paper near the unused paper roll, remove the roll and press the journal paper feed key to remove the remaining paper.



4. Remove the paper roll from the take-up spool.



■ Removing a paper jam

- **1.** Remove the printer cover.
- 2. Remove the paper jam.
- 3. Reset the paper roll correctly following the steps shown in "Installing the paper roll."
- **4.** Replace the printer cover.

■ Recording paper specifications

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

Paper specification

Paper width: 1.75 ± 0.02 in. $(44.5 \pm 0.5 \text{ mm})$

Max. outside diameter: 3.27 in. (80 mm)

Thickness: 0.0024 to 0.0035 in. (0.06 to 0.09 mm)

Weight: 52.3 — 64.0 g/m²

Quality: bond paper

Paper tube: 0.71 in. (18 mm)

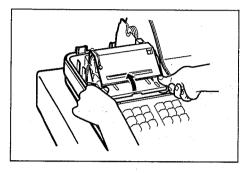
• Be sure to set paper roll(s) prior to using your machine, otherwise it could malfunction.

4 Replacing the ink roller

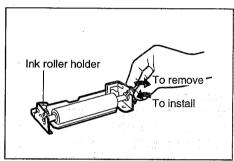
When printing becomes faint, replace the ink roller with a new one.

Precautions:

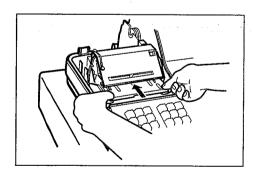
- Be sure to use an ink roller specified by SHARP. The use of any ink rollers other than specified could cause troubles in the printer.
- After opening the parcel, be careful not to make the surface of the ink ribbon dirty, and install it soon.
- Do not pour ink to the ink roller.
- If you preserve the ink roller for a long time, the ink will be dry and its life will be shortened. Please use it soon. If you do not use it soon, put it in an airtight receptacle and preserve it in a cool and dark place. Do not leave it in a location that is subject to high humidity and direct radiation.
- 1. Remove the printer cover.
- 2. Lift up the ink roller holder in the direction of the arrow.



- **3.** Remove the ink roller from the ink roller holder by pulling it in the direction of the arrow.
- 4. Install a new one by pressing it in the direction of the arrow.



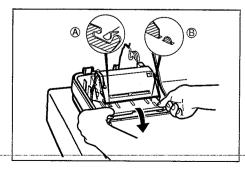
5. Insert the ink roller holder into the printer.



- **6.** Press the ink roller holder in the direction of the arrow to fit it with the printer like the figures A and B.
- Note

Press the ink roller holder until it snaps.

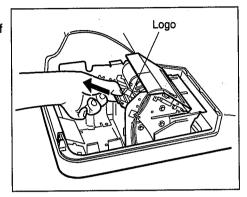
7. Replace the printer cover.



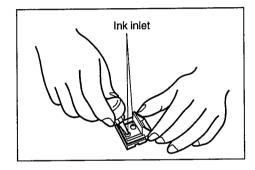
5 Ink refill

If the logo becomes too light, refill it with the supplied logo ink following the procedure given below.

- 1. Remove the printer cover.
- 2. Remove the store name logo by pulling it in the direction of the arrow.



- **3.** Apply two or three drops of logo ink through the ink inlet situated on the back of the logo.
- 4. Replace the logo by the reverse procedure of removing.
- 5. Replace the printer cover.



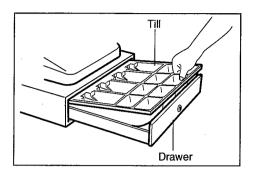
Precautions

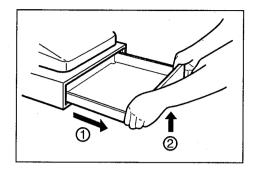
- The logo ink first gives a clear print 10 to 15 hours after being applied to the logo. Therefore, refilling at the end of daily business is most effective.
- Overinking should be avoided. This will create a blurry print.
- The ink is exclusively used for the logo. Do not apply the ink to the ink roller.

When the supplied ink is exhausted, purchase the logo ink specified by SHARP through your dealer.

6 Removing the till and the drawer

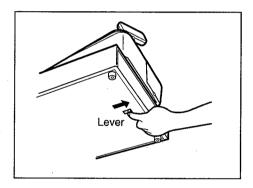
The till in the register is detachable. After closing your business for the day, remove the till from the drawer and keep the drawer open. To detach the drawer, pull it forward fully with the till removed, and remove it by lifting it up.





7 Opening the drawer by hand

The drawer automatically opens in the usual way, 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, labeled "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		
The display won't be illuminated even when the mode switch is turned to any other position than "OFF."	Is power supplied to the electric 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 the 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 receipting function in the "OFF" status? 		
(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 ink roller installed properly?Is the ink roller's life completed?		

LIST OF OPTIONS

For your register, the following options are available. For details, contact your dealer.

- Till model ER-48CC2
- Remote drawer model ER-04DW
- Key kit models

By using the following key kits, you can change the keyboard layout of 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-11DK7: 30 regular size dummy key kits

ER-51DK7G: 10 5 x 1 size dummy key kits

SPECIFICATIONS

Model:	ER-A320	
Dimensions (W x D x H):	16.5 x 16.7 x 12.0 in. (420 x 423 x 304 mm)	
Weight:	30.2 lbs. (13.7 kg)	
Power source:	Local voltage ± 10% AC, 50/60 Hz	
Power consumption:	Stand-by 9W Operating 35W (max.)	
Working temperature:	32 °F to 104 °F (0 °C to 40 °C)	
Electronics:	LSI (CPU), etc.	
Built-in battery:	Rechargeable battery pack, memory holding time of about 1 month (with fully	
	charged built-in battery pack, at room temperature)	
Display:	Operator display:	7-segment display (10 positions)
	Customer display:	7-segment display (7 positions)
Printer:	Type:	2-station print wheel selective type
	Printing speed:	Approx. 2.5 lines/second
	Printing capacity:	10 digits each for receipt and journal paper
	Other functions:	
	Receipt ON-OFF function, journal selective function	
	Receipt and journal independent paper feed function	
	Validation printing function	
Ink roller:	Color:	Purple (single color)
	Life:	0.6 millions of lines
Logo:	Dimensions of the printing face (W x H): 1.18 x 0.79 in.(30 x 20 mm)	
Paper roll:	Width:	1.75 ± 0.02 in. $(44.5 \pm 0.5 \text{ mm})$
	Max. diam.:	3.27 in. (80 mm)
	Thickness:	0.0024 to 0.0035 in. (0.06 to 0.09 mm)
	Weight:	0.12 - 0.14 lbs. (52.3 - 64.0 g/m²) (bond paper)
Cash drawer:	4 slots for bill and 8 for coin denominations	
Accessories:	Manager key	2
	Operator key	2
	Drawer lock key	2
	Bill separator	1
	Ink roller	1 (mounted on the main body)
	Standard logo	1
	Logo ink	1 (5 cc)
	Paper roll	2
	Spool	1
	Instruction manua	1 copy

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



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