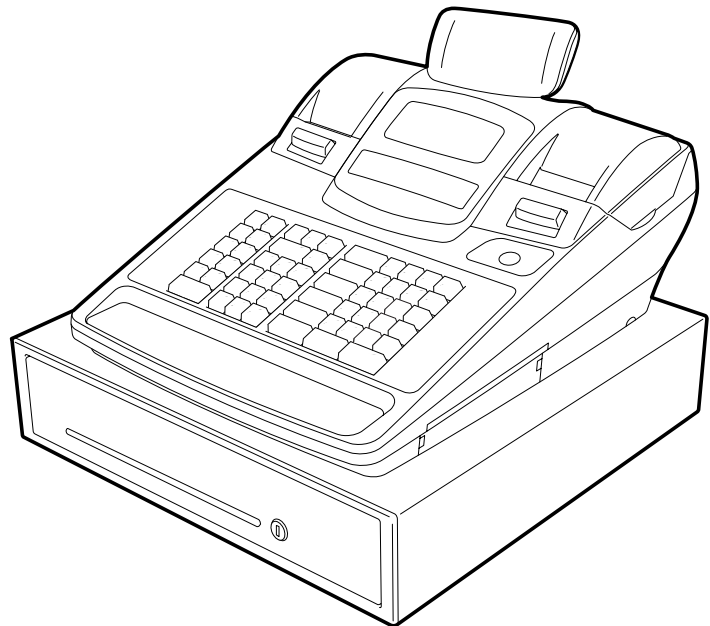


TEC

TEC Electronic Cash Register

MA-600-1 SERIES

Owner's Manual



TOSHIBA TEC CORPORATION

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Caution:

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

Attention:

Le socle de prise de courant doit être installé à proximité du matériel et doit être aisément accessible.

CAUTION!

1. *This manual may not be copied in whole or in part without prior written permission of TOSHIBA TEC.*
2. *The contents of this manual may be changed without notification.*
3. *Please refer to your local Authorized Service representative with regard to any queries you may have in this manual.*

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by TOSHIBA TEC CORPORATION
All Rights Reserved
570 Ohito, Izunokuni-shi, Shizuoka-ken, JAPAN

Safety Summary

Personal safety in handling or maintaining the equipment is extremely important. Warnings and Cautions necessary for safe handling are included in this manual. All warnings and cautions contained in this manual should be read and understood before handling or maintaining the equipment.

Do not attempt to effect repairs or modifications to this equipment. If a fault occurs that cannot be rectified using the procedures described in this manual, turn off the power, unplug the machine, then contact your authorized TOSHIBA TEC representative for assistance.

Meanings of Each Symbol



This symbol indicates warning items (including cautions). Specific warning contents are drawn inside the Δ symbol. (The symbol on the left indicates a general caution.)



This symbol indicates prohibited actions (prohibited items). Specific prohibited contents are drawn inside or near the \odot symbol. (The symbol on the left indicates “no disassembling”.)



This symbol indicates actions which must be performed. Specific instructions are drawn inside or near the \bullet symbol. (The symbol on the left indicates “disconnect the power cord plug from the outlet”.)



WARNING

This indicates that there is the risk of **death** or **serious injury** if the machines are improperly handled contrary to this indication.



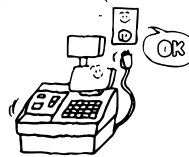
Prohibited

Do not plug in or unplug the power cord plug with wet hands as this may cause **electric shock**.



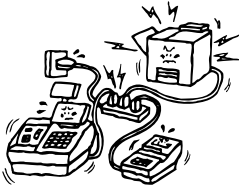
Any other than the specified AC voltage is prohibited.

Do not use voltages other than the voltage (AC) specified on the rating plate, as this may cause **fire** or **electric shock**.



Prohibited

If the machines share the same outlet with any other electrical appliances that consume large amounts of power, the voltage will fluctuate widely each time these appliances operate. Be sure to provide an exclusive outlet for the machine as this may cause **fire** or **electric shock**.



Prohibited

Do not place metal objects or water-filled containers such as flower vases, flower pots or mugs, etc. on top of the machines. If metal objects or spilled liquid enter the machines, this may cause **fire** or **electric shock**.



Prohibited

Do not insert or drop metal, flammable or other foreign objects into the machines through the ventilation slits, as this may cause **fire** or **electric shock**.



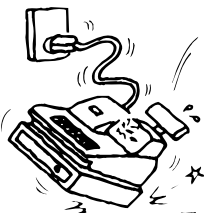
Prohibited

Do not scratch, damage or modify the power cords. Also, do not place heavy objects on, pull on, or excessively bend the cords, as this may cause **fire** or **electric shock**.



Disconnect the plug.




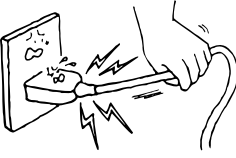

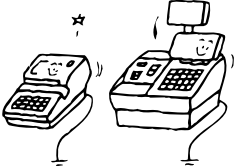


If the machines are dropped or their cabinets damaged, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC representative for assistance. Continued use of the machine in that condition may cause **fire** or **electric shock**.



Disconnect the plug.

Continued use of the machines in an abnormal condition such as when the machines are producing smoke or strange smells may cause **fire** or **electric shock**. In these cases, immediately turn off the power switches and disconnect the power cord plugs from the outlet. Then, contact your authorized TOSHIBA TEC representative for assistance.



 <p>Disconnect the plug.</p> 	<p>If foreign objects (metal fragments, water, liquids) enter the machines, first turn off the power switches and disconnect the power cord plugs from the outlet, and then contact your authorized TOSHIBA TEC representative for assistance. Continued use of the machine in that condition may cause fire or electric shock.</p>	 <p>Disconnect the plug.</p> 	<p>When unplugging the power cords, be sure to hold and pull on the plug portion. Pulling on the cord portion may cut or expose the internal wires and cause fire or electric shock.</p>
 <p>Connect a grounding wire.</p> 	<p>Ensure that the equipment is properly grounded. Extension cables should also be grounded. Fire or electric shock could occur on improperly grounded equipment.</p>	 <p>No disassembling.</p> 	<p>Do not remove covers, repair or modify the machine by yourself. You may be injured by high voltage, very hot parts or sharp edges inside the machine. Unauthorized modification is prohibited.</p>



CAUTION

This indicates that there is the risk of personal **Injury** or **damage** to objects if the machines are improperly handled contrary to this indication.

Precautions

The following precautions will help to ensure that this machine will continue to function correctly.

- Try to avoid locations that have the following adverse conditions:
 - * Temperatures out of the specification
 - * Direct sunlight
 - * High humidity
 - * Shared power source
 - * Excessive vibration
 - * Dust/Gas
- Do not subject the machine to sudden shocks.
- Do not press the keys too hard. Keys will operate correctly if they are touched lightly.
- Clean the cover and keyboard, etc. by wiping with a dry cloth or a cloth soaked with detergent and wrung out thoroughly. Never use thinner or other volatile solvent for cleaning.
- At the end of the day, turn the power OFF, then clean and inspect the exterior of the machine.
- Try to avoid using this equipment on the same power supply as high voltage equipment or equipment likely to cause mains interference.
- USE ONLY TOSHIBA TEC SPECIFIED consumables.
- DO NOT STORE the consumables where they might be exposed to direct sunlight, high temperatures, high humidity, dust, or gas.
- When moving the machine, take hold of the drawer and lift the machine.
- Do not place heavy objects on top of the machines, as these items may become unbalanced and fall causing **injury**.
- Do not block the ventilation slits of the machines, as this will cause heat to build up inside the machines and may cause **fire**.
- Do not lean against the machine. It may fall on you and could cause **injury**.
- Place the machine on a stable and level surface.

Request Regarding Maintenance

- Utilize our maintenance services.
After purchasing the machine, contact your authorized TOSHIBA TEC representative for assistance once a year to have the inside of the machine cleaned. Otherwise, dust will build up inside the machines and may cause a **fire** or a **malfunction**. Cleaning is particularly effective before humid rainy seasons.
- Our preventive maintenance service performs the periodic checks and other work required to maintain the quality and performance of the machines, preventing accidents beforehand.
For details, please consult your authorized TOSHIBA TEC representative for assistance.
- Using insecticides and other chemicals
Do not expose the machines to insecticides or other volatile solvents. This will cause the cabinet or other parts to deteriorate or cause the paint to peel.

OPERATOR'S GUIDE

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1. TO OUR CUSTOMERS

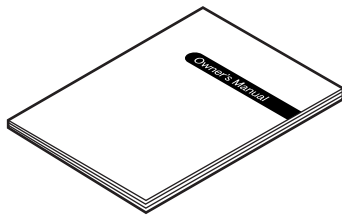
Thank you for choosing the TEC electronic cash register MA-600 series. This instruction manual provides a description of the functions and handling of this ECR and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any questions concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transport or there are any unclear points in this manual, please contact your local TOSHIBA TEC representative.

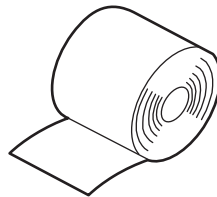
- The specifications described in this manual may be modified by TOSHIBA TEC, if necessary.
- Be sure to keep this manual for future reference.

2. ACCESSORIES

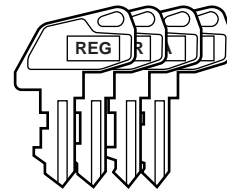
Confirm that all the following accessories are contained in the carton. If any accessories are missing or damaged, contact your nearest TOSHIBA TEC service representative.



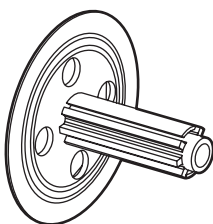
Owner's Manual (1 copy)



Paper Roll (2 pcs.)



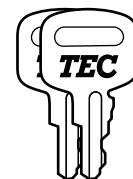
Mode Selector Keys
(REG, MGR, MA, S key: 2 pcs. each)



Journal Take-up Reel (1 pc.)

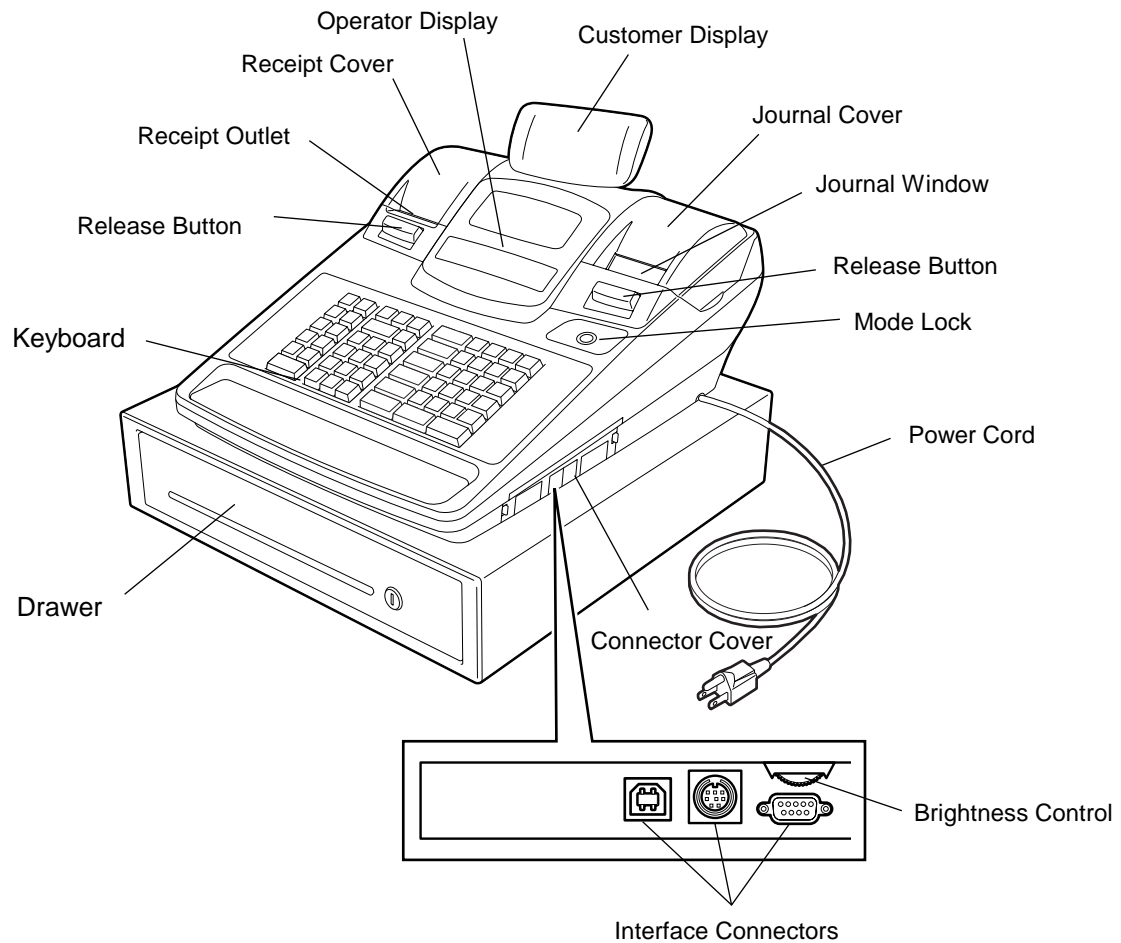


Drawer Key (2 pcs.)



Journal Printer Cover Key (2 pcs.)

3. APPEARANCE AND NOMENCLATURE



Receipt Cover and Journal Cover

The Receipt Cover is provided for the receipt paper holder and the receipt printer.
The Journal Cover with a lock is provided for the journal paper holder and the journal printer.

Receipt Outlet or Journal Window

The receipt for the finalized sale is issued from the Receipt Outlet.
The operator sees which items have already been entered through the Journal Window.

Mode Lock

Type of register operation is selected by the Mode Lock. (See Section 4.)

Operator Display and Customer Display

The entered contents and the status of the ECR are confirmed on these displays. (See Section 5.)

Keyboard

Sale items are entered through the Keyboard. (See Section 8.)

Interface Connectors (USB Connector, Expansion PLU Keyboard Connector, RS-232C Connector)

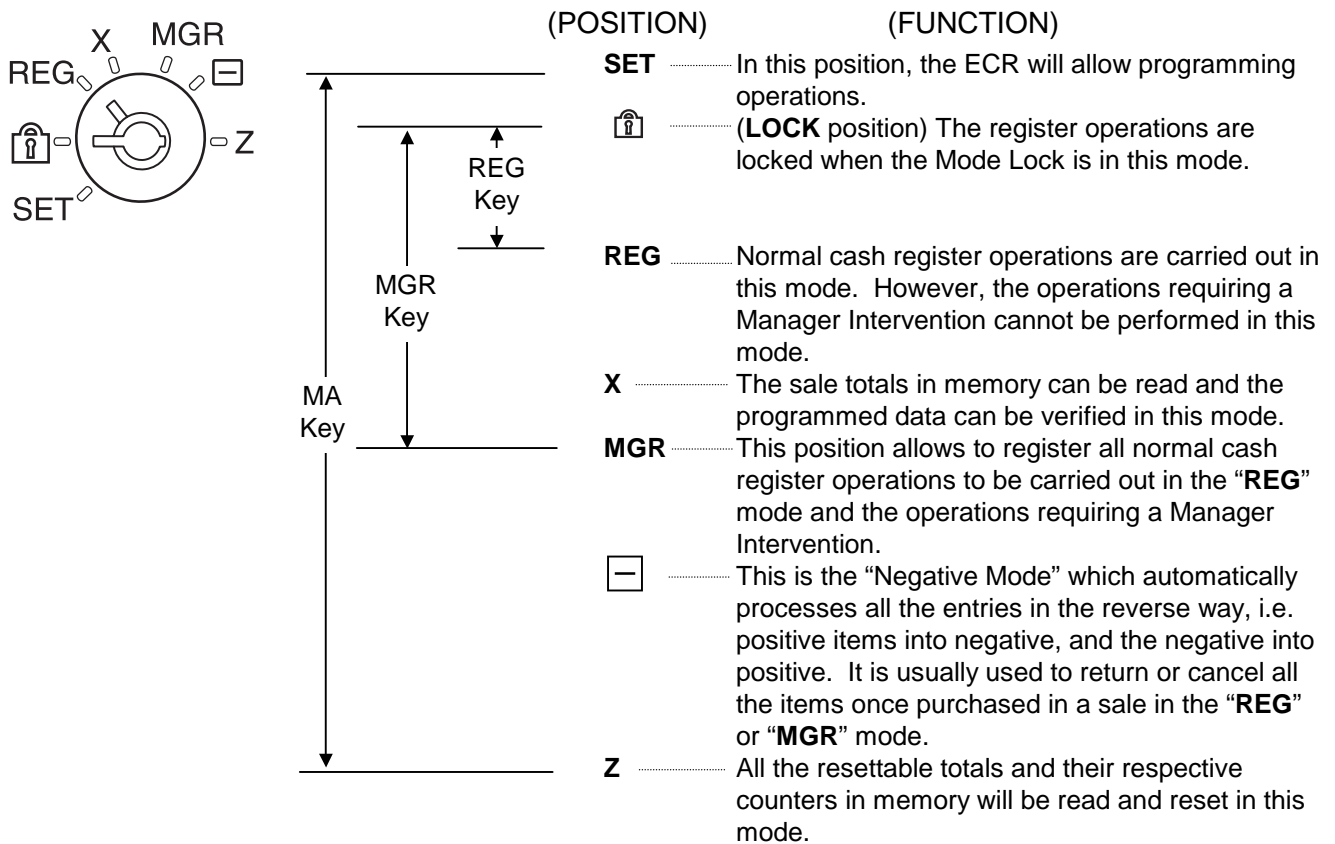
The USB Connector allows a connection of a PC. (for maintenance)
The Expansion PLU Keyboard Connector allows a connection of an Expansion PLU Keyboard (PK-2-BM-R).
The RS-232C Connector allows a connection of a Remote Slip Printer.

Brightness Control

To make the LCD display brighter, turn the Brightness Control clockwise. To make it darker, turn the control counterclockwise.

4. MODE LOCK AND MODE SELECTOR KEYS

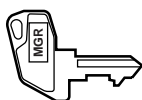
4.1 Mode Lock



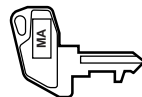
4.2 Mode Selector Keys



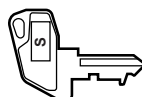
REG Key: The **REG** key is used by the cashier or clerk who operates the ECR. This key can access the positions of **LOCK** and **REG** of the Mode Lock.



MGR Key: The **MGR** key is used by the store manager. This key can access the positions of **LOCK**, **REG**, **X**, and **MGR**.



MA Key: The **MA** key is used by the owner who will daily supervise the collection of money and the printout of transactions recorded by the ECR. This key is also used when programming the ECR. This key can access the positions of **SET**, **LOCK**, **REG**, **X**, **MGR**, **-** and **Z**.



S Key: The **S** key is used by the service person from TOSHIBA TEC representative to access any position. To prevent programmed data and sales data from being changed or cleared by mistake, do not use this key without instructions of our TOSHIBA TEC representative.

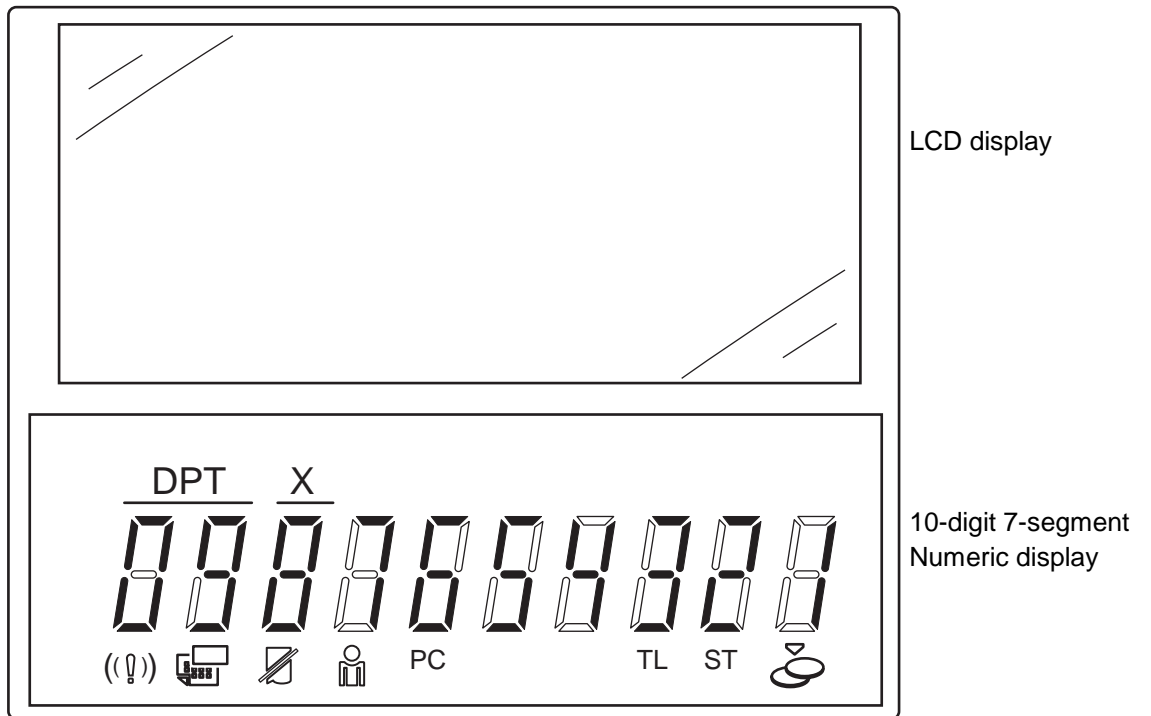
The keys may be inserted or pulled out at the "**LOCK**" or "**REG**" position.

In the OPERATOR'S GUIDE, functions and operations will be described within the range of the Mode Lock positions of **LOCK** and **REG** using the REG key. Since operations requiring other positions and keys are controlled by the store manager, they are described in the MANAGER'S GUIDE.

5. DISPLAY

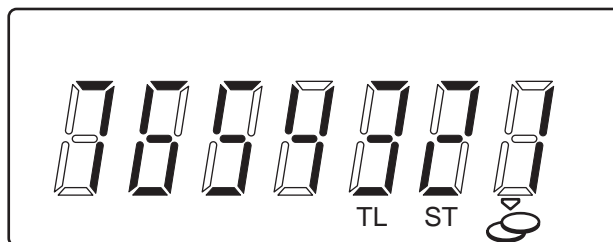
The operator display is located at the top of the ECR just above the keyboard.

OPERATOR DISPLAY (Front Display)



The customer display can be moved horizontally, and thus is fully adjustable according to the position of the customer.

CUSTOMER DISPLAY (Rear Display)

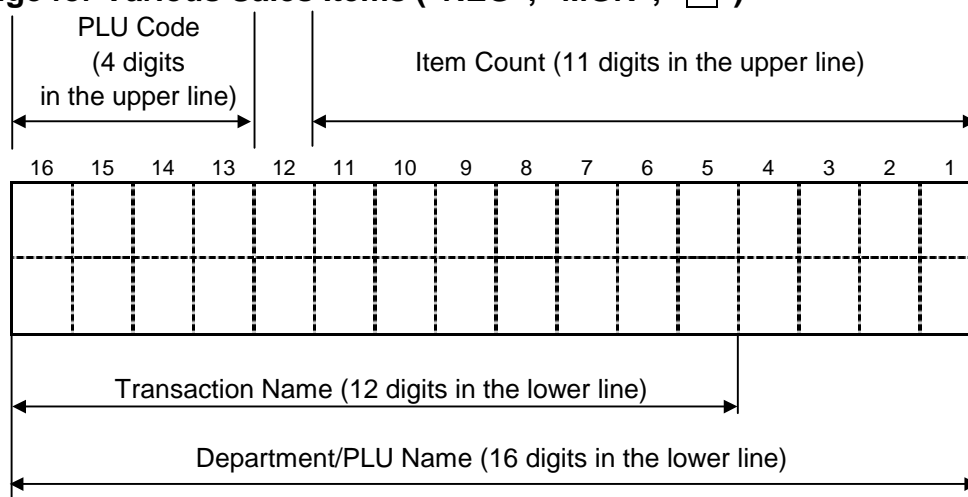


5.1 LCD Display

The LCD display adopts 192 x 64 dot LCD display tubes and displays department name, PLU name, item count, transaction name, error message, and so on. Numbers of digits and lines to be required vary depending on the status of the mode lock.

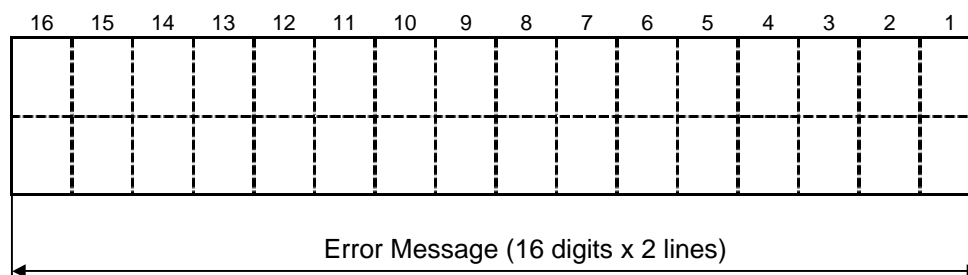
Status of the Mode Lock	Description
REG, MGR, <input type="checkbox"/> modes	Department name, PLU name, item count, transaction name, etc. are displayed with up to 16 one-byte or 8 two-byte characters per line in two lines.
X, Z modes	Read/Reset menus and titles are displayed with up to 24 one-byte or 12 two-byte characters per line in four lines.
SET mode	Programming menu and programmed data are displayed with up to 24 one-byte or 12 two-byte characters per line in four lines.

- Digit Range for Various Sales Items (“REG”, “MGR”, “”)



- Error Messages (in any mode except “LOCK”)

When an error occurs, an error message (programmable) is displayed with an error buzzer generated (a long tone).



Read the error message, depress the [C] key to cancel the error status and tone, operate the sequence again after removing the cause of the error.

The following table shows the cause of the error.

If the error status cannot be cancelled or an error message not listed in the table on the next page is displayed, please contact your nearest TOSHIBA TEC representative.

ERROR MESSAGE TABLE

Error Message (Standard Setting)	Cause of the Error	Canceling the Error
CASHING PROHIBIT	Check cashing prohibition error	The depressed key has been programmed with the status of no-purchase cashing prohibition. Contact your nearest TOSHIBA TEC representative if necessary.
CLOSE DRAWER	The drawer must be closed before the operation.	Fully close the drawer.
CODE ERROR	A specified code has not been programmed at the PLU entry.	Input the PLU code that has been programmed.
COMP QUANTITY	Quantity is not entered at a PLU entry even when the quantity entry compulsion status has been selected.	Input a quantity.
COMPULSORY CODE	No code has been entered where it is compulsory.	Input a specified code.
COMPULSORY SLIP	No slip is set when the remote slip print compulsion for the previous balance entry has been selected by the program option.	Set a slip paper on the remote slip printer.
CONDITION ERROR	Condition error	Take a reset report (Z report) prior to performing the programming operation.
CONSIGNMENT COMPULSORY	Consignment compulsion error	Perform a consignment print operation.
COVER OPEN ← RECEIPT	Receipt cover open error	Fully close the receipt cover, then depress the [C] key.
FIN R/A PROHIBIT	Finalizing a Received-on-account entry is attempted even when it is prohibited.	Finalize the Received-on-account entry by another media key that has been programmed with permission.
FS TL ONLY	Food stamp only error	Contact your nearest TOSHIBA TEC representative if necessary.
FS TL PROHIBIT	Sale finalization by the food stamp is prohibited.	Contact your nearest TOSHIBA TEC representative if necessary.
HEAD OPEN JOURNAL →	Journal paper retainer open error	Fully close the journal paper retainer, then depress the [C] key.
HEAD TEMP ERROR	The print head has overheated.	Turn off the ECR and contact your nearest TOSHIBA TEC representative.
MANAGER REQUIRED	The operation requires a Manager Intervention.	Call your manager to perform the operation in MGR mode.
MDR COMP	When the money declaration feature has been selected, the issuance of the daily financial report or prohibited reports is attempted prior to performing the money declaration operation.	Call your manager to perform a money declaration operation.
MISC ERROR	Other errors	
MODE-CH PROHIBIT	Mode change is done while any operation is performed.	Return the Mode Lock to a proper position.
NEGATIVE NUMBER	Negative balance error when the credit balance is allowed by the program option.	The program option setting is required. Contact your nearest TOSHIBA TEC representative if necessary. Or perform the operation in MGR mode.
NO PRICE INPUT	The open-price department/PLU entry without the price entry is attempted.	Input a price, then perform the registration operation.
NO RESPONS	No response was sent from the EFT terminal, causing a timeout error on the ECR.	Check the status of the EFT terminal, then retry to perform the operation.
OPERATION ERROR	Key sequence or operation procedure error	Depress the [C] key, then retry to perform the operation correctly.
OV_TEND PROHIBIT	The depressed key has been programmed with the status of over-tendering prohibition.	Perform a registration operation so as not to result in over-tendered amount.
PAPER END JOURNAL →	The journal printer runs out of the paper.	Replace the journal roll with a new one, then depress the [C] key.
PAPER END ← RECEIPT	The receipt printer runs out of the paper.	Replace the receipt roll with a new one, then depress the [C] key.
PC COMM ERROR	File receiving error (when a PC is connected).	Retry to perform PC communication.
PIN ERROR	Entry of the PIN No. in the EFT transaction caused an error.	Depress the [C] key, then retry to perform the operation correctly.
PRICE INPUT PROHIBIT ERROR	A price entry is attempted at the preset-price department/PLU entry.	Depress the [OPEN] ([PR OPEN]) key, then input a price.
PROGRAM ERROR	Programming error	Contact your nearest TOSHIBA TEC representative.
RECEIPT REQUIRED	Prior to the issuance of store receipt, a subsequent transaction was attempted in an EFT transaction.	Issue an EFT store receipt, then perform a subsequent transaction.
RESPONS NG	Response from the EFT terminal was not sent correctly.	Retry to perform the EFT transaction operation.
RETURN PROHIBIT	Return entry with the [EBT CASH] or [EBT F/S] key is prohibited by the program option setting.	Contact your nearest TOSHIBA TEC representative if necessary.

ERROR MESSAGE TABLE (continued)

Error Message (Standard Setting)	Cause of the Error	Canceling the Error
SH_TEND PROHIBIT	The depressed key has been programmed with the status of short-tendering prohibition.	Perform a registration operation so as not to result in short-tendered amount.
SLIP OFF LINE	Remote slip printer is off line status. (The remote slip printer is off or the printer cable is disconnected.)	When this error message is displayed, the [ITEM CORR] key depression will let a confirmation message displayed. By following the confirmation message, the [ITEM CORR] key depression will let the printer disconnected, meanwhile the [C] key depression will let the printer remain connected.
SLIP PAPER OUT	No slip paper is set.	Set a slip paper on the remote slip printer.
TENDER ONLY	Tender only error	The depressed key has been programmed with the tender-only status. Contact your nearest TOSHIBA TEC representative if necessary.
TOTAL ONLY	Total only error	The depressed key has been programmed with the total-only status. Contact your nearest TOSHIBA TEC representative if necessary.
TXBL TL COMP	[TXBL TL] key entry compulsion error	Depress the [TXBL TL] key prior to the sale finalization operation.
VALIDATION CMP	The operation requires a validation print.	
VOLTAGE ERROR	Printer voltage error	Contact your nearest TOSHIBA TEC representative.






It is recommended to prepare a copy of the above table, and place it near the ECR.

5.2 10-digit 7-segment Numeric Display

(1) Numeric Display

- Amount** (8 digits) Displays the numeric data such as amount and quantity. When the obtained total or subtotal amount is 10-digit value, the **X** and **DPT** digits are also used for the amount display. When no entries are under way and the Mode Lock is in the **REG** position, the current time is displayed.
- DPT** (2 digits) Displays a Department Code of a department item just entered. The department name is also displayed in the LCD display. It remains lit when the entry of the same department item is repeated.
- X** (1 digit) Displays the repeat count of the same Department or PLU item. The count is indicated from the second entry on, and only the lowest digit of the repeat count will be displayed even when the count exceeds nine (such as "0" for 10, "1" for 11, etc.)

5.3 Message Description (Status Lamps)

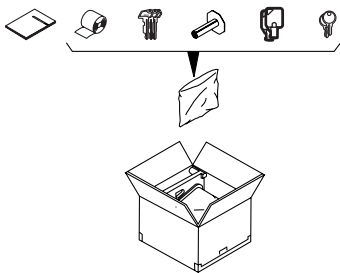
Status Lamp	Color	Description
ALM 	Red	Illuminates with the alarm buzzer generated to indicate that the last operation or numeric entry was an error. To clear the error status, depress the [C] key.
SLIP 	Green	Blinks when the program option "slip print compulsory" has been selected. This lamp does not illuminate even when a slip is set to the slip printer.
R OFF 	Red	Illuminates when the Receipt-OFF mode is declared by the [LOG/RECEIPT] (or [RECEIPT]) key. In this condition, no receipts will be issued for a sale to be entered. It extinguishes by depressing the [LOG/RECEIPT] (or [RECEIPT]) key again for Receipt-ON mode.
SIGN ON 	Green	Illuminates only when the Cashier Code Entry method is selected. It illuminates when a cashier has signed ON. It extinguishes when the cashier has signed OFF, and the message "LOG" is displayed in the LCD display instead.
PC	Green	Illuminates during data communication between the ECR and a PC.
TL	Green	Illuminates on a finalizing operation with the total amount displayed when the sale is finalized without any amount tendered.
ST	Green	Illuminates when the [ST] key is depressed, indicating that the displayed amount is subtotal.
CG 	Red	When an amount tendering operation is performed, it illuminates with the change due displayed.

6. OUTLINE OF PREPARATION PROCEDURE BEFORE OPERATING THE ECR

This chapter shows the outline of set-up procedure of the ECR before actually starting the register operation.

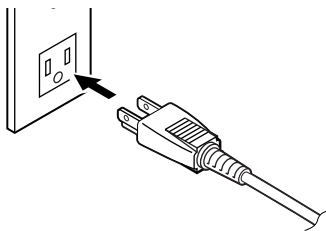
WARNING!

1. Be sure to connect the power plug into a rated wall outlet. Failure to do this may cause fire or electric shock.
2. Do not connect or disconnect the power plug with wet hands as this may cause electric shock.

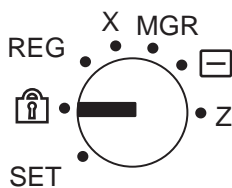


1. Remove the ECR from the carton. And take out all the parts and accessories.

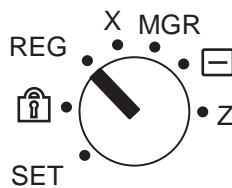
2. Place the ECR on a stable and level surface, then remove the tapes and seals for holding parts or protecting surface of the ECR.



3. Connect the power plug into a wall outlet. Make sure that the outlet voltage matches that of the power required for the ECR.



4. Insert the **REG** key into the mode lock.



5. Turn the mode lock to the **REG** position and power on the ECR.

6. Install the receipt and journal rolls. (Refer to the following section "Installing/Replacing the Receipt/Journal Roll".)

6.1 Installing/Replacing the Receipt/Journal Roll

WARNING!

1. Never touch the print head and around it just after printing. You may get burned as the print head becomes very hot during printing.
2. Carefully close the receipt cover so as not to catch your fingers. You may get injured.
3. Do not touch the cutter portion as you may get injured.

CAUTION!

1. Be sure to use the paper which meets the specifications below. Failure to do this may cause a paper jam and a printer failure.

Media ----- Thermal roll paper

Width ----- 58 +0/-1 mm

Thickness----- 0.06 mm to 0.08 mm

Outside dimension----- 80 mm or less

Recommended thermal paper----- Only paper rolled onto a core is acceptable, however, the paper end should not be pasted to the core.

Standard paper: TF60KS-E (Nippon Paper Industries)

PD150R (Oji Paper Co., Ltd)

High-sensitive paper: TF50KS-E4 (Nippon Paper Industries)

Medium-term preserving paper: TP60KS-F1 (Nippon Paper Industries)

P220VBB-1 (MITSUBISHI PAPER MILLS LIMITED)

PD170R (Oji Paper Co., Ltd)

Long-term preserving paper: TP50KJ-R (Nippon Paper Industries)

PD160R-N (Oji Paper Co., Ltd)

AFP-235 (MITSUBISHI PAPER MILLS LIMITED)

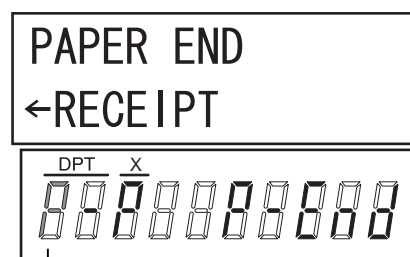
HA220AA (MITSUBISHI PAPER MILLS LIMITED)

PD152R (Oji Paper Co., Ltd)

2. Do not pull the receipt being issued during a print operation. When taking an issued receipt, be sure to confirm that the cutter operation stops. Failure to do this may cause a paper jam or a printer failure.
3. Be sure to attach the receipt cover before issuing the receipt. Failure to do this may cause a printer failure.

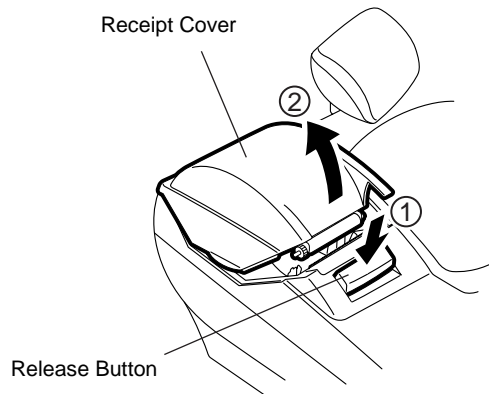
Turn the mode lock to the **REG** position using the Mode Selector Key to perform the paper roll installation in this section.

When the receipt roll is installed for the first time or when the receipt paper ends, the following error status is indicated both on the LCD display and on the 10-digit 7-segment Numeric display. In this case, install or replace the receipt roll by following the procedure on the next page. (See **Installing/Replacing the Receipt Roll.**)

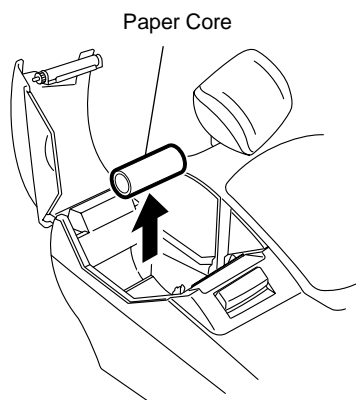


P blinks on the leftmost digit of the 10-digit 7-segment Numeric display.

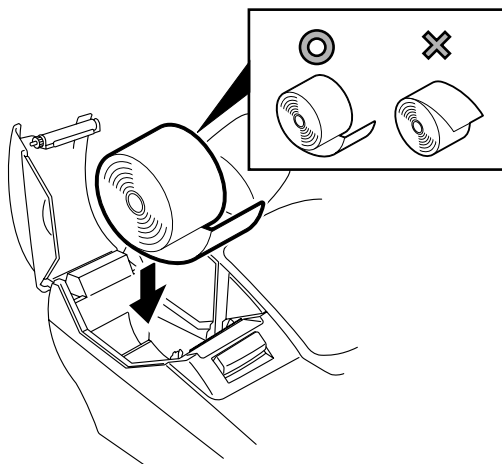
Installing/Replacing the Receipt Roll



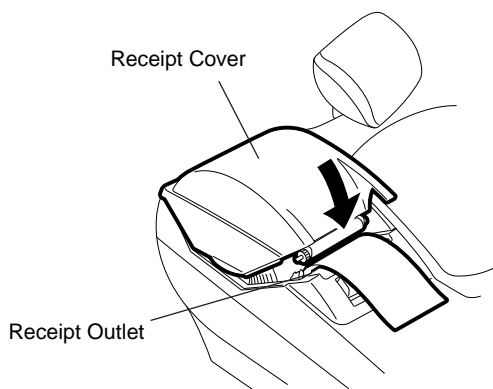
1. Push the release button and open the receipt cover.



2. Remove the remaining paper roll or paper core from the receipt paper holder. (When loading the receipt paper roll for the first time, go to Step 3.)

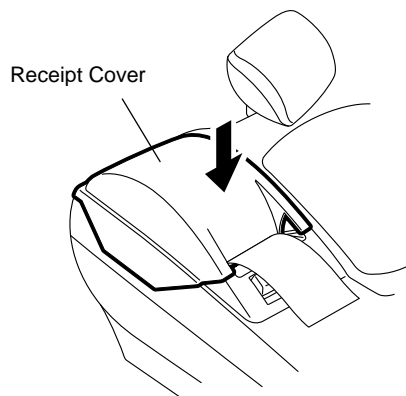


3. Load the receipt paper roll so that the beginning of the paper faces down.

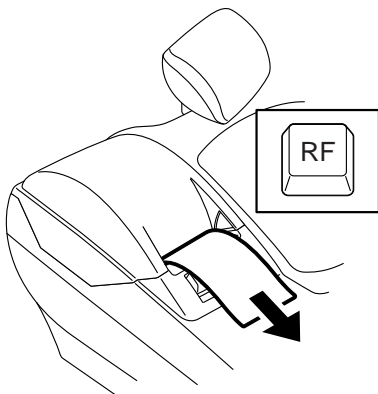


4. Pull the beginning of the receipt paper out from the receipt outlet. Slowly close the receipt cover while holding the paper.

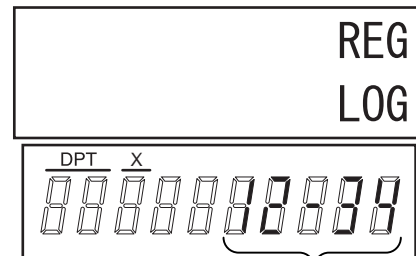
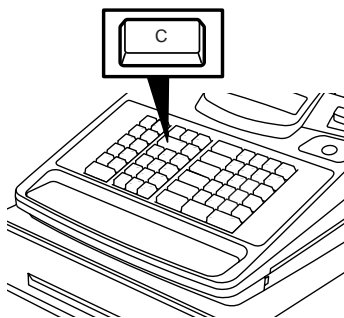
5. Fully close the receipt cover until it clicks.



6. Press and hold the **[RF]** key for a few seconds and make sure that the receipt paper is fed correctly. If it is not fed correctly, start from Step 1 again.



7. Press the **[C]** key to cancel the error status. Then the status shown in the figure is displayed.

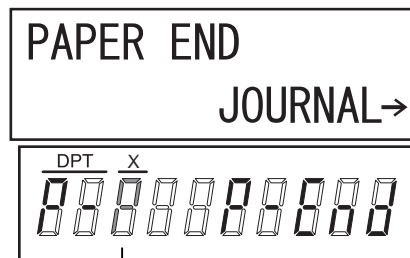


Current time is displayed here.

8. Manually cut the receipt paper which was fed.

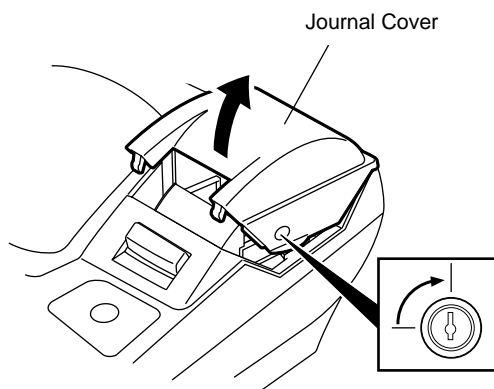


When the journal roll is installed for the first time or when the journal paper ends, the following error status is indicated both on the LCD display and on the 10-digit 7-segment Numeric display. In this case, install or replace the journal roll by following the procedure below. (See **Installing/Replacing the Journal Roll.**)

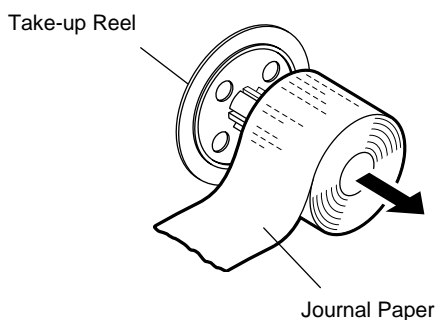


P blinks on the third leftmost digit of the 10-digit 7-segment Numeric display.

Installing/Replacing the Journal Roll

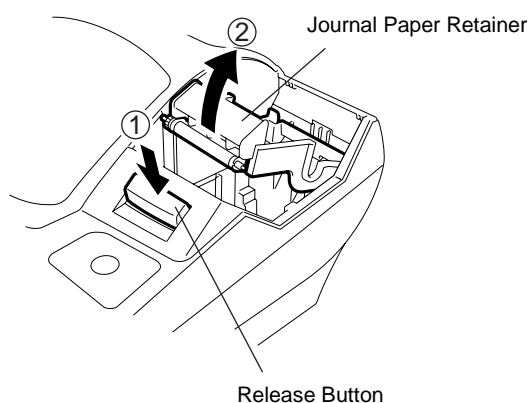


1. To remove the journal cover, insert the printer cover key to the journal cover lock, and then turn it 90° clockwise.

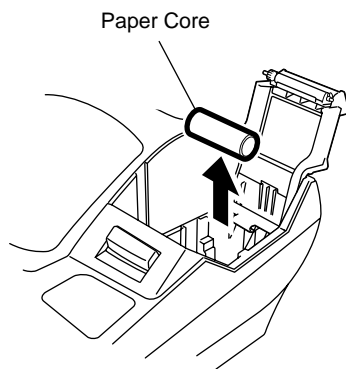


2. When installing the journal roll for the first time, go to Step 3. When replacing the journal roll, remove the take-up reel from the holder, then pull the paper out of the reel.

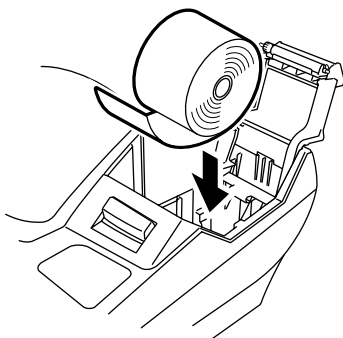
CAUTION: Never try to pull out the remaining paper end by hand. It may cause a paper jam. The remaining paper should be fully taken up by pressing the **[JF]** key.



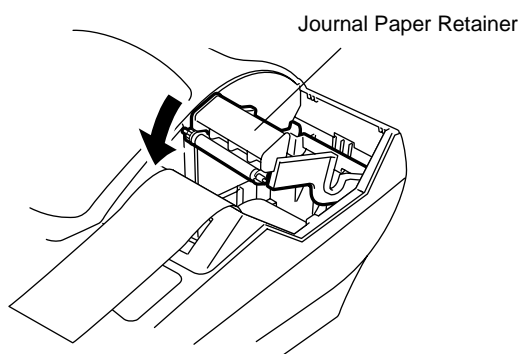
3. Push the release button to raise the journal paper retainer.



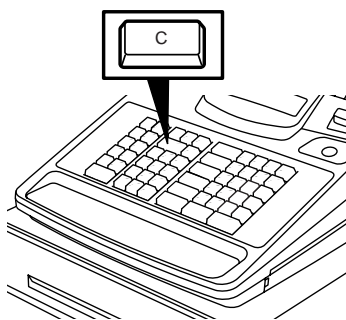
4. When installing the journal roll for the first time, go to Step 5.
When replacing the journal roll, remove the paper core from the journal paper holder.



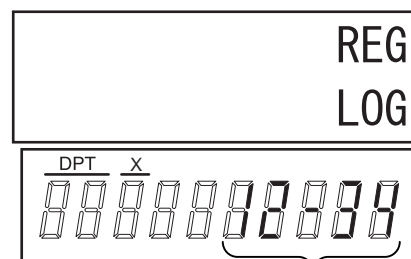
5. Load the journal roll as indicated with the figure on the left. Then, pull the end of the journal roll until about 8 inches (about 20 cm) of paper comes out of the journal outlet.



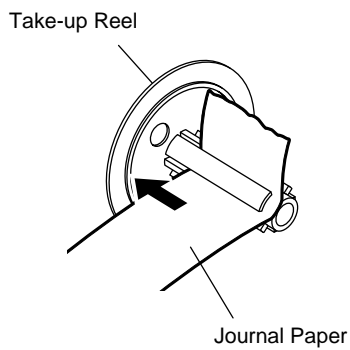
6. Slowly close the journal paper retainer until it clicks.



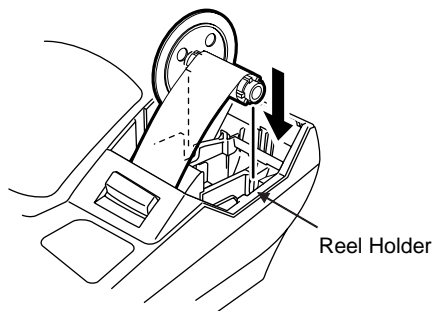
7. Press the [C] key to cancel the error status. Then the status shown in the figure is displayed.



Current time is displayed here.



8. Insert the paper end into the slit of the take-up reel and wind it around the reel twice or three times.

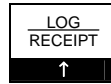


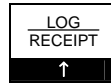
9. Set the take-up reel into the reel holder. Then press the **[JF]** key and make sure that the journal paper is taken up correctly. If it is not taken up correctly, the take-up reel may not be set into the reel holder correctly. In this case, retry to set the take-up reel into the reel holder.

10. Attach the printer cover.

7. KEYBOARD LAYOUT

The following are typical keyboard layouts for the MA-600-US series. Since this series is designed to be capable of programming most of the keys to be placed in the desired place on the keyboard, these are merely examples. The keyboard of your ECR should have its own layout according to the store's requirements.



NOTE: For keys assigned two functions such as  key, the function on the bottom is activated when performing a read/reset or programming operation.

-- Ordinary Type Keyboard (US Standard) --

LOG RECEIPT ↑	NS Del	VOID History	RF	JF	1	6	11	PO	RECEIPT ISSUE
Rtn MDSE ↓	ALL VOID	C		TX/M	2	7	12	R/A	DOLL DISC
FS/M ←	ITEM CORR Rtn	7	8	9	3	8	13	VND CPN	%-
OPEN →	@/FOR Dbl	4	5	6	4	9	14	STR CPN	EX
# Enter	AMT A/a	1	2	3	5	10	15	FS TL TEND	Chg
PLU		0	00	.	ST ?	AT/TL End		CHECK TEND	

Other keys not placed in the keyboard above:

Additional Department Keys (16 to 40)

<p>[000] (Triple-zero Key) [%+] [CREDIT 1] and [CREDIT 2] [PR OPEN] [LC OPEN] [CONSIGNMENT] [TX2/M] to [TX4/M] [PB+] [PB-] [TRF] [RPT] [CUR 1] to [CUR 5]</p>	<p>PLU Preset-code Keys [LOG] [DP#] [RECEIPT] [CLK 1] to [CLK 8] [1st PRICE] [2nd PRICE] [3rd PRICE] [CASH 1] to [CASH 3] [MISC TEND] [VALIDATE] [TXBL TL]</p>	<p>[TAX] [PRICE SHIFT 1] to [PRICE SHIFT 3] [DEBIT] [EBT CASH] [EBT F/S] [MANUAL CARD#] [OFFLINE AUTH] [STORE RECEIPT] [POST AUTH] [VOUCHER AUTH] [BALANCE INQUIRY]</p>
		<p>} Keys for the Electronic Fund Transfer specification</p>

-- Flat Type Keyboard (US Standard) --

1	8	15	22	29	36	43	50	1	8	LOG RECEIPT	VOID	ITEM CORR	ALL VOID	RF	JF
2	9	16	23	30	37	44	51	2	9	RECEIPT ISSUE	TX/M	EX	RTN MDSE	R/A	PO
										%-	C		@/FOR	Chg	NS
3	10	17	24	31	38	45	52	3	10					Rtn	Enter
4	11	18	25	32	39	46	53	4	11	#	7	8	9	\$5.00	
5	12	19	26	33	40	47	54	5	12	AMT	4	5	6	\$10.00	
6	13	20	27	34	41	48	55	6	13	PLU	1	2	3	ST	
7	14	21	28	35	42	49	56	7	14		0	00	.	AT/TL	

PLU Preset-code keys

Department keys

Other keys not placed in the keyboard above:

Additional Department Keys (15 to 40)

[PR OPEN]
 [LC OPEN]
 [FS/M]
 [VND CPN]
 [STR CPN]
 [FS TL TEND]
 [DOLL DISC]
 [CHECK TEND]
 [000] (Triple-zero Key)
 [%+]
 [CREDIT 1] and [CREDIT 2]
 [OPEN]
 [CONSIGNMENT]
 [TX2/M] to [TX4/M]
 [PB+]

[PB-]
 [TRF]
 [RPT]
 [CUR 1] to [CUR 5]
 PLU Preset-code Keys
 [LOG]
 [DP#]
 [RECEIPT]
 [CLK 1] to [CLK 8]
 [1st PRICE]
 [2nd PRICE]
 [3rd PRICE]
 [CASH 1] to [CASH 3]
 [MISC TEND]
 [VALIDATE]

[TXBL TL]
 [TAX]
 [PRICE SHIFT 1] to [PRICE SHIFT 3]
 [DEBIT]
 [EBT CASH]
 [EBT F/S]
 [MANUAL CARD#]
 [OFFLINE AUTH]
 [STORE RECEIPT]
 [POST AUTH]
 [VOUCHER AUTH]
 [BALANCE INQUIRY]

Keys for the Electronic Fund Transfer specification

8. FUNCTIONS OF EACH KEY

This section briefly describes functions of each key for your quick reference purposes. See the reference pages in Section 11. REGISTERING PROCEDURE AND PRINT FORMAT for detail operation sequences.

TABLE OF KEY FUNCTIONS

Key	Functions	Reference page
LOG	LOG Key Used in case of Cashier Code Entry Method, to declare start or end of normal operation by cashier. For details, refer to Section 9.1.	9-1
RECEIPT	Receipt Key Used to change the receipt-ON/OFF mode.	11-3
LOG RECEIPT	Log/Receipt Key This is a dual-function key that has both [LOG] and [RECEIPT] functions.	See pages for [LOG] and [RECEIPT]
RECEIPT ISSUE	Receipt Post-Issue Key Used to issue the receipt of a sale when the sale has already finalized in the Receipt-OFF mode.	11-4
RF	Receipt Feed Key Used to advance the receipt roll and operated by holding it down until the paper has advanced to the required position.	-----
JF	Journal Feed Key Used to advance the journal roll in the same fashion as the [RF] key is used to receipt roll.	-----
7 8 9 4 5 6 1 2 3 0 00 •	Numeric Keys Used to enter numeric values. Depressing the [00] key once is the same as depressing the [0] key twice consecutively. Depressing the [000] key once is the same as depressing the [0] key three times consecutively. The [.] key is used to designate the decimal point of a percentage rate or a quantity.	-----
1 to 40	Department Keys Used to enter each item, serving for classifying merchandise by department.	11-5
DP#	Department No. Key Used to access a department by designating the department code, instead of depressing the specific Department key. With this key installed, a maximum of 40 departments may be controlled.	See pages for [DEPT]
PLU	PLU (Price Look Up) Key Used to enter a PLU that is linked to a department.	11-6
C	Clear Key Used to clear numeric entries or a declaration key entry.	-----
#	Non-add Number Print Key Used to print a non-add number (such as Customer No., Credit Card No., etc.) on the receipt and journal for future reference.	11-25
NS	No-sale Key Used to open the cash drawer without relating a sale.	11-2

Key	Functions	Reference page
AMT	Amount Key Used to enter a manual amount of PLU item. And also used to enter an amount or price for an open department when the department is accessed by the [DP#] key.	11-5 to 11-10, 11-12
PR OPEN	Preset Open Key Used to release a preset-price department or PLU items for a manual price entry.	11-5 to 11-10
LC OPEN	Listing Capacity Open Key Used to release the high or low amount limit preprogrammed on each department or PLU.	11-25
OPEN	Preset and Listing Capacity Open Key This is a dual-function key that has both [PR OPEN] and [LC OPEN] functions.	See pages for [PR OPEN] and [LC OPEN].
@/FOR	At-For (Quantity Extension) Key Used to multiply a department or PLU item entry by a quantity. Also used to auto-calculate and enter a split-package price or triple multiplication.	11-7
VND CPN	Vendor Coupon Key Used to enter the amount of vendor coupons received from the customer.	11-24
STR CPN	Store Coupon Key Used to subtract a store coupon amount redeemed through a department.	11-24
RTN MDSE	Returned Merchandise Key Used to refund money to a customer who has returned items already purchased.	11-16
DOLL DISC	Dollar Discount Key Used to subtract an amount from the sale such as a discount during a sale.	11-23
%+	Percent Charge Key Used to add a percent rate to a sale.	11-23
%-	Percent Discount Key Used to subtract a percent rate from a sale.	11-23
ITEM CORR	Item Correct Key Used to remove the last item from the bill, printing a line through the item on the receipt and journal.	11-14, 11-15
VOID	Void Key Used to delete an item entered previously (before the last item) in the current transaction.	11-15
ALL VOID	All Void Key Used to cancel all the items entered in the current sale.	11-15
R/A	Received-on-Account Key Used to enter payments received on account, i.e. not relating to a sale.	11-22
PO	Paid-Out Key Used to record amounts paid out of the cash drawer not relating to a sale.	11-22

Key	Functions	Reference page
ST	Subtotal Key Used to obtain subtotal of the current transaction.	11-16
AT/TL	Cash Amount Tendered/Cash Total Key Used to record all cash paid transactions, and will be able to finalize a sale operation.	11-17
CHECK TEND	Check Key This is one of non-cash media keys, and used to cash a check when the ECR is outside a sale, or to finalize the transaction as a check payment.	11-17, 11-18
Chg	Charge Key This is another non-cash media key, and usually programmed as "Charge Sale Total" key. This key can also be used for payments in credit cards, if the [CARD No.] key is installed.	11-17
MISC TEND	Miscellaneous Media Key This is one of additional non-cash media keys that may be installed besides [CHK TEND] and [Chg]. This key has the same functions and programmabilities as the [CHK TEND] key, and usually used as Tender-only key.	11-17
CREDIT 1 , CREDIT 2	Credit 1 & Credit 2 Keys These are additional non-cash media keys that may be installed besides those already described, according to the requirements of each store.	11-17
CASH 1 to CASH 3	Cash Payment 1 to 3 Keys Used for cash-tendering operation with the respective preset amount.	11-17
PB+ or PB-	Previous Balance Keys Used to enter a previous balance in a charge posting operation.	11-29
TRF	Transfer Key Used to transfer the entire balance in a charge posting operation with no payment.	11-29
TX/M or: TX1/M to TX4/M	Tax Modifier Key(s) Used to reverse the taxable/non-taxable status on departments, PLUs, or other tax-status programmable keys. Also used in Tax Exempt operations.	11-21
FS TL TEND	Food Stamp Total/Tender Key This key is used to read the food stampable portion amount of a sale and to tender an amount in food stamp.	11-20
EX	Tax Exempt Key Used to declare the exemption of the taxes from the sale.	11-21
FS/M	Food Stamp Modifier key Used to reverse the Food Stampable/Non-stampable status of a Department, PLU, and other function keys programmable with food-stampable status.	11-21
RPT	Repeat Key Used to repeat a department or PLU item entry.	11-9

Key	Functions	Reference page
CUR 1 to CUR 5	Foreign Currency Keys Used in tendering or exchange with foreign currencies.	11-26, 11-27
CLK 1 to CLK 8	Cashier 1 to Cashier 8 Keys Used to declare start or end of normal operation by cashier (instead of using [LOG/RECEIPT] (or [LOG]) key).	9-1
1st PRICE, 2nd PRICE, 3rd PRICE	PLU Price Shift Key Used to shift the PLU price.	11-28
PRICE SHIFT 1 to PRICE SHIFT 3	Price Shift 1 to 3 Keys Used in PLU price shift operation.	11-27
PLU Preset-code Keys	Each of these keys is programmed with a PLU Code. That is, depressing one of those keys is equal to entering a PLU Code then depressing the [PLU] key.	See pages for [PLU]
CONSIGNMENT	Consignment Key Immediately after performing the Department/PLU entry or finalizing a sale, this key is used for issuing a receipt only for the entry or sale finalization just performed.	11-31
VALIDATE	Validation Key Used to print an item on a validation slip after finalizing a sale. Validation print operation is performed on the slip printer.	11-31
TAX	Manual Tax Key Used to enter an irregular tax amount that cannot be calculated on the basis of the programmed tax table, and to add it to the sale total.	11-21
TXBL TL	Taxable Total Key Used to obtain the taxable total (the sale total including taxes due) of the current transaction.	11-21

NOTE: To perform the operations regarding the Electronic Fund Transfer (EFT), the hardware device to connect the EFT terminal and the software setup to realize the EFT function are required. For details, ask your TOSHIBA TEC representative.

9. CASHIER SIGNING OR CASHIER KEY OPERATIONS

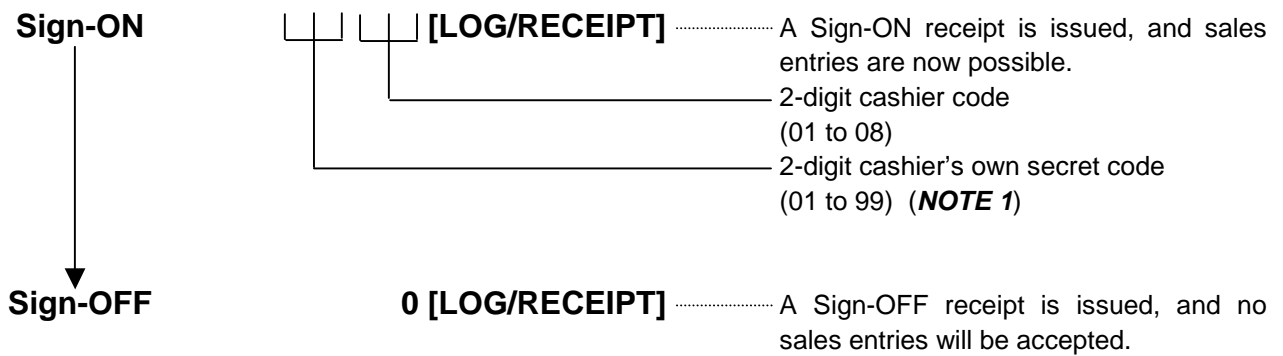
9.1 Cashier Code Entry

Each cashier will sign-ON or sign-OFF through the [LOG/RECEIPT] (or [LOG]) key.

OPERATION: Mode Lock: **REG** (or, **MGR** or "□" with Manager Intervention)

([LOG/RECEIPT] = [LOG])

(1) For Single-drawer Machines



Sign-ON.....to be operated to start the job.

Sign-OFF.....to be operated to end the job.

- NOTES:**
1. As cashier's own secret code, the code used for Sign-ON just after the issuance of cashier reset report is programmed. The secret code will be cleared when the cashier reset report is output.
 2. At the sign-ON or sign-OFF time, only the journal print is performed and none of the receipt is issued by the programming option setting.
 3. The secret code and the cashier code should be entered in two-digit numeric values. (i.e. Enter "01" for the code 1.)

(2) Mode Changes with Signing Operations

When **Signed-ON**:

The Mode Lock position change is allowed within "LOCK", "REG", "MGR", and "□". Changing to any other position will be an error.

When **Signed-OFF**:

The Mode Lock may be turned to any position. Therefore, it is best for the cashier (or all the cashiers on a Multi-drawer Machine) to sign-OFF before the Mode Lock is turned to the "LOCK", "X", "Z", or "SET" position.

NOTE: A program option provides a selection not to print nor issue SIGN ON/SIGN OFF receipt on any signing operation.

9.2 Cashier Key Method ([CLK] Keys)

When the [LOG/RECEIPT] (or [LOG]) key is not installed, [CLK] keys ([CLK 1] to [CLK 8]; max. 8 keys) may be provided on the ECR keyboard.

Sale entries will be possible only when one of the [CLK] keys is depressed (in "REG", "MGR", or "□" mode). When the same [CLK] key is again depressed, the cashier is in Sign-OFF status.

A program option provides a selection to display or not display the cashier code (1 to 8) of the cashier being Sign-ON condition at the "DPT" digit on the 7-segment numeric display of the Operator Display.

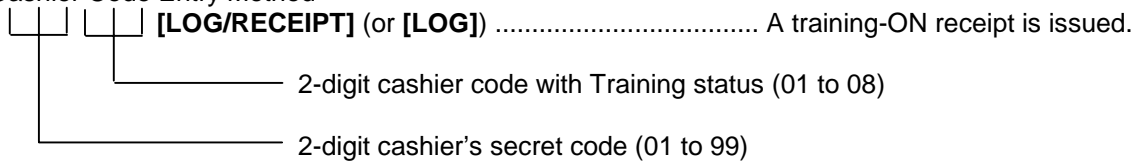
9.3 Training Mode Start and End

When you have newly employed cashiers, you may provide some time for them to train their skills of operating the ECR. You are to start and end the Training Mode. Once entering the Training Mode, a cashier may operate just as ordinary sale entry operations in “REG” and “MGR” modes except Sign-ON/OFF entry and check track operation. The data in the Training Mode are processed into the training cashier memory but not affect any actual sales data in business.

CONDITION Outside a sale, and in Cashier Signed-OFF condition for CASHIER CODE ENTRY Method

OPERATION FOR TRAINING MODES START

■ Cashier Code Entry Method



■ Cashier Key Method

Depress the [CLK] key programmed with Training status A training-ON receipt is not issued.

ENTRIES IN TRAINING MODE

Registering operations are allowed by the trainees:

■ All sale or transaction entry operations are possible in the Training Mode,

- except:
- 1) The drawer will not open.
 - 2) The Consecutive No. on the receipt will not be incremented.
 - 3) Print occurs on receipt but not journal.
 - 4) The Remote Slip Printer prints a slip.
 - 5) When performing a validation print, spaces are printed. (i.e. Printing operation is performed but nothing is printed.)

OPERATION FOR TRAINING MODE END

■ Code Entry Method

0 → [LOG/RECEIPT] (or [LOG]) A training-OFF receipt is issued.

■ Cashier Key Method

Change from the current Cashier Key to another Cashier Key.

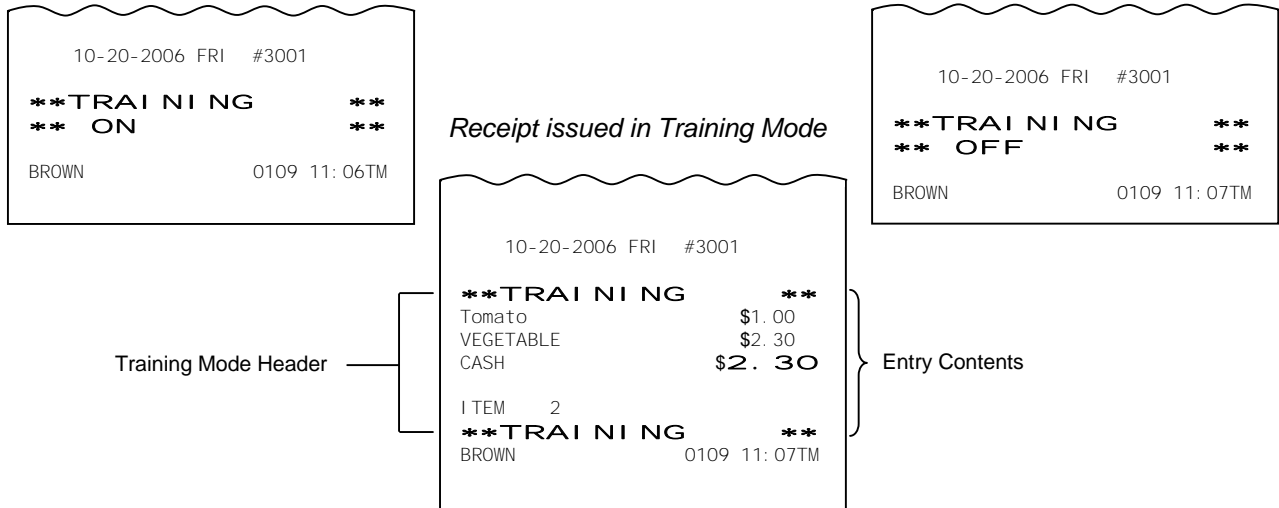
Now the ECR is in a Signed-OFF condition. You may turn the Mode Lock to any position for its corresponding operations. To start sale entries, a Cashier Key to ON status or a cashier's Sign-ON status is again necessary.

NOTES:

1. In the training mode, a cashier who has been programmed with training status in the cashier code and name programming is allowed to perform the operation.
2. The secret code and the training cashier code should be entered in two-digit numeric values. (i.e. Enter "01" for the code 1.)

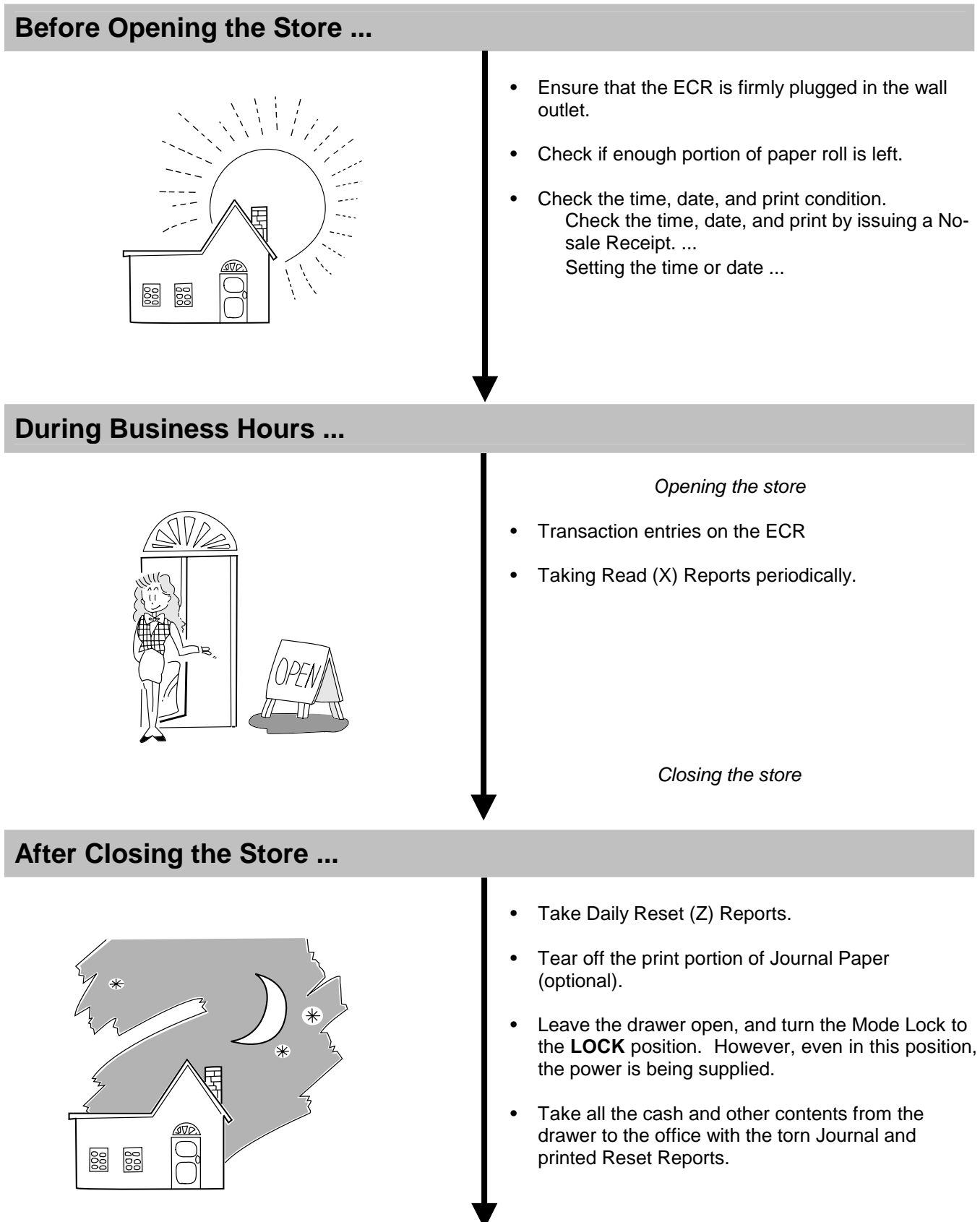
-- Training Mode Receipt Format --

Training Start (Training Sign-ON) Receipt → Training End (Training Sign-OFF) Receipt



10. DAILY OPERATION FLOW

The following shows a typical daily operation flow on the ECR.



11. REGISTERING PROCEDURE AND PRINT FORMAT

WARNING!

When opening the cash drawer, be careful not to let the drawer hit any person.

Before starting sale entries, read through the following instructions:

TRAINING MODE is available:

If you are a beginner in operating this ECR, ask the store manager for practicing in the TRAINING MODE. (See Section 9.3)

During your operations, the following may occur:**• Errors ...**A rectangular box with a black border containing the text "OPERATION ERROR" in a bold, sans-serif font.

(This error message is displayed at the time of operation error.)

A tone continuously sounds and an error message appear in the LCD display of the Operator Display. The keys on the keyboard are locked. In this case, read the Error Message (refer to the ERROR MESSAGE TABLE, Section 5.1), and depress the [C] key to cancel the error status. Then remove the cause of the error and perform the operation again.

• Manager Intervention is required ...A rectangular box with a black border containing the text "MANAGER REQUIRED" in a bold, sans-serif font.

(This error message is displayed when a Manager Intervention is required.)

When the Error Message "MANAGER REQUIRED" (standard setting; programmable) is displayed, it means that the last key or operation requires a Manager Intervention. Depress the [C] key to cancel the error status, and call the manager for intervention.

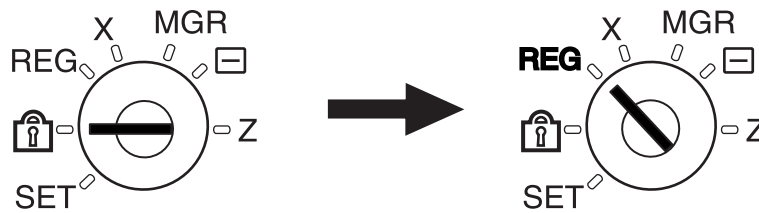
When the manager comes to intervene with an appropriate key, you may perform the operation again. If you are informed which keys and operations will require Manager Intervention, you can call the manager in advance before the error occurs.

• Other errors requiring Manager Intervention ...

When an error occurs and you cannot think of the cause or the same error occurs again, call your manager.

CONDITION SETTING TO START SALE ENTRIES

Mode Lock: Insert the **REG** key and set it to the **REG** position.



Cashier Sign-ON or Cashier Key to ON status:

- If the **[LOG/RECEIPT]** (or **[LOG]**) key is installed, you must sign-ON. (See Section 9.1.)
- If Cashier Keys are installed, you must set your cashier key to the ON status. (See Section 9.2.)

Now you are ready for sale entries.

On the following pages are patterns of entering operations, and receipt or journal print format samples due to the operations. In the operation sequence patterns, “[_____]” indicates an input through the numeric keys, “[]” indicates a depression of the function key, and “---” indicates other registering and/or finalizing operations.

Please note that these are merely sample operations. Especially, the receipt or journal print indications merely show the standard print format. The actual print format and contents may vary on your machine in accordance with the differences in specifications, program selections, etc.

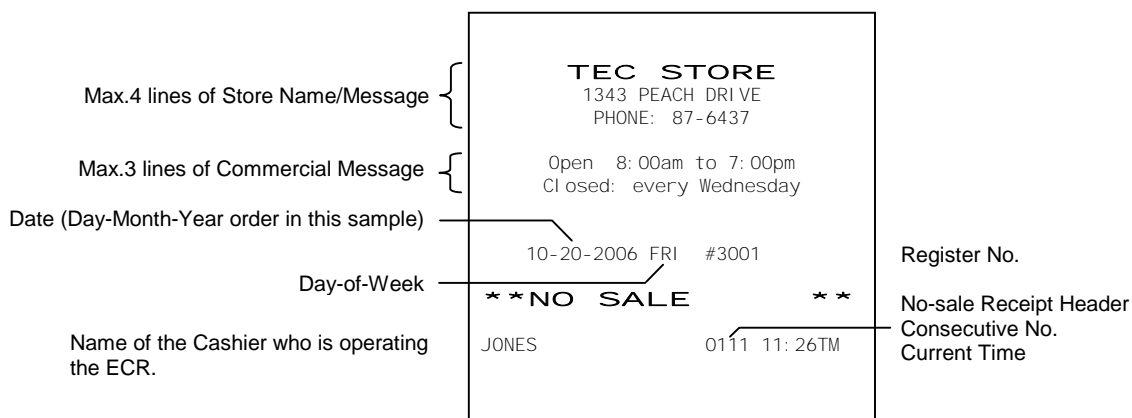
11.1 No-Sale

The no-sale transaction is used to open the cash drawer without relating to any sales, such as for giving change, testing the receipt/journal print condition, etc.

OPERATION (Must be operated outside a sale)

[NS] The drawer opens and a No-sale receipt is issued.

-- Receipt Print Format --



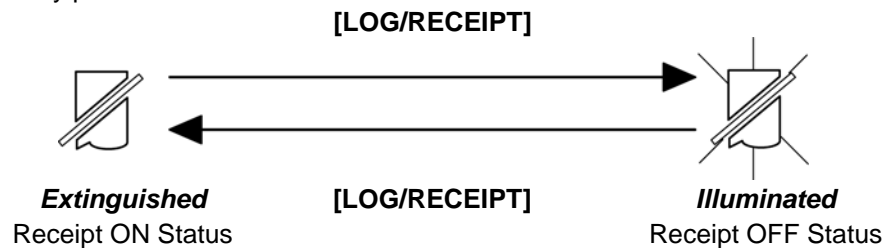
NOTE: The print format samples in this manual are not copies of actual receipts printed on an ECR but are merely indications of print formats. In those format samples, the bold-face characters indicate Double-sized Characters on actual receipts issued by the ECR. Also note that each two-byte character on actual receipts will be printed at the position one-byte space rightward more than in the print format samples in this manual.

11.2 Receipt-Issue/Non-Issue Selection

Receipts are issued or not issued according to the "R OFF" lamp illuminated/extinguished status on the Operator Display panel.

"R OFF" (Receipt OFF) Lamp Status Change Operations ([LOG/RECEIPT] = [RECEIPT]).

Mode Lock may be in any position



NOTES:

1. The "R OFF" lamp status at the starting of a transaction entry decides whether a receipt will be issued for the transaction or not. Switching the Receipt ON/OFF status during a transaction will not be effective.
2. If a transaction entered with the "R OFF" lamp illuminated and finalized but a receipt is required, the **[RECEIPT ISSUE]** (Post-issue Receipt) key can be operated to issue a receipt.
3. Simply depress the **[LOG/RECEIPT]** key without a numeric entry. If the key is depressed with a prior numeric entry in REG mode, it may turn out to be a Sign ON or Sign OFF operation (in case of Cashier Code Entry Method).
4. Receipt-issue or non-issue cannot be selected after a non-add number print.
5. Even when the ECR is in the Receipt-OFF mode, a receipt after taking a reset report is issued.

11.3 Receipt Post-Issue

After finalizing a sale, the **[RECEIPT ISSUE]** key depression leads to an issuance of an itemized receipt for previous entry. Post-issue receipt is issued only once.

OPERATION (Must be operated outside a sale)

(A sale is finalized.) → **[RECEIPT ISSUE]**

Programmable options:

- Post-issue receipt is available only when the sale has been finalized with Receipt-OFF mode.
 - Available regardless of Receipt-ON/OFF mode (in this case two receipts may be obtained for one sale.)
-
- Post-issue receipt is itemized receipt for a sale of maximum 30 lines. Exceeding 30 lines, the post-issue receipt is total-only receipt.
 - Post-issue receipt is always total-only receipt regardless of the number of lines of a sale.

NOTES:

1. The post-issue receipt content will not be printed on the Remote Slip Printer.
2. The post-issue receipt is not available for Paid-Out transactions.
3. The post-issue receipt operation is available for the Charge Posting transaction (sale with previous balance). However, when the Charge Posting transaction is finalized by the **[PO]** key, the post-issue receipt operation cannot be performed.
4. The post-issue receipt operation after the received-on-account transaction is possible by the program option, however, the itemized type post-issue receipt operation is not possible.
5. The validation print operation is not possible after performing the post-issue receipt operation.

-- Ordinary Receipt --

10-20-2006 FRI #3001

VEGETABLE \$8.60
 2x 1.00@

Tomato \$2.00
 SUBTL \$10.60
TOTAL \$10.60
 CATEND \$11.00
 CHANGE \$0.40

ITEM 3
 JONES 0316 17:58TM

-- Post-issue Receipt --

Itemized Type

10-20-2006 FRI #3001

****COPY****

VEGETABLE \$8.60
 2x 1.00@

Tomato \$2.00
 SUBTL \$10.60
TOTAL \$10.60
 CATEND \$11.00
 CHANGE \$0.40

ITEM 3
 JONES 0316 17:58TM

Total-only Type

10-20-2006 FRI #3001

TOTAL **\$10.60**
 JONES 0316 17:58TM

This line is printed only when a post-issue receipt is issued after the Ordinary Receipt is issued, or the second and subsequent post-issue receipts are issued.

11.4 Department Entry

Each department is pre-programmed as the "PRESET" type (with a price programmed) or "OPEN" type (with no price programmed). Perform an operation depending on the type selected.

OPERATION

Open Department Type

- **[Price] [Open DEPT]**
- **[Open-Dept Code] [DP#] [Price] [AMT]**

Example:

Department	Department Name	Department Type	Preset Price
DEPT 1	DP01	Open	---

100 [DEPT 1] → [AT/TL]

-- Receipt Print Format --

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
DP01	\$1.00
CASH	\$1.00
ITEM 1	
JONES	0110 10:30TM

Preset Department Type

- **[Preset DEPT]**
- **[Dept Code] [DP#]**

Example:

Department	Department Name	Department Type	Preset Price
DEPT 9	DP09	Preset	\$1.50

[DEPT 9] → [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
DP09	\$1.50
CASH	\$1.50
ITEM 1	
JONES	0111 10:32TM

Preset-price Open through Preset Department Type

- **[OPEN] (or [PR OPEN]) [Price] [Preset DEPT]**
- **[OPEN] (or [PR OPEN]) [Dept Code] [DP#] [Price] [AMT]**

Example:

Department	Department Name	Department Type	Preset Price
DEPT 9	DP09	Preset	\$1.50

[OPEN] 100 [DEPT 9] → [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
DP09	\$1.00
CASH	\$1.00
ITEM 1	
JONES	0112 10:35TM

NOTES:

1. A maximum of 7-digit price can be programmed.
2. For the preset-price open through preset department type, depressing the **[OPEN]** (or **[PR OPEN]**) key then the **[Preset DEPT]** key without entering its price may cause an error.

11.5 PLU Entry

Each PLU is preprogrammed as the "PRESET" type (with a price preset) or "OPEN" type (with no price preset). Perform operation depending on the type selected.

OPERATION

Open PLU Type

- [Open-PLU Code] **[PLU]** [Price] **[AMT]**
- [Price] **[PLU Preset-Code Key]** of Preset-PLU

Example:

PLU Code	PLU Name	PLU Type	Preset Price
50	Tomato	Open	---

50 **[PLU]** 100 **[AMT]** → **[AT/TL]**

-- Receipt Print Format --

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
Tomato	\$1.00
CASH	\$1.00
ITEM 1	
JONES	0113 10:37TM

Preset PLU Type

- [Preset-PLU Code] **[PLU]**
- **[PLU Preset-Code Key]** of Preset-PLU

Example:

PLU Code	PLU Name	PLU Type	Preset Price
30	Drink Small-B	Preset	\$1.50

30 **[PLU]** → **[AT/TL]**

-- Receipt Print Format --

10-20-2006 FRI #3001	
Drink Small-B	\$1.50
CASH	\$1.50
ITEM 1	
JONES	0114 10:39TM

Preset-price Open Entry through Preset PLU Type

- **[OPEN]** (or **[PR OPEN]**) [Preset-PLU Code] **[PLU]** [Price] **[AMT]**
- **[OPEN]** (or **[PR OPEN]**) [Price] **[PLU Preset-Code Key]**

Example:

PLU Code	PLU Name	PLU Type	Preset Price
30	Drink Small-B	Preset	\$1.50

[OPEN] 30 **[PLU]** 120 **[AMT]** → **[AT/TL]**

-- Receipt Print Format --

10-20-2006 FRI #3001	
Drink Small-B	\$1.20
CASH	\$1.20
ITEM 1	
JONES	0115 10:40TM

NOTES:

1. A maximum of 4-digit PLU code can be entered. (1 to 9999)
2. A maximum of 7-digit price can be programmed.
3. When the linked department is negative, a negative PLU entry is performed.

11.6 Quantity Extension (Multiplication) for DEPTS/PLUs

(1) Department Multiplication

OPERATION

Open Department Type

- |Quantity| [|@/FOR|] |Price| [Open DEPT]
- |Quantity| [|@/FOR|] |Open-Dept Code| [DP#] |Price| [AMT]

Example:

Department	Dept. Name	Dept. Type	Preset Price	Quantity
DEPT 3	DP03	Open	---	5

5 [|@/FOR|] 300 [DEPT 3] —————▶ [AT/TL]

-- Receipt Print Format --

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
5x 3.00@	
DP03	\$15.00
CASH	\$15.00
ITEM 5	
JONES	0116 10:42TM

Preset Department Type

- |Quantity| [|@/FOR|] [Preset DEPT]
- |Quantity| [|@/FOR|] |Preset-Dept Code| [DP#]

Example:

Department	Dept. Name	Dept. Type	Preset Price	Quantity
DEPT 4	DP04	Preset	\$1.50	6

6 [|@/FOR|] [DEPT 4] —————▶ [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
6x 1.50@	
DP04	\$9.00
CASH	\$9.00
ITEM 6	
JONES	0117 10:45TM

Preset-price Open Type

- |Quantity| [|@/FOR|] [OPEN] (or [PR OPEN]) |Price| [Preset DEPT]
- |Quantity| [|@/FOR|] [OPEN] (or [PR OPEN]) |Preset-Dept Code| [DP#] |Price| [AMT]

Example:

Department	Dept. Name	Dept. Type	Preset Price	Quantity
DEPT 4	DP04	Preset	\$1.50	4

4 [|@/FOR|] [OPEN] 120 [DEPT 4] —————▶ [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
4x 1.20@	
DP04	\$4.80
CASH	\$4.80
ITEM 4	
JONES	0118 10:47TM

(2) PLU Multiplication

OPERATION

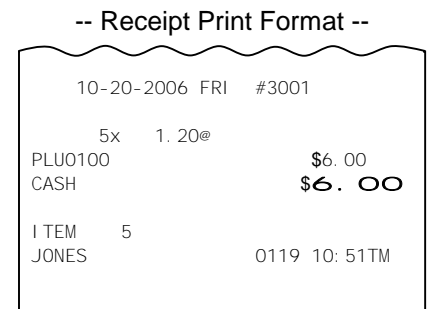
Open PLU Type

- |Open-PLU Code| **[PLU]** |Quantity| **[@/FOR]** |Price| **[AMT]**
- |Quantity| **[@/FOR]** |Price| **[PLU Preset-Code Key]** of Open-PLU

Example:

PLU Code	PLU Name	PLU Type	Preset Price	Quantity
100	PLU100	Open	---	5

100 **[PLU]** 5 **[@/FOR]** 120 **[AMT]** → **[AT/TL]**



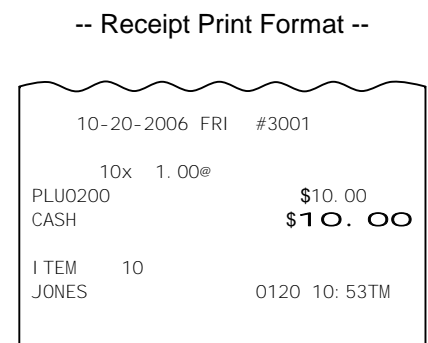
Preset PLU Type

- |Quantity| **[@/FOR]** |Preset-PLU Code| **[PLU]**
- |Quantity| **[@/FOR]** **[PLU Preset-Code Key]** of Preset-PLU

Example:

PLU Code	PLU Name	PLU Type	Preset Price	Quantity
200	PLU200	Preset	\$1.00	10

10 **[@/FOR]** 200 **[PLU]** → **[AT/TL]**



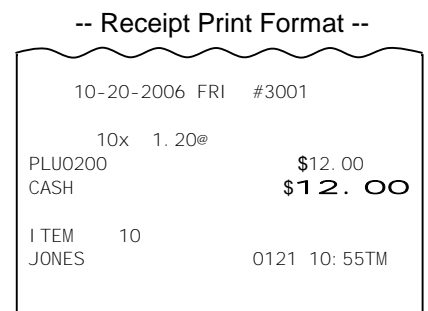
Preset-price Open Type

- **[OPEN]** (or **[PR OPEN]**) |Preset-PLU Code| **[PLU]** |Quantity| **[@/FOR]** |Price| **[AMT]**
- |Quantity| **[@/FOR]** **[OPEN]** (or **[PR OPEN]**) |Price| **[PLU Preset-Code Key]** of Preset-PLU

Example:

PLU Code	PLU Name	PLU Type	Preset Price	Quantity
200	PLU200	Preset	\$1.00	10

[OPEN] 200 **[PLU]** 10 **[@/FOR]** 120 **[AMT]** → **[AT/TL]**



NOTES:

1. Quantity Max. 3 integral + 3 decimal digits (0.001 to 999.999: Use the [.] key for entering decimal digits.)
 Price (Unit Price) ... Max. 6 digits
 Product Must not exceed 8 digits.
2. When the Quantity is 1-digit integer (1 to 9) followed by a Code-preset Department/PLU key with a price preset, the **[@/FOR]** key is omissible.
3. The product obtained by multiplication cannot be repeated.
4. The decimal portion of the Quantity entry itself is processed down to the two digits below the decimal point. The fraction rounding in this case is fixed to ROUND OFF.
5. You can select the rounding process of the fractions of the product (result of multiplication) by a program option: ROUND OFF (initial setting), ROUND UP, or ROUND DOWN.
6. The Quantity Extension operation is not possible when the quantity is 0.

11.7 Repeat Entry

To repeat the same item of the last entry, simply depress the last key of the department or PLU entry sequence or depress the **[RPT]** key.

(1) Department Repeat

OPERATION

Open Department Type

- **[Price] [Open DEPT] [Same DEPT]** (or **[RPT]**)
- **[Open-Dept Code] [DP#] |Price| [AMT] [AMT]** (or **[RPT]**)

Example:

Department	Department Name	Department Type	Preset Price
DEPT 1	DP01	Open	---

100 **[DEPT 1] [DEPT 1] [DEPT 1]** → **[AT/TL]**

or

100 **[DEPT 1] [RPT] [RPT]** → **[AT/TL]**

-- Receipt Print Format --

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
DP01	\$1.00
DP01	\$1.00
DP01	\$1.00
CASH	\$3.00
ITEM 3	
JONES	0122 10:57TM

Preset Department Type

- **[Preset DEPT] [Same DEPT]** (or **[RPT]**)
- **[Preset-Dept Code] [DP#] [DP#]** (or **[RPT]**)

Example:

Department	Department Name	Department Type	Preset Price
DEPT 9	DP09	Preset	\$1.50

[DEPT 9] [DEPT 9] [DEPT 9] → **[AT/TL]**

or

[DEPT 9] [RPT] [RPT] → **[AT/TL]**

-- Receipt Print Format --

10-20-2006 FRI #3001	
DP09	\$1.50
DP09	\$1.50
DP09	\$1.50
CASH	\$4.50
ITEM 3	
JONES	0123 10:59TM

Preset-price Open Repeat

- **[OPEN]** (or **[PR OPEN]**) **|Price| [Preset DEPT] [RPT]**
- **[OPEN]** (or **[PR OPEN]**) **|Preset-Dept Code| [DP#] |Price| [AMT] [RPT]**

Example:

Department	Department Name	Department Type	Preset Price
DEPT 9	DP09	Preset	\$1.50

[OPEN] 120 [DEPT 9] [RPT] [RPT] → **[AT/TL]**

-- Receipt Print Format --

10-20-2006 FRI #3001	
DP09	\$1.20
DP09	\$1.20
DP09	\$1.20
CASH	\$3.60
ITEM 3	
JONES	0124 11:01TM

(2) PLU Repeat

OPERATION

Open PLU Type

- |Open-PLU Code| [PLU] |Price| [AMT] [AMT] (or [RPT])
- |Price| [PLU Preset-Code Key] [Same key] (or [RPT])

Example:

PLU Code	PLU Name	PLU Type	Preset Price
50	Tomato	Open	---

50 [PLU] 100 [AMT] [AMT] [AMT] → [AT/TL]
 or
 50 [PLU] 100 [AMT] [RPT] [RPT] → [AT/TL]

-- Receipt Print Format --

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
Tomato	\$1.00
Tomato	\$1.00
Tomato	\$1.00
CASH	\$3.00
ITEM 3	
JONES	0125 11:03TM

Preset PLU Type

- |Preset-PLU Code| [PLU] [Same key] (or [RPT])
- [PLU Preset-Code Key] [Same key] (or [RPT])

Example:

PLU Code	PLU Name	PLU Type	Preset Price
30	Drink Small-B	Preset	\$1.50

30 [PLU] [PLU] [PLU] → [AT/TL]
 or
 30 [PLU] [RPT] [RPT] → [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
Drink Small-B	\$1.50
Drink Small-B	\$1.50
Drink Small-B	\$1.50
CASH	\$4.50
ITEM 3	
JONES	0126 11:05TM

Preset-price Open Repeat

- [OPEN] (or [PR OPEN]) |Preset-PLU Code| [PLU] |Price| [AMT] [RPT]
- [OPEN] (or [PR OPEN]) |Price| [PLU Preset-Code Key] [RPT]

Example:

PLU Code	PLU Name	PLU Type	Preset Price
30	Drink Small-B	Preset	\$1.50

[OPEN] 30 [PLU] 100 [AMT] [RPT] [RPT] → [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
Drink Small-B	\$1.00
Drink Small-B	\$1.00
Drink Small-B	\$1.00
CASH	\$3.00
ITEM 3	
JONES	0127 11:07TM

NOTES:

1. If the first item of those repeated is modified with the [LC OPEN] or [TX/M] key, the modified status will be effective through the last item of the repeated.
2. Please note that the Preset-price Open Repeat using a [Preset DEPT] key or a [PLU Preset-Code Key] can be repeated by the [RPT] key only.
3. A negative Department or negative PLU item cannot be repeated.
4. The Repeat entry is not possible after performing the Non-add Number Print ([#] key operation).
5. The Repeat entry is not possible after depressing the [RTN MDSE], [STR CPN], or [VOID] key.

11.8 Single-Item Department or Single-Item PLU Entry

If a department (or PLU) is programmed with Single-item status, the department (or PLU) entry sequence will immediately finalize the sale as cash sale when operated outside a sale.

OPERATION

Same as | DEPARTMENT ENTRY |
 | PLU ENTRY |
 | QUANTITY EXTENSION |

Example:

Department	Dept. Name	Dept. Type	Preset Price	Status
DEPT 15	DP15	Preset	\$2.10	Single Item

[DEPT 15]

-- Single-item Receipt Print Format --

```

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Closed: every Wednesday

10-20-2006 FRI #3001

DP15                $2.10
CASH                $2.10

ITEM 1
JONES                0165 12:30TM
    
```

NOTES:

1. If operated inside a sale, it functions just as an ordinary itemized department or PLU.
2. For the validation print after the Single-Item Department (or PLU) entry, the name and the amount of the department (or PLU) are printed.

11.9 HASH Department Entry, HASH PLU Entry

This operation is used to enter items which do not directly become sales for the store, such as lottery, postage, gift wrapping fee, size adjustment fee, utility (payment of electricity and gas), and donation.

OPERATION

Same as DEPARTMENT ENTRY sequence using the Department Key which is programmed as a HASH department. When a PLU is used for this purpose, the PLU must be programmed to link to a department with HASH status.

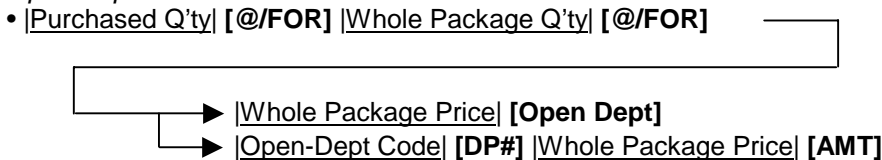
11.10 Split Package Pricing (“Q’ty” = Quantity ... in the patterns listed below)

This operation is used for entering individual item of whole package.
 For example, one individual item of whole package (\$1.00/3 pcs.) can be entered by this operation.
 This operation can be performed for PLUs of which whole package quantity is preset.

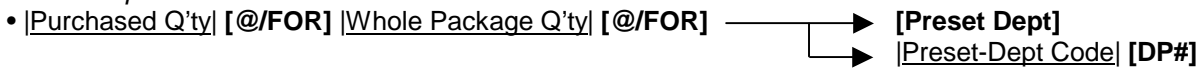
OPERATION

(1) Department

Open Department

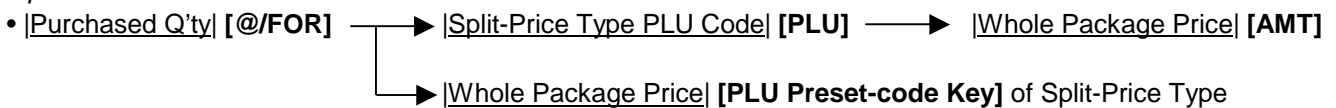


Preset Department

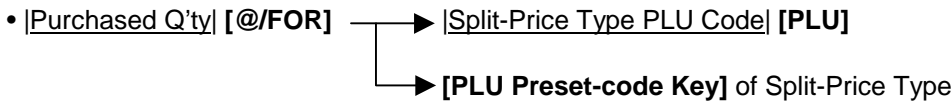


(2) PLU

Open PLU



Preset PLU



Example: When two oranges priced at \$1 per three pieces are bought (PLU code 150 as shown below), the fraction of the split package pricing operation is rounded in the Round Up Product method.

PLU Code	PLU Name	PLU Type	Whole Package Price	Whole Package Qty
150	Orange	Preset	\$1.00	3

2 **[@/FOR]** 150 **[PLU]**



NOTES:

1. Purchased Quantity max.3 digits integral only
Whole Package Quantity max.3 digits integral only
Whole Package Price max.6 digits
2. One of two fraction rounding methods can be selected for the Split Package Pricing calculations ---
Round Up PRODUCT (initial setting) or Round Up UNIT PRICE.

When two items priced at \$1 per three are bought as shown in the example on the previous page;

1) In case of Round Up UNIT PRICE

$$1 \div 3 = 0.33333..... \rightarrow 0.34$$

$$0.34 \times 2 = 0.68$$

2) In case of Round Up PRODUCT

$$(100 \div 3) \times 2 = 0.66666..... \rightarrow 0.67$$

This optional method is applied for the quantity less than whole package quantity.

Accordingly, when five oranges are bought, the three out of five are priced at \$1 (equal to the whole package price) and the price of the remaining two is calculated according to the optional method.

If the Round Up UNIT PRICE method is used, the price will be \$1.68.

If the Round Up PRODUCT method is used, the price will be \$1.67.

11.11 Item Correct

The Item Correct operation is used for deleting an item which was just entered.

OPERATION

- DEPARTMENT ENTRY
- PLU ENTRY
- REPEAT ENTRY
- QUANTITY EXTENSION
- RETURNED MERCHANDISE
- AMOUNT DISCOUNT
- PERCENT CHARGE/DISCOUNT
- STORE COUPON
- VENDOR COUPON
- Previous Balance Entry
- RECEIVED-ON-ACCOUNT Item
- PAID-OUT Item

→ **[ITEM CORR]**

Example: When the **[DEPT4]** key instead of the **[DEPT3]** key is incorrectly depressed in the following transaction, the Item Correct operation is performed for deleting the entry of the **[DEPT4]** key.

Department	Department Name	Purchased Qty	Price
DEPT 1	DP01	3	\$1.20
DEPT 3	DP03	1	\$2.00

3 **[@/FOR]** 120 **[DEPT1]**
 200 **[DEPT4]**
[ITEM CORR]

-- Journal Print Format --

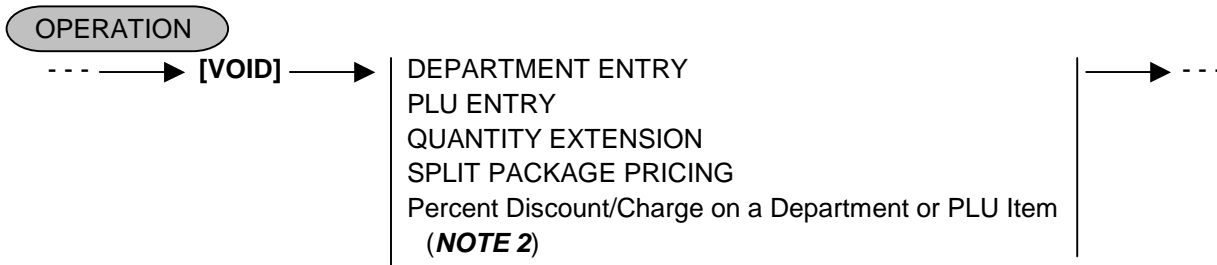
DP04 CORR ↑	\$2.00
----------------	--------

NOTES:

1. When **[ITEM CORR]** is depressed after a Repeat entry, only the last item of those repeated will be deleted.
2. When **[ITEM CORR]** is depressed after a Quantity Extension entry, the entire product (result of multiplication) will be deleted.
3. When the Item Correct operation is performed, "CORR ↑" is printed on the journal, but the deleted item is not printed on the receipt.
4. The Validation Print operation is possible after the Item Correct operation.
5. The Item Correct operation is not possible after the Validation Print operation.

11.12 Void

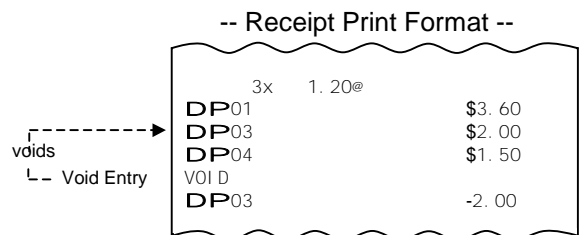
The Void operation is used to delete an item already entered before the last item within the current sale. Such items cannot be deleted by the [ITEM CORR] key any longer.



Example: After DEPT4 is entered in the following transaction, the Void operation is performed for canceling the entry of DEPT3.

Department	Department Name	Purchased Qty	Price
DEPT 1	DP01	3	\$1.20
DEPT 3	DP03	1	\$2.00
DEPT 4	DP04	1	\$1.50

3 [@/FOR] 120 [DEPT 1]
 200 [DEPT 3]
 150 [DEPT 4]
 [VOID]
 200 [DEPT 3]

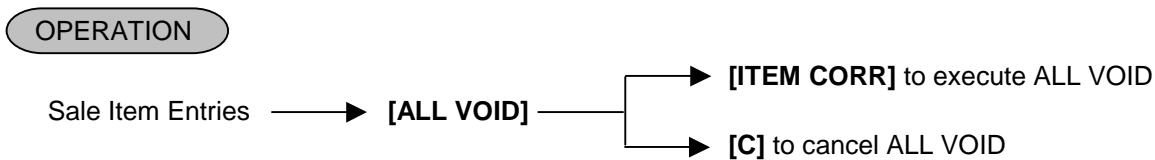


NOTES:

1. An amount exceeding the sale total cannot be entered unless the "Credit Balance" option is selected.
2. When an item previously entered with a percent discount or percent charge is cancelled, the item can be voided with the percent discount/charge by attaching the [VOID] key to the same entry procedure as previous entry.

11.13 All Void

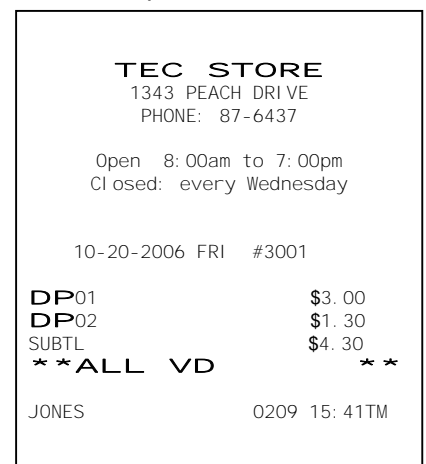
When the current transaction being entered is found to be canceled before finalizing it, All Void can be operated to delete all the items entered in the transaction.



NOTES:

1. All Void is possible if the current transaction contains 20 items or less.
2. All Void is also possible to delete a charge posting sale of PB Entry.
3. The All Void cannot be operated after an [EX] or [FS TL TEND] key entry or during a Received-on-Account or Paid-Out transaction.

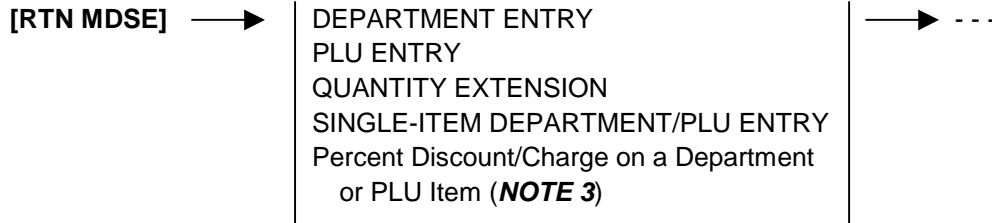
-- Receipt Print Format --



11.14 Returned Merchandise

The Returned Merchandise operation is used for returning an item which was once purchased.

OPERATION



Example:

Item to be returned	Name	Price
DEPT 1	DP02	\$1.45
DEPT 3	DP03	\$1.00

[RTN MDSE]
 145 [DEPT 1]
 [RTN MDSE]
 100 [DEPT 3]
 [AT/TL]

-- Receipt Print Format --

10-20-2006 FRI #3001	
RTN	
DP01	-1.45
RTN	
DP03	-1.00
CASH	-2.45
ITEM -2	
JONES	0211 15:45TM

NOTES:

1. This operation cannot be performed for Negative Departments/PLUs.
2. The Repeat entry is not possible in this operation.
3. When an item once purchased with a percent discount or percent charge is returned, the item can be returned with the percent discount/charge by attaching the [RTN MDSE] key to the same entry procedure as purchase.

11.15 Subtotal (Sale Total Pre-taxed) Read

OPERATION



The sale total (pre-taxed) of the items so far entered is displayed (and printed if so programmed), but the sale is not finalized. Additional item entries are allowed, if any.

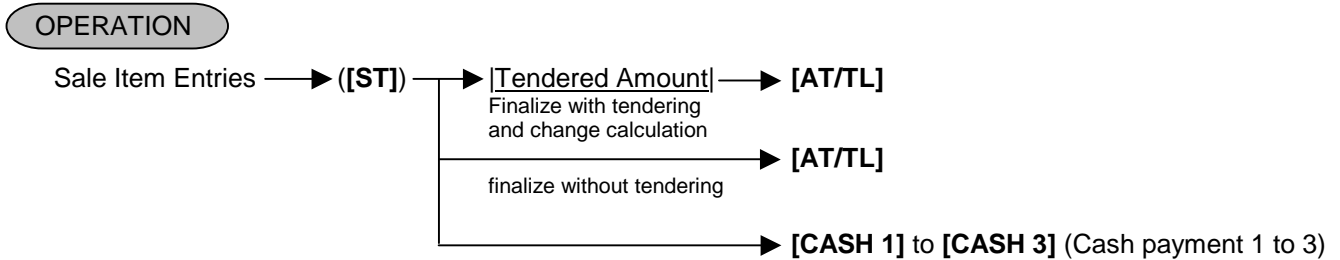
-- Receipt Print Format --

SUBTL	\$6.00
-------	--------

11.16 Finalizing a Sale

11.16.1 Cash Tender

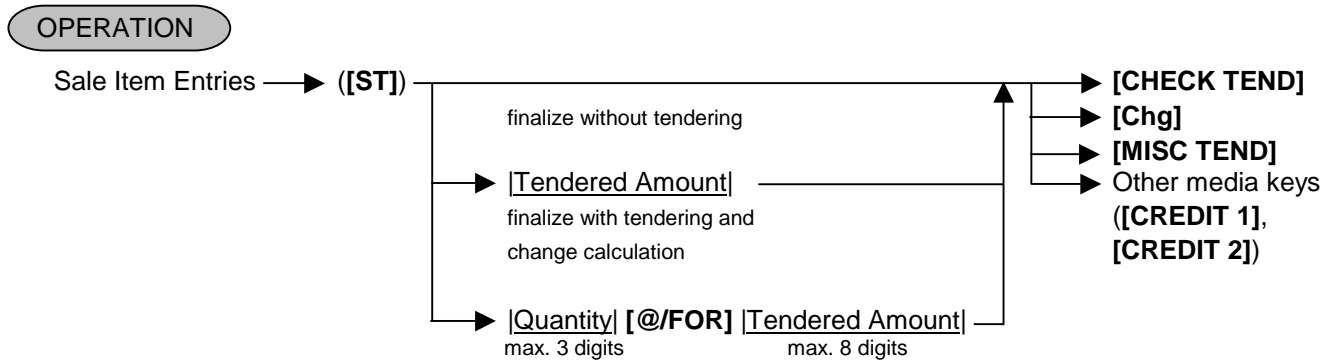
A tendered amount entry is performed here.



NOTE: Depression of the **[CASH 1]** to **[CASH 3]** keys on which a cash amount has not been preset causes an error.

11.16.2 Media Tender

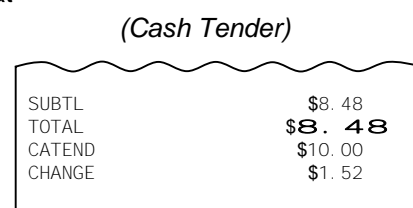
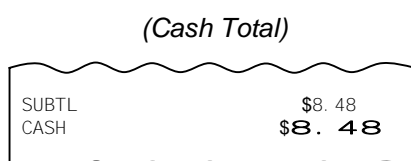
A sale finalization operation with each media key is performed here.



NOTES:

- ECR works in two different ways according to a tendered amount.
 - Tendered amount is equal to sale total or more.
The CG lamp illuminates and the change due is displayed. Also, the drawer opens and a receipt is issued. Sale total, tendered amount, change due, (and tax) are printed.
 - Tendered amount is less than sale total. (short tendering)
The ST lamp illuminates and the balance due is displayed. Sale total, tendered amount, (and tax) are printed, however, the sale total and tax are printed at the first time of tendering only.
- The above operation causes an error when the declaration key or the point key is depressed.
- The above operation causes an error when a non-cash media key has been programmed with Total-only status. Also a negative balance sale causes an error.
- When the **[ST]** key entry compulsion has been set, the above operation should be performed after the **[ST]** key.
- When the media keys are programmed with the validation-compulsory status, the drawer opens after the Validation Print operation.

-- Receipt Print Format --

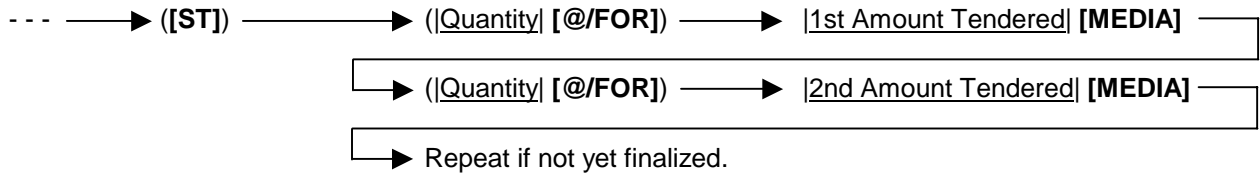


11.17 Multi-Tendering

Short-tendering repeated multiple times by the same media (allowed only when the media key is programmed to allow short-tendering).

OPERATION

Example (1)

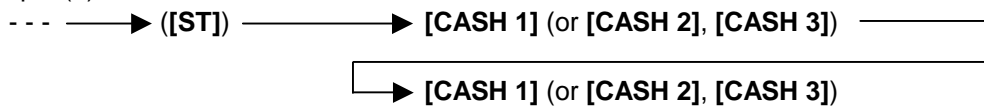


-- Receipt Print Format --

SUBTL	\$8. 48
TOTAL	\$8. 48
CATEND	\$5. 00
CATEND	\$5. 00
CHANGE	\$1. 52

Multi-tendering by [AT/TL] key
Change due, as the result of the 2nd amount tendered

Example (2)

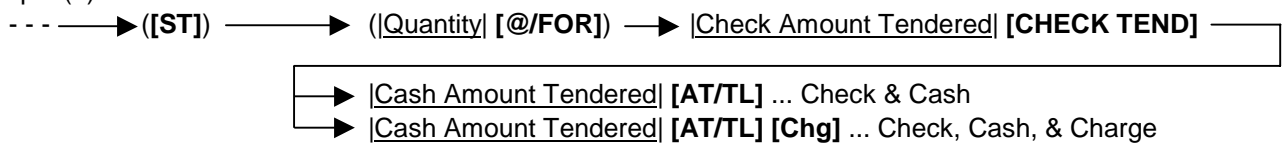


11.18 Split Tendering

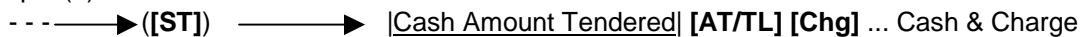
Short-tendering repeated multiple times by the different media keys (allowed only when the media keys are programmed to allow short-tendering).

OPERATION

Example (1)



Example (2)



NOTES:

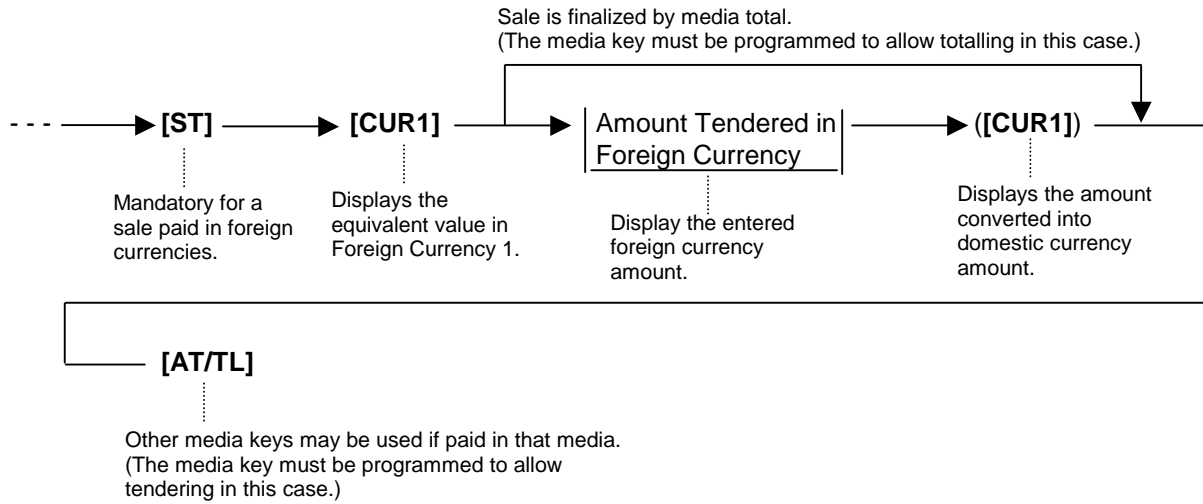
1. In both MULTI-TENDERING and SPLIT TENDERING operations, the sale is finalized and a receipt is issued on reaching the sale total amount.
2. When the [ST] key entry compulsion has been set, the above operation should be performed after the [ST] key.
3. Multi-Tendering and Split Tendering operations are possible during a Received-on Account entry.
4. Multiplication of tendered amount entry using the media key is possible, however, that using the [AT/TL] (or [CASH 1] to [CASH 3]) key is not possible.
5. Depression of the [CASH 1] to [CASH 3] keys on which a cash amount has not been preset causes an error.
6. When the media keys are programmed with the validation-compulsory status, the drawer opens after the Validation Print operation.

-- Receipt Print Format --

SUBTL	\$8. 48
TOTAL	\$8. 48
CHECK	\$5. 00
CASH	\$3. 48

11.19 Sale Paid in Foreign Currencies

OPERATION



NOTES:

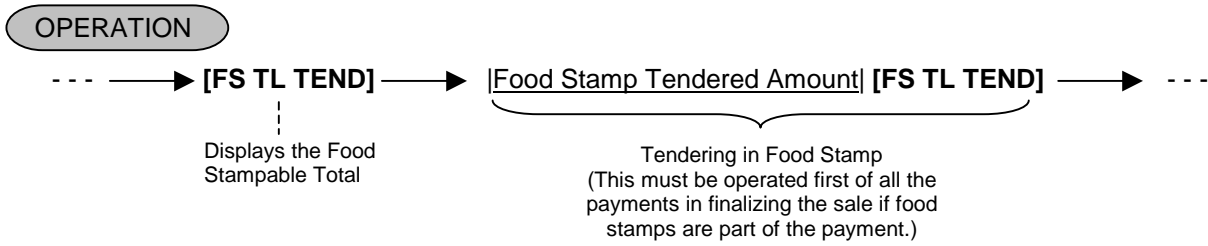
1. The **[CUR 2]** to **[CUR 5]** keys operate the same as **[CUR 1]**, except that each of these keys has its own exchange rate programmed corresponding to each foreign currency.
2. The fraction process method at the exchange is fixed to Round OFF.
3. The foreign currency keys cannot be used to finalize Received-on-Account payments, Paid-out items, or charge posting (sale with previous balance).
4. When a tendering by a foreign currency occurs during a short-tendered condition, the **[ST]** key will not be mandatory.
5. When the **[AT/TL]** key or other media key has been programmed as "Total-only" key, the entry of amount tendered in foreign currency causes an error.
6. When an amount limit has been programmed, the foreign currency amount converted into a domestic currency is checked.
7. To exchange the domestic currency amount to the foreign currency one, multiply the amount by the exchange rate.
8. The sale finalization using the **[FS TL TEND]** key is not possible.

-- Receipt Print Format --

Optional Print { Amount Tendered in CUR1
CUR1 Exchange Rate

SUBTL	\$8. 48
TOTAL	\$8. 48
CUR1	9. 50*
	1. 0914*
CATEND	\$9. 31
CHANGE	\$0. 83

11.20 Food Stampable Total Read, Food Stamp Tendering



... When the Food Stamp tendered amount is less than the sale total, the sale is not finalized with the balance still due displayed. Then it can be finalized with cash or other media total or tendering operations.

Entire Sale Total	TOTAL	\$12.72
Food Stampable Total	FS/TL	\$12.72
Food Stamp Tendered Amount	F-STMP	\$15.00
Change in Cash	CHANGE	\$0.28
Change in Food Stamp	FS CHG	\$2.00

- NOTES:**
1. Food Stamp feature is unavailable for the area where inclusive tax feature is used.
 2. Any of the following features can be selected by the program option.
 - 1) Normal
The amount including the food stampable tax can be paid by Food Stamp.
 - 2) Illinois
Only the amount paid by Food Stamp is exempted from the food stampable tax.
 - 3) New Jersey
All food stampable tax is exempted regardless of the amount of Food Stamp.
 3. Change in unit of \$ is paid by Food Stamp, and ¢ is paid by cash.

11.21 Tax Calculation and Print

Your ECR has been programmed with proper tax tables (tax breaks and/or tax rates). Each department or PLU has been programmed with proper tax status, i.e. taxable or non-taxable status of each Tax (of maximum 4 taxes of Tax 1 to Tax 4). On finalizing a sale, the taxes due are automatically calculated and printed on the receipt, and thus added to the sale. Whether all taxes (Tax 1 to Tax 4) are consolidated into one line print or individually printed in separate lines is a program option.

-- Receipt Print Format --

Example of Consolidated Print Line

SUBTL	\$15.00
TAX	\$0.85
CASH	\$15.85

Example of Separate Print Lines

SUBTL	\$15.00
TAX1	\$0.60
TAX2	\$0.25
CASH	\$15.85

11.22 Taxable Total (Sale Total With Taxes) Read

OPERATION



The sale total including taxes due of the items so far entered is displayed (and printed if so programmed), but the sale is not finalized. Additional item entries are allowed, if any.

-- Receipt Print Format --

TXBL TL	\$22. 13
---------	----------

11.23 Tax Exemption

OPERATION

Selective Tax Exemption

- Examples) [TX1/M] [EX] → Sale Finalization ... to exempt from Tax 1 only
 [TX1/M] [TX2/M] [EX] → Sale Finalization ... to exempt from Tax 1 & Tax 2
 [TX1/M] [TX2/M] [TX3/M] [EX] → Sale Finalization ... to exempt from Tax 1, Tax 2, & Tax 3

All Tax Exemption

- [EX] → Sale Finalization } to exempt from all taxes
 [TX1/M] [TX2/M] [TX3/M] [TX4/M] [EX] → Sale Finalization }

-- Receipt Print Format --

Pre-taxed amount of the sale portion subject to Tax1
 Pre-taxed amount of the sale portion subject to Tax2

TAX1EX	\$1. 50
TAX2EX	\$6. 00

NOTES:

1. On depressing [EX], the sale total including the tax(es) not to be exempted is displayed and pre-taxed amount of the sale portion subject to the tax exemption is printed.
2. After the Tax Exemption operation, only the Sale Finalization is possible.
3. The Tax Exemption operation is not possible for inclusive taxes.
4. Whether Canada tax is subject to the tax exemption is judged even after the [EX] key operation.

11.24 Tax Status or Food Stamp Status Modification

Depress [TX/M] (or [TX1/M], [TX2/M], [TX3/M], [TX4/M]) prior to or any time during the entry sequence of the required Department, PLU, or any other tax-status-programmable item ([DOLL DISC], [%-], [%+], [STR CPN], [VND CPN]). The taxable status is reversed to non-taxable, and vice versa. The [FS/M] key operates the same to reverse from the Food Stampable status to non-stampable, and vice versa, of the required item.

11.25 Manual Tax Entry (where irregular tax amount addition is applied)

OPERATION

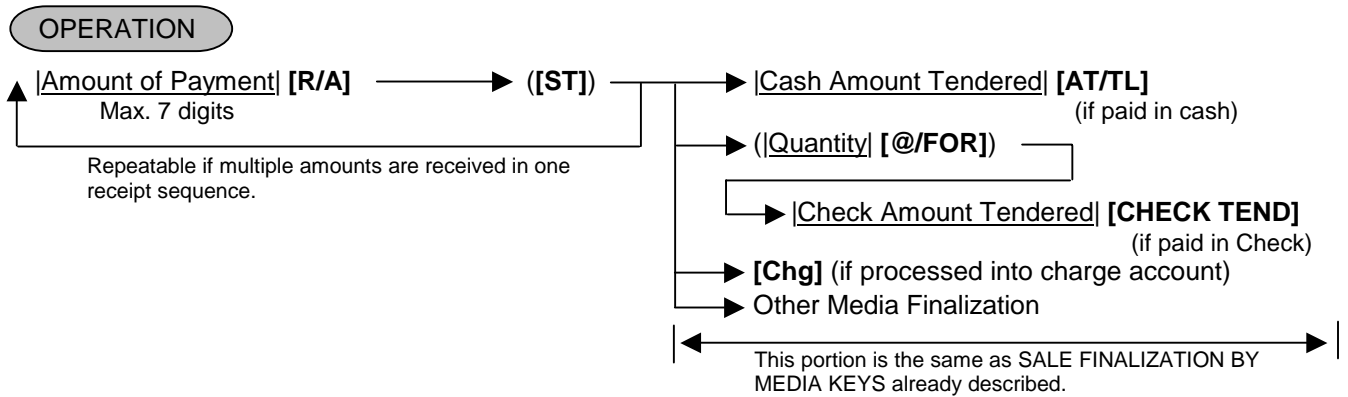


-- Receipt Print Format --

TAX5	\$0. 50
------	---------

11.26 Received-on-Account

A received-on-account transaction is used to identify money which is in the drawer but not relating to a sale.



NOTES:

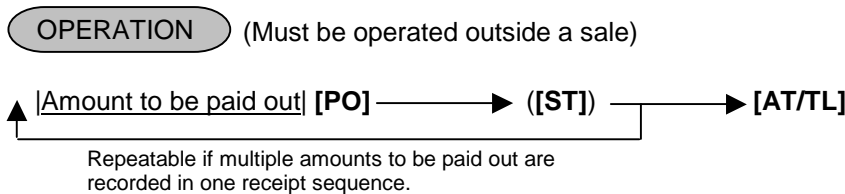
1. The media keys used for this operation must be programmed to allow received-on-account entries.
2. MULTI-TENDERING and SPLIT-TENDERING (already described) are also applied to the finalization of received-on-account payments.
3. The All Void operation is not possible during a Received-on-Account transaction.
4. When the media keys to be used for sale finalization are programmed with the validation-compulsory status, the drawer opens after the Validation Print operation.

-- Receipt Print Format --

R/A	\$5.00
R/A	\$3.00
SUBTL	\$8.00
CASH	\$8.00
JONES	0301 17:46TM

11.27 Paid-Out

A paid-out transaction is used when money is removed from the drawer without totaling to a sale.



NOTES:

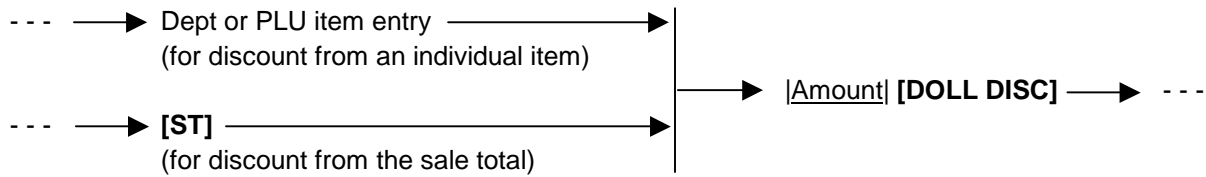
1. Only [AT/TL] can finalize paid-out amounts (i.e. must always be paid out in cash).
2. The All Void operation is not possible during a Paid-Out transaction.
3. Post-issue receipt is not available after the Paid-Out operation.
4. The validation print operation is possible after the [PO] or [AT/TL] key operation.

-- Receipt Print Format --

PO	\$4.50
PO	\$3.20
SUBTL	\$7.70
TOTAL	\$7.70
JONES	0302 17:46TM

11.28 Dollar Discount

OPERATION



-- Receipt Print Format --

(for discount from an individual item)

DP01	\$1.00
DI SC	-0.05

(for discount from the sale total)

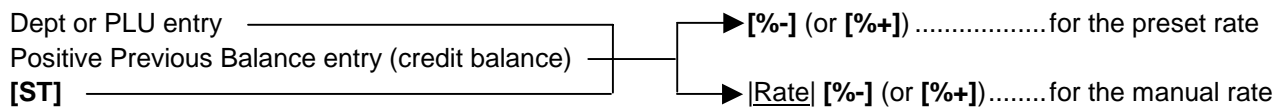
SUBTL	\$21.00
DI SC	-1.00

NOTES:

- This operation can be performed both inside a sale and outside a sale. (The "credit balance" option is ignored.) The dollar discount amount exceeding the subtotal amount can be entered. For the department or PLU programmed with taxable or food stampable status, the amount exceeding each subtotal amount can also be entered. When the taxable or food stampable amount is negative, the Dollar Discount operation is performed on it.
- When the discount amount limit has been programmed, the Dollar Discount operation on the discount amount exceeding the limit is not possible in REG mode. As the discount amount limit is not effective in MGR and modes, the Dollar Discount operation on a maximum of 7-digit discount amount is possible.
- After performing a dollar discount operation, neither the Dollar Discount operation nor the Percent Charge/Discount operation is possible.

11.29 Percent Discount, Percent Charge

OPERATION



-- Receipt Print Format --

DP03	\$3.40
%- 5%	-0.17

SUBTL	\$6.00
%- 10%	-0.60

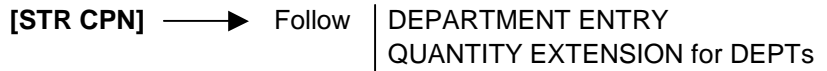
NOTES:

- Rate 0.001 to 99.999 (%).
- When no rate is preset, the value of rate should be entered.
- When the Dept or PLU item entry is modified with [RTN MDSE] or [VOID], the following % entry will also be modified with [RTN MDSE] or [VOID].
- A % entry will cause an error if operated after a Negative Department/PLU or [TXBL TL].
- Even when the rate is preset, an inputted numeric value will be activated as a rate. (Entry of the numeric value 0 causes an error.)
- A % entry after obtaining a subtotal is usually allowed only once. However, it can be programmed to allow multiple times. (Ask your TOSHIBA TEC representative.)

7. You can select the rounding process of the fractions of the product (result of % calculation) from ROUND OFF (initial setting), ROUND UP, and ROUND DOWN. (Ask your TOSHIBA TEC representative.)
8. If the subtotal amount is zero or negative after the [ST] key, a % entry causes an error.
For the department or PLU programmed with taxable or food stampable status, if the subtotal amount is negative, a % entry causes an error.

11.30 Store Coupon

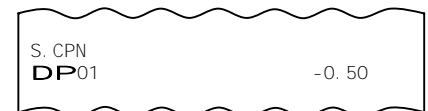
OPERATION



NOTES:

1. The [STR CPN] key operation is possible anytime before depressing the department key.
2. The Store Coupon operation is possible during a sale, however, the operation resulting in a negative subtotal is not possible. By the program option setting, the operation outside a sale and that resulting in a negative subtotal will be possible.
3. The amount should be between the high amount limit and the low amount limit which are preprogrammed on the department. When the [LC OPEN] key is depressed, the high amount limit and the low amount limit for the department will be extended with two higher digits and one lower digit.
4. The Store Coupon operation is not possible for PLUs.
5. The Store Coupon operation is not possible for negative departments.
6. The Store Coupon operation causes an error when the [RTN MDSE] or [VOID] key is depressed.
7. The Quantity Extension operation using an integer is possible. That using a quantity with a decimal point is prohibited.
8. The Percent Charge/Discount and the Amount Discount operation are not possible for the Store Coupon operation sequence.

-- Receipt Print Format --



11.31 Vendor Coupon

OPERATION



NOTES:

1. The declaration key operation is possible anytime before depressing the [VND CPN] key.
2. When the amount limit for the [VND CPN] key is preset, the coupon amount exceeding the limit cannot be entered in REG mode. As the amount limit is not effective in MGR and modes, the Vendor Coupon operation for a maximum of 7-digit amount is possible. These settings cannot be cancelled by the [LC OPEN] key.
3. The Quantity Extension operation is not possible.
4. The vendor coupon operation can be performed both inside a sale and outside a sale. (The "credit balance" option is ignored.) The vendor coupon amount exceeding the subtotal amount can be entered. For the department or PLU programmed with taxable or food stampable status, the amount exceeding each subtotal amount can also be entered.
When the taxable or food stampable amount is negative, the Vendor Coupon operation is performed on it.

-- Receipt Print Format --



11.32 Listing Capacity Open

For Departments and PLUs

Depress **[OPEN]** (or **[LC OPEN]**) prior to or any time during an entry of an open-department, open-PLU, or preset-open department or PLU sequence (including REPEAT and QUANTITY EXTENSION entries). Please note that the **[OPEN]** (or **[LC OPEN]**) key must be pressed, at latest, before the final key of the entry sequence. The High Amount Limit for the department or PLU will be extended with two higher digits, and the Low Amount Limit will be extended with one lower digit. For entering an amount still exceeding these limits, you must call for a Manager Intervention.

For Media Tender Amounts

Depress **[OPEN]** (or **[LC OPEN]**) before or after the amount but Media Key. The High Amount Limit for the media tendering will be extended with one higher digit. In need of still exceeding this limit, you must call for a Manager Intervention.

For Amounts through **[DOLL DISC]**, **[VND CPN]**, **[STR CPN]**

To exceed their limits, you must always call for a Manager Intervention. The **[OPEN]** (or **[LC OPEN]**) key will not be effective. As for the **[STR CPN]** key only, the amount is limited by both High Amount Limit of the department through which the store coupon amount is entered and the amount limit for **[STR CPN]**. That is, when an amount cannot be entered using **[OPEN]** (or **[LC OPEN]**), you must call for a Manager Intervention.

11.33 Non-Add Number Print

Non-add numbers can be entered and printed for future references, to indicate codes or numbers of customers, media Checks, credit cards, etc. The entered numbers do not affect any sale total data.

OPERATION (allowed any time during a sale or transaction)

(--- →) |Number| [#] → ---
Max. 18 digits.

Non-add No. Print

-- Receipt Print Format --

#1234	
PO	\$6. 50
PO	\$7. 50
TOTAL	\$14. 00

NOTES:

1. When "012300" **[#]** is entered, "#12300" will be printed.
2. The Item Correct operation is not possible in the Non-add No. Print sequence.
3. No-sale exchange after the **[#]** key entry is prohibited by the program option setting.
4. The Non-add No. Print operation is possible only once in a sale transaction by the program option setting.
5. The Repeat, Dollar Discount, Percent Charge/Discount, and Receipt Post-Issue operations are not possible after performing the Non-add No. Print operation.
6. The symbol # and the entered code are indicated on the leftmost digits of the LCD display. (When a 16-digit-or-more code is entered, the lower 15 digits are displayed.)

11.34 Check Cashing (No-sale cashing of a non-cash media)

This operation is performed when a check is changed with cash.

OPERATION (Must be operated outside a sale)

Check Amount to be Cashed **[CHECK TEND]** ... The drawer opens to enable the exchange.
 Max. 8 digits

Example) To encash the check for \$10.00.
 1000 **[CHECK TEND]**

-- Receipt Print Format --

10-20-2006 FRI #3001	
CHECK	\$10.00
JONES	0291 17:31TM

NOTES:

1. Other non-cash media keys may be used for this purpose if programmed to allow no-purchase cashing.
2. Post-issue receipt is not available after the Check Cashing operation.
3. The food stamp cannot be changed with cash.
4. The validation print operation after the check cashing operation is possible.
5. When the media keys are programmed with the validation-compulsory status, the drawer opens after the Validation Print operation.
6. Sale finalization by the EFT is possible only when the **[DEBIT]** or **[EBT CASH]** key has been programmed with the status "EFT media" in the EFT key status setting. If not, ordinary sale finalization is performed.

Check Amount Cashed

11.35 No-Sale Exchange from Foreign Currency to Domestic Currency

OPERATION (Must be operated outside a sale)

[CUR 1] → Amount of Foreign Currency 1 to be exchanged **[NS]**

... The drawer opens to enable exchange. The domestic currency amount equivalent to the entered foreign currency amount is displayed.

NOTES:

1. The **[CUR 2]** to **[CUR 5]** keys operate the same.
2. The fraction process method is fixed to Round OFF.
3. On the validation after performing the No-Sale Exchange from Foreign Currency to Domestic Currency, the exchanged amount is printed.

-- Receipt Print Format --

Amount of CUR1 to be exchanged	CUR1	10.00
Exchange Rate (optional print)	1.0914*	
Domestic Currency amount equivalent to the CUR2	CHANGE	\$9.16

11.36 No-Sale Exchange from Domestic Currency to Foreign Currency

OPERATION (Must be operated outside a sale)

[Amount of Domestic Currency to be exchanged] [CUR 1] → [NS]

... The drawer opens to enable exchange. The foreign currency amount equivalent to the entered domestic currency amount is displayed.

NOTES:

1. The [CUR 2] to [CUR 5] keys operate the same.
2. This operation (exchange from domestic to foreign currencies) may be prohibited by a program option.
3. The fraction process method is fixed to Round Off.
4. On the validation after performing the No-Sale Exchange from Domestic Currency to Foreign Currency, the exchanged amount is printed.

-- Receipt Print Format --

Domestic Currency amount to be exchanged
Exchange Rate of CUR3 (optional print)
CUR1 amount equivalent to the domestic currency amount

CATEND	\$1.00
1.445*	
CUR1	1.45

11.37 PLU Price Shift Entry ([PRICE SHIFT 1] to [PRICE SHIFT 3] Keys)

Depressing the [PRICE SHIFT] key designates a PLU item, adding the printed number (1 to 3) to an entered PLU code.

OPERATION

[PRICE SHIFT 1] → PLU Entry (To enter a PLU item of the entered code plus 1)
[PRICE SHIFT 2] → PLU Entry (To enter a PLU item of the entered code plus 2)
[PRICE SHIFT 3] → PLU Entry (To enter a PLU item of the entered code plus 3)

Example) When the PLU Code 200 is designated after the [PRICE SHIFT 2] is depressed, this sales transaction will result in the sales item entry of the PLU Code 202.

NOTES:

1. Depressing the [C] key immediately after the [PRICE SHIFT] key results in the cancellation of the PLU Price Shift Entry.
2. The [PRICE SHIFT] key can be depressed any number of times before the PLU entry. The last depressed [PRICE SHIFT] key becomes effective.
3. The Repeat entry after depressing the [PRICE SHIFT] key is not possible.

11.38 PLU Price Shift Entry ([1st PRICE], [2nd PRICE], [3rd PRICE] Keys)

Up to three different unit prices can be programmed for each PLU and you can select either of the following two features.

The price shift function is used when switching the PLU price by time period.

Example) Regular price is programmed on the 1st price, bargain price is on the 2nd price, and discount price is on the 3rd price.

1st price	2nd price	1st price	3rd price
Regular price	Bargain price	Regular price	Discount price
From opening time to 13:00	From 13:00 to 15:00	From 15:00 to 19:00	From 19:00 to closing time

11.38.1 Price Shift Entry “Keeping the shifted Price Level” Feature

OPERATION

- (1st price) **[2nd PRICE]** (2nd price)
- (2nd price) **[3rd PRICE]** (3rd price)
- (3rd price) **[2nd PRICE]** (2nd price)

NOTES:

1. The price mode can be shifted by the price shift key depression, however, it remains unchanged by the mode change.
2. During a price shift declaration, neither receipt print nor journal print is performed.
3. Current price level can be displayed by the program option.
4. The price shift function can be selected between “Keeping the shifted price level” and “Effective only for one PLU entry” by the program option.

11.38.2 Price Shift Entry “Effective only for One PLU Entry” Feature

OPERATION

- **[2nd PRICE] [PLU]**
(2nd price)
- **[3rd PRICE] [PLU]**
(3rd price)
- **[PLU] [2nd PRICE] [PLU] [PLU]** (Repeat)
(1st price) (2nd price)(2nd price)
- **[PLU] [3rd PRICE] [PLU] [PLU]** (Repeat)
(1st price) (3rd price)(3rd price)
- **[PLU] [2nd PRICE] [3rd PRICE] [PLU]**
(1st price) (3rd price)

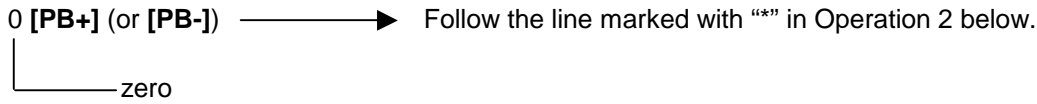
NOTES:

1. Price shift operation is active for the next PLU entry only (except for the Repeat entry). After the PLU entry, the price mode automatically returns to the 1st price mode.
2. Price shift declaration can be cleared by the **[C]** key. Also other registrations excepting the PLU entry clear this condition.
3. For Repeat entry after the price shift declaration, the shifted price is repeated.
4. For Price Shift operation after the **[VOID]** or **[RTN MDSE]** key depression, the shifted price is active.
5. During a price shift declaration, neither receipt print nor journal print is performed.

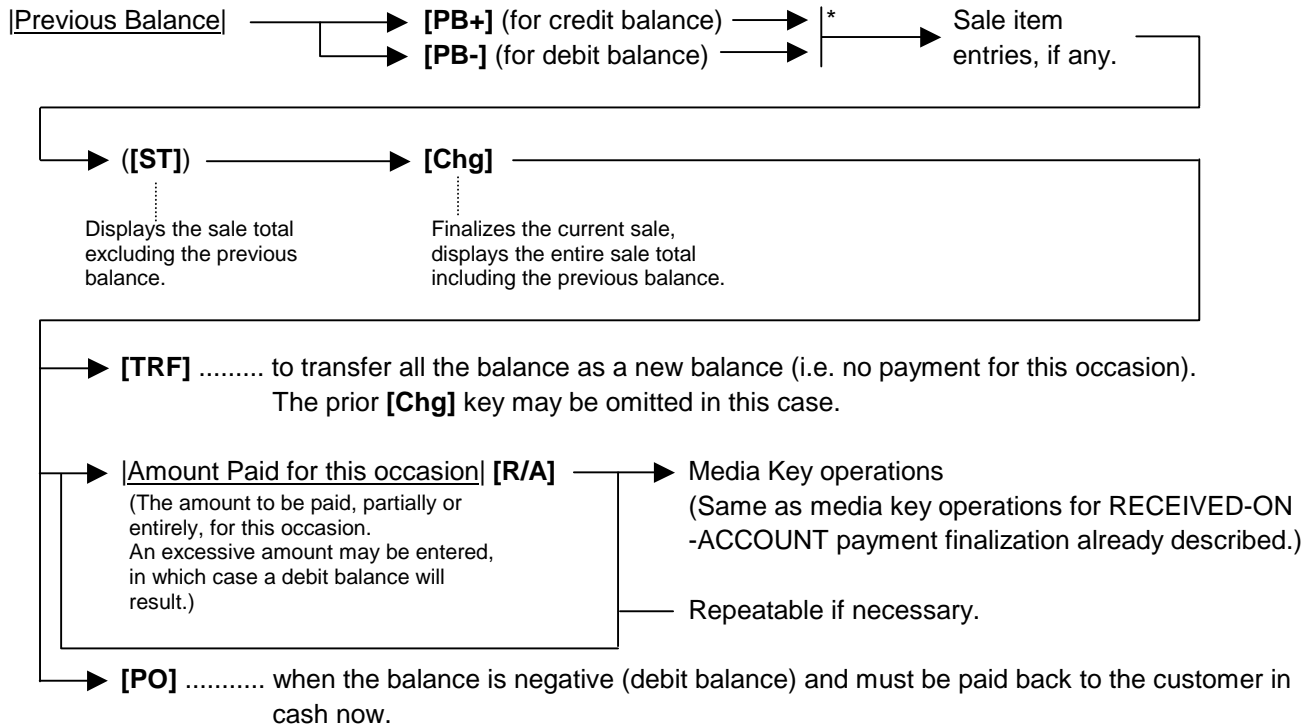
11.39 Charge Posting: Previous Balance Manual Entry Type

OPERATION

(1) To initiate charge posting for a new customer



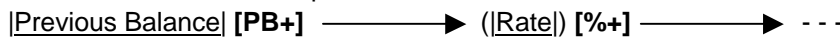
(2) Charge posting with a previous balance first entered (pre-select) with or without PAYMENT



(3) Charge posting with a previous balance entered during a sale (post-select)

A previous balance (including a zero balance for a new customer) may be entered not only before sale items but also after or between them if the [Chg] key has not been depressed. Multiple previous balance entries are possible within a sale (for the purpose to sum up multiple accounts into one, etc.).

(4) Percent rate addition to a previous balance



- NOTES:**
1. The [%-] key operates the same for percent discounting.
 2. The previous balance entered through [PB-] (debit balance) will not allow %+ or %- operation.
 3. When the last key is programmed with the validation-compulsory status, the drawer opens after the Validation Print operation.

Charge Posting Operation Sample (Previous Balance Manual Entry Type)

OPERATION CONTENTS	KEY OPERATION	DISPLAY (Lower Row)
To open a new customer account: Sale Items: \$3.50 Dept.1 \$2.40 Dept.3 Finalize this sale. To transfer all the balance without payment.	0 [PB+] 350 [DEPT 1] 240 [DEPT 3] ([Chg]) [TRF] <i>(See Receipt 1 below.)</i>	0. 0 0 0 1 3. 5 0 0 3 2. 4 0 6. 2 3 6. 2 3
The above customer comes to the store for payment. All his balance is read. He will pay all the balance today. He tenders \$7.00 in cash. The balance of the customer is now zero. Give the change to the customer in cash.	623 [PB+] (previous balance) [Chg] 623 [R/A] 700 [AT/TL] <i>(See Receipt 2 below.)</i>	6. 2 3 6. 2 3 6. 2 3 0. 7 7

-- Receipt Print Format --

Receipt 1

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Closed: every Wednesday

10-20-2006 FRI #3001

PB+	\$0.00
DP01	\$3.50
DP03	\$2.40
Chg	\$5.90
NEW BAL	\$5.90

ITEM 2
JONES 0338 18:26TM

Receipt 2

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Closed: every Wednesday

10-20-2006 FRI #3001

PB+	\$5.90
Chg	\$5.90
R/A	\$5.90
CATEND	\$10.00
CHANGE	\$4.10
NEW BAL	\$0.00

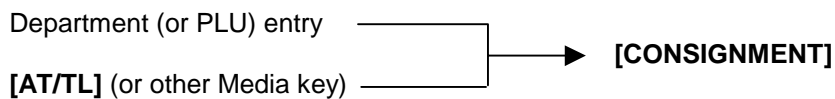
ITEM 0
JONES 0339 18:27TM

New Balance is transferred as PB.

11.40 Consignment Print

Immediately after performing the Department/PLU entry or finalizing a sale, the **[CONSIGNMENT]** key depression leads to an issuance of a receipt only for the entry or sale finalization just performed.

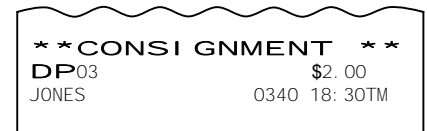
OPERATION



NOTES:

1. The following options are selectable.
 - (1) Print/Non-print option selection
 - Date
 - Consecutive No.
 - Cashier name
 - Messages on the header/footer portion of the receipt (logo, store message, commercial message)
 - (2) Frequency of this operation either Multiple times or Single time
2. This operation causes an error after the Non-add Number Print or No-sale transaction.
3. Each key can be programmed with consignment compulsion status by the program option setting.
4. While previously registered contents are printed in process of registration, this operation is not possible.
5. This operation is possible after the sale finalization or Short-tendering operation.

-- Receipt Print Format --



11.41 Validation Print

After performing a sale finalization, insert a validation slip into the validation slot which is provided on the remote slip printer then depress the **[VALIDATE]** key, resulting in that the sale amount and the trailer are printed in two lines.

OPERATION

[VALIDATE]

NOTES:

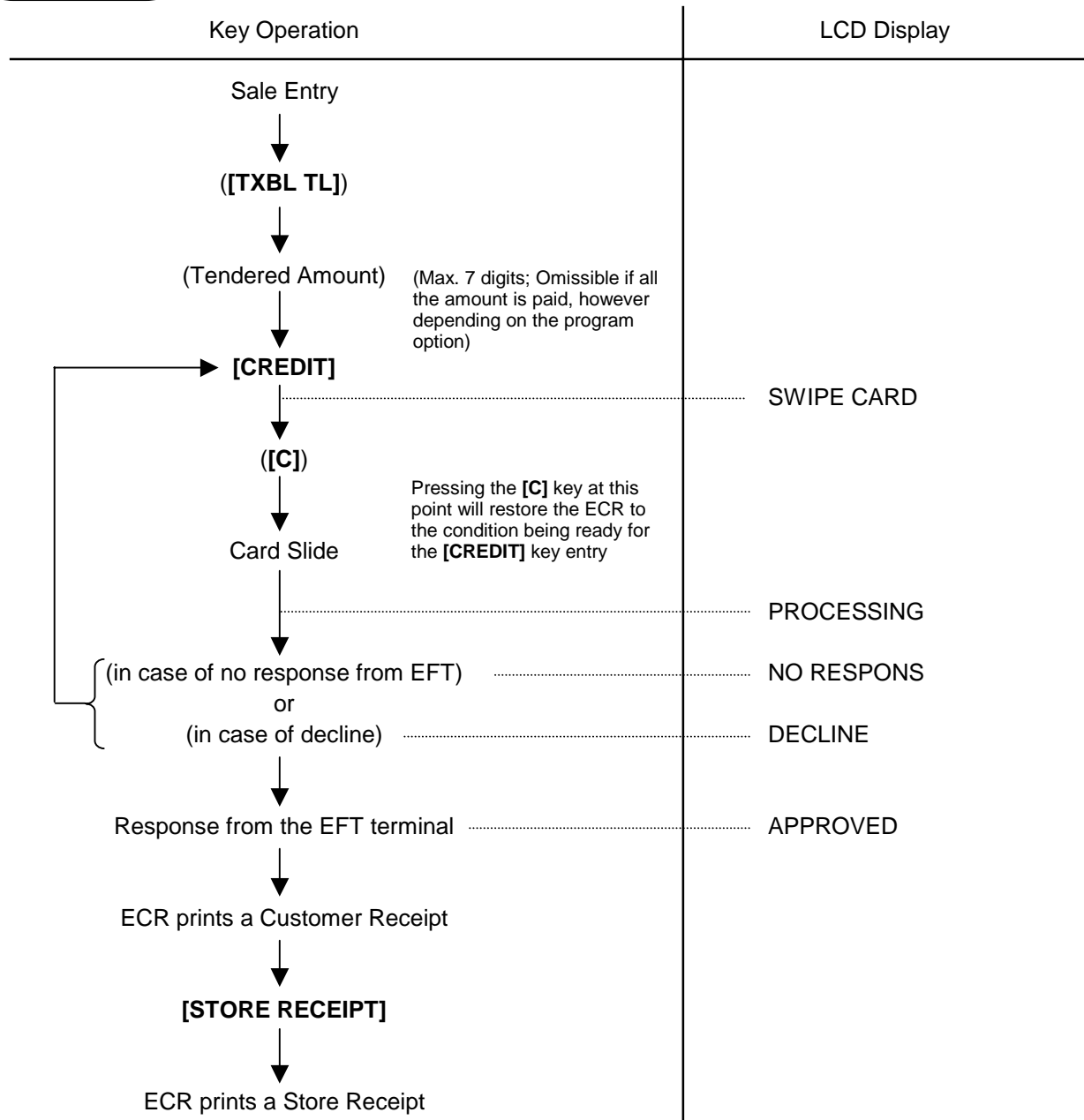
1. When this operation is performed by a training cashier, the message "TRAINING" is surely printed on the validation slip.
2. The validation slip should be set to the remote slip printer beforehand.
3. When the validation compulsory status after the issuance of the long receipt is activated, the Validation Print is performed then the drawer opens.
4. The subtotal amount is printed on the validation after performing the All Void operation.
5. The tendered amount is printed on the validation after tendering food stamps.
6. When the taxable total display by the **[ST]** key depression has been programmed, not the taxable total amount but the subtotal amount is printed.
7. While the entered data is printed by the slip printer, if you want to perform a validation print, press the RELEASE key of the slip printer to replace the slip with the validation slip, then depress the **[VALIDATE]** key.
8. Characters of character codes 1007, 1206, 1207, 1211, 1500 through 1503, 1506 through 1514 such as Ë, →, ←, kg, lb, and No are not printed on the validation slip.

11.42 Sale Finalization by Electronic Fund Transfer (EFT)

Sale transaction by the various cards such as credit card is executed via the EFT terminal.

(1) CREDIT Authorization

OPERATION

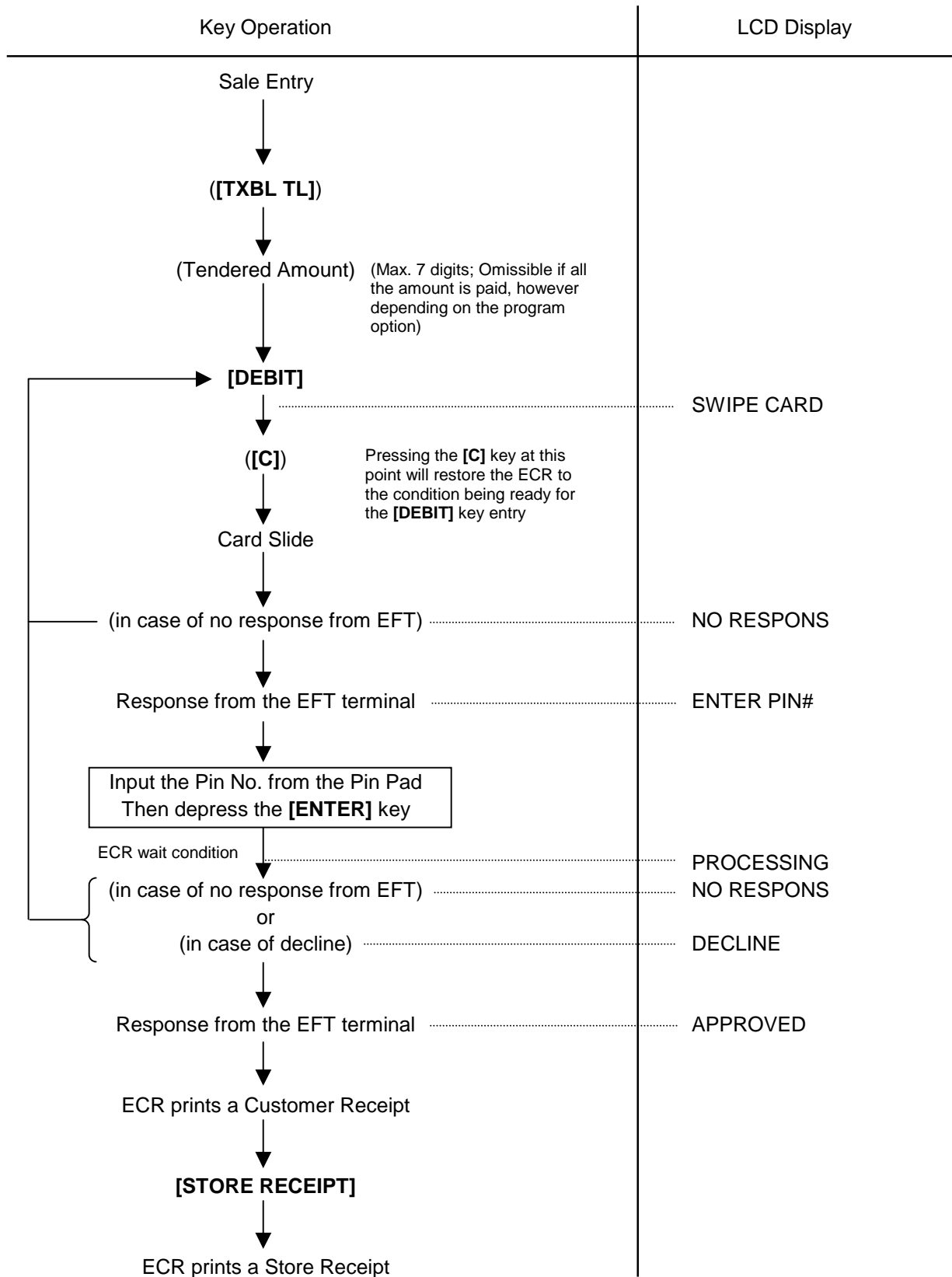


NOTES:

1. At tendering in Foreign Currency, the EFT media cannot be used.
2. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
3. Training Cashiers are unacceptable to the EFT terminal.
4. When "PROCESSING" is displayed, none of the operations on the ECR are possible.
5. EFT entry is also available to the partial payment to the received on account and charge posting transactions.
6. For the EFT function, do not perform any registration in Receipt OFF mode.
7. Store receipt must be issued to perform next transaction or read/reset jobs.
8. Validation print operation after finalizing a sale transaction by the EFT is not possible.

(2) DEBIT Authorization

OPERATION



NOTES:

1. At tendering in Foreign Currency, the EFT media cannot be used.
2. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
3. Training Cashiers are unacceptable to the EFT terminal.
4. When "PROCESSING" is displayed, none of the operations on the ECR are possible.
5. EFT entry is also available to the partial payment to the received on account and charge posting transactions.
6. Validation Print operation after finalizing a sale transaction by the EFT is not possible.
7. Finalization of the **[DEBIT]** key operation in - mode causes an error.

(3) CREDIT/DEBIT Refund

OPERATION

[RTN MDSE] to be continued to the top of "CREDIT/DEBIT Authorization" sequence

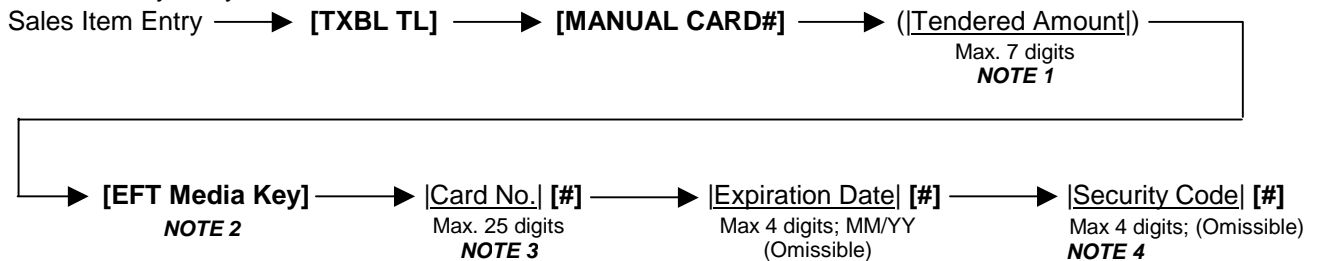
NOTES:

1. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
2. Training Cashiers are unacceptable to the EFT terminal.
3. Key operation on the ECR is unavailable during the inquiry to the host.
4. Validation Print operation after finalizing a sale transaction by the EFT is not possible.
5. During the Refund operation, finalizing operation by several EFT media keys should not be performed.

(4) Manual Card Number Entry

When the EFT terminal cannot read information contained in a card, the EFT approval entry will be executed by manually entering the card No. and the expiration date on the ECR.

• EFT Media Key Entry



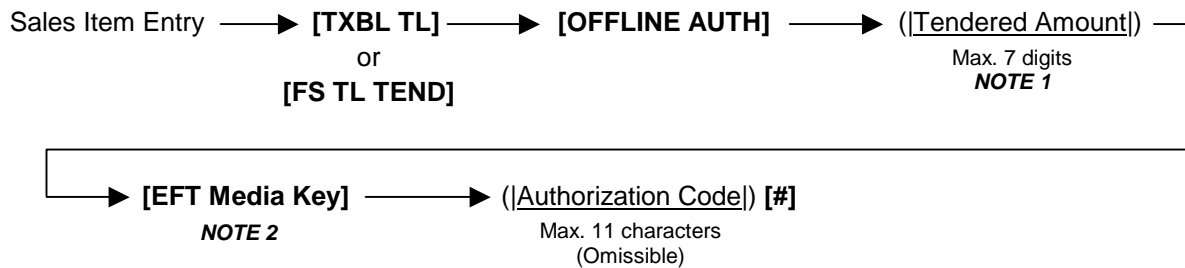
NOTES:

1. Entry of tendering amount is omissible if a customer pays all the amount.
2. EFT Media Key: **[CREDIT]** (except for the **[DEBIT]** key)
3. For the Card No. entry, entering 0 at the beginning of the card No. is valid. Example) When "00123" is entered, "00123" will be printed.
4. Enforced security code entry can be set by the program option.

(5) Off Line Authorization

When the EFT system is in trouble and down, the EFT can be finalized on the ECR. To obtain the authorization code of the EFT approval, you tell the customer's card data and the amount of purchase to the EFT authorization company on the telephone.

OPERATION



NOTES:

1. Entry of tendering amount is omissible if a customer pays all the amount.
2. EFT Media Key: **[CREDIT], [DEBIT], [EBT CASH], [EBT F/S], [CHECK TEND]**
3. Before performing this operation, each EFT Media Key should be programmed with the statuses both "with EFT process" and "off line authorization is available". Failure to do this may cause an error.
4. None of store receipt is issued by the Off Line Authorization operation.
5. In Off Line Authorization operation, the Manual Card No. entry is unavailable.
6. The OFF Line Authorization operation is not possible by cashiers with training status.
7. Values 0 to 9 and A to Z should be used to enter the Authorization Code.

Keyboard layout for the Authorization Code entry

The keyboard layout is changed by the **[EFT Media Key]** depression as shown below. Accordingly, values 0 to 9 and A to Z can be entered for the Authorization Code.

-- Ordinary Keyboard Type --

				A	F	K	P	U
		C		B	G	L	Q	V
		7	8	9	C	H	M	W
		4	5	6	D	I	N	X
#		1	2	3	E	J	O	T
		0						Z

-- Flat Keyboard Type --

												C		
										#	7	8	9	
Q	W	E	R	T	Y	U	I	O	P		4	5	6	
A	S	D	F	G	H	J	K	L			1	2	3	
Z	X	C	V	B	N	M					0			

(6) Store Receipt

This operation is used for manually issuing the store receipt.

OPERATION

[STORE RECEIPT]

NOTES:

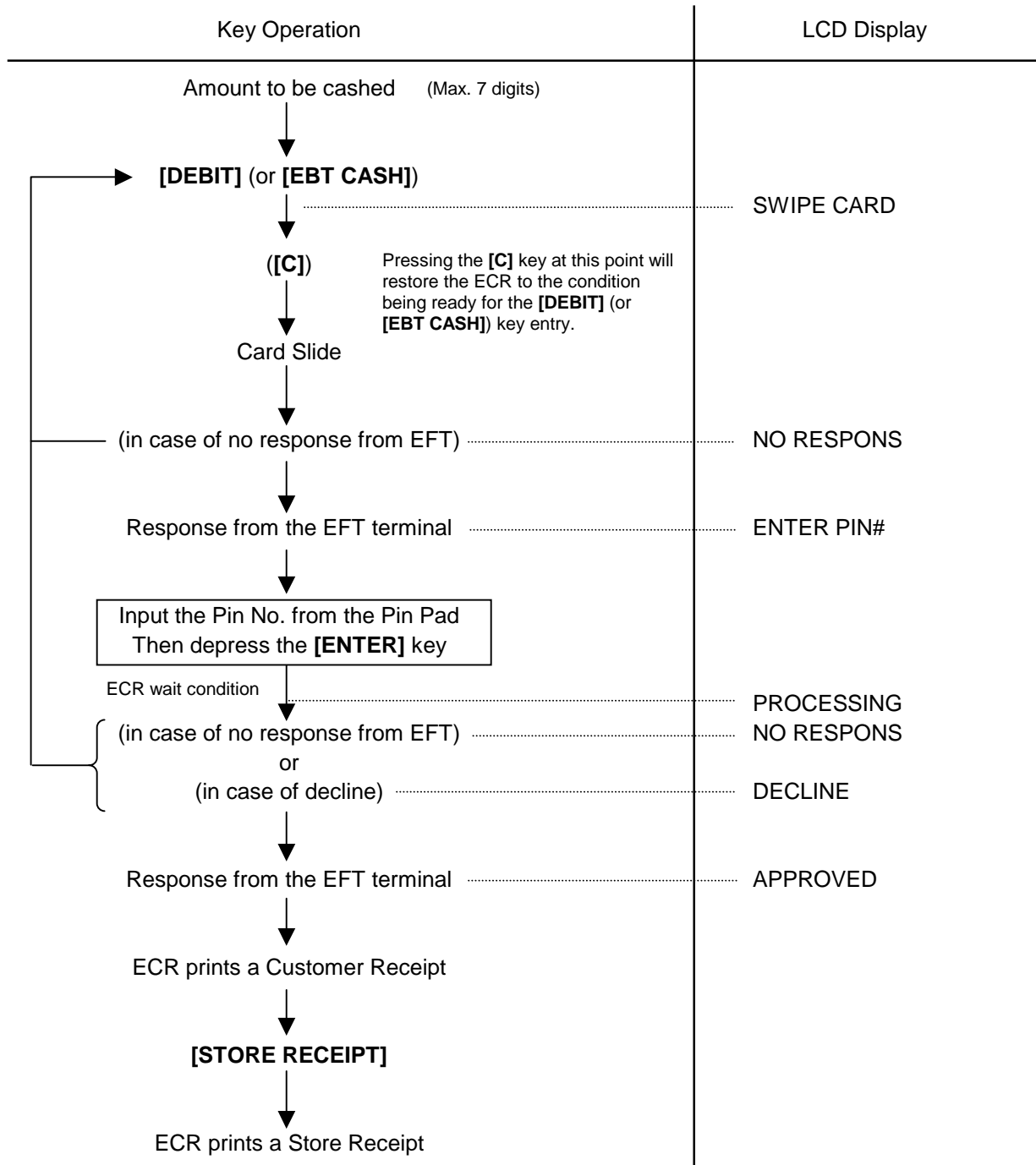
1. Journal print is not performed.
2. In case of the tendering operation (multi- or split-), the [STORE RECEIPT] key can be depressed at the same number of times as its operation. (Allowed up to 4 times)
3. None of store receipt is issued by the Off Line Authorization operation.
4. The [STORE RECEIPT] key should be programmed with the status "Issuance of store receipt is available." in the EFT key status setting. Failure to do this may cause an error.
5. When the host responds decline, the Store Receipt operation causes an error.

(7) Cashing Authorization

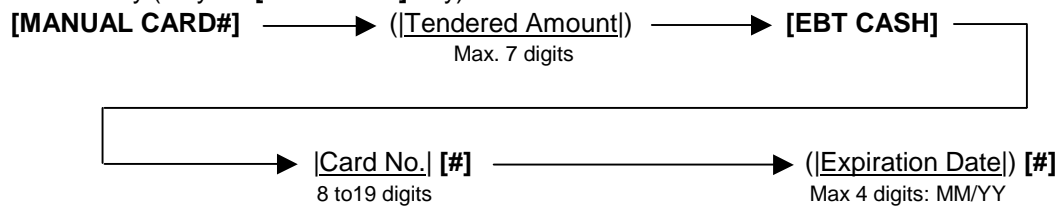
Cashing operation with a Debit card or EBT cash card is performed here.

OPERATION

- Without Card Number Entry



- Manual Entry (only for **[EBT CASH]** key)

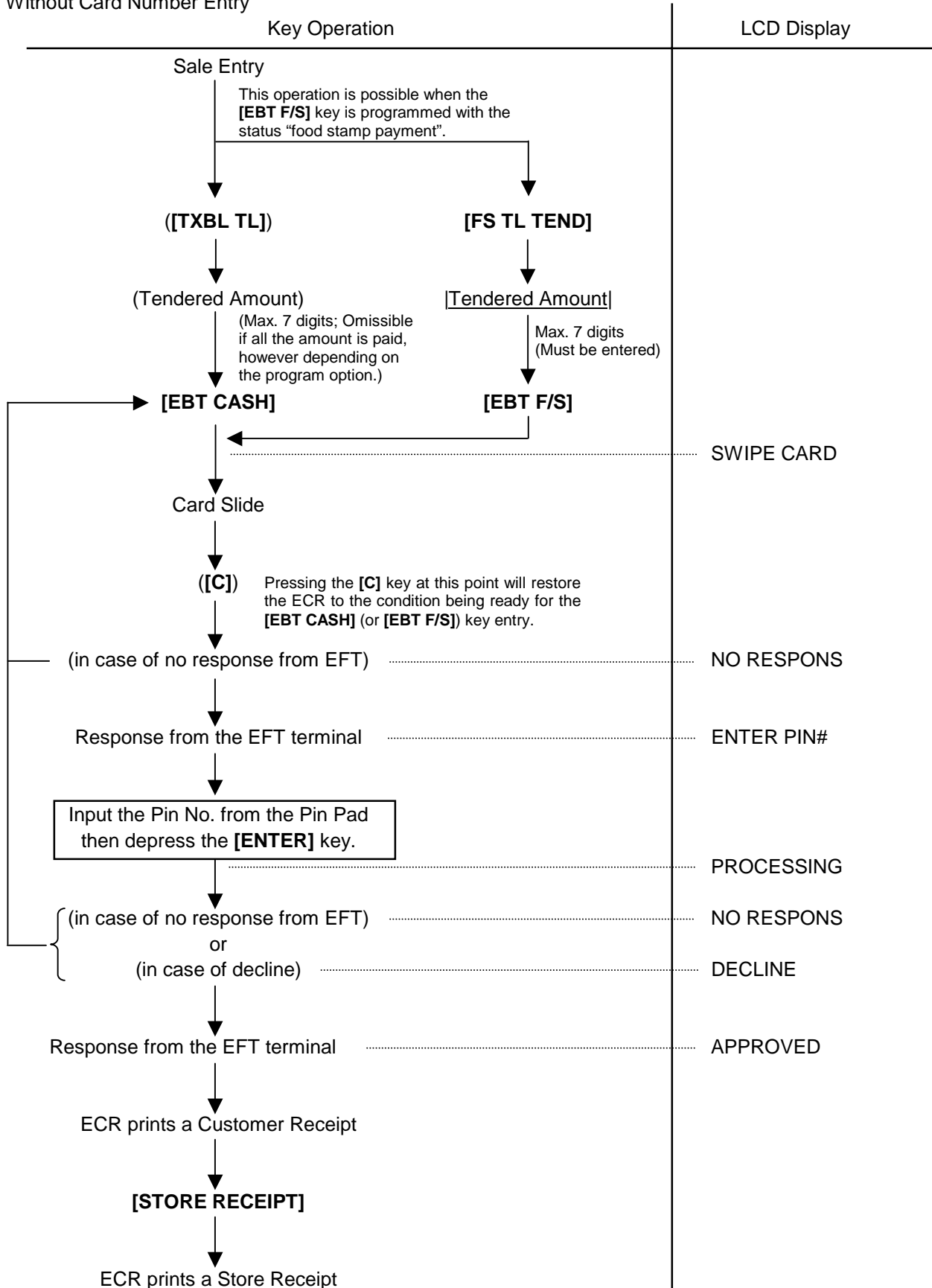
**NOTES:**

1. Before performing this operation, the **[DEBIT]** (or **[EBT CASH]**) key should be programmed with the status "no-purchase cashing is allowed". Also each EFT Media Key should be programmed with the status "with EFT process". Failure to do this may cause an error.
2. For the EFT function, do not perform any registration in Receipt OFF mode.
3. Receipt post-Issue operation after the Cash-only Debit is unavailable.
4. Key operation on the ECR is unavailable during the inquiry to the host.
5. Training Cashiers are unacceptable to the EFT terminal.
6. Store receipt must be issued to perform next transaction or read/reset jobs.
7. EFT Cashing Authorization operation with the **[CREDIT]**, **[CHECK TEND]**, or **[EBT F/S]** key is not possible. (This operation in REG or MGR mode works as a no-sale cashing of a non-cash media.)

(8) EBT CASH, EBT F/S Purchase
Purchase with an EBT cash card or EBT food stamp card is performed here.

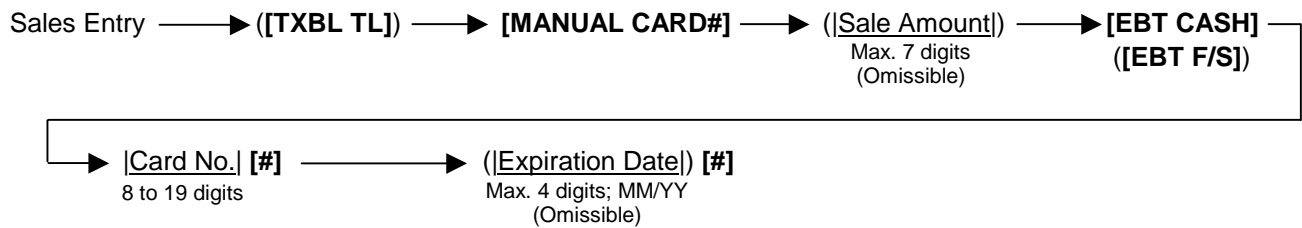
OPERATION

• Without Card Number Entry



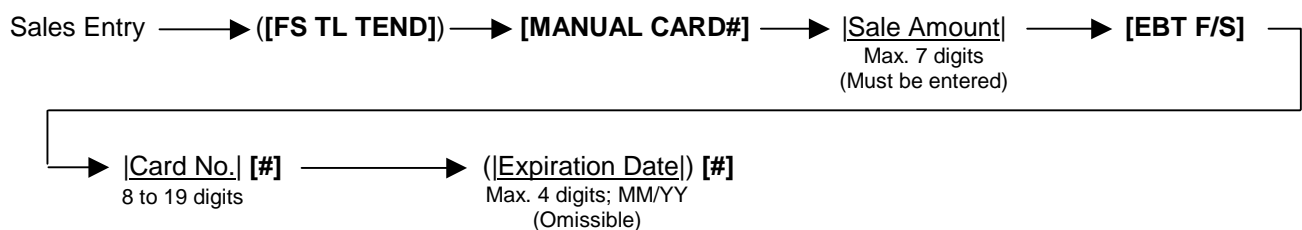
- Manual Entry

(when the **[EBT CASH]** or **[EBT F/S]** key has been programmed with the status “taxable total payment”).



- Manual Entry

(when the **[EBT F/S]** key has been programmed with the status “food stamp payment”).



NOTES:

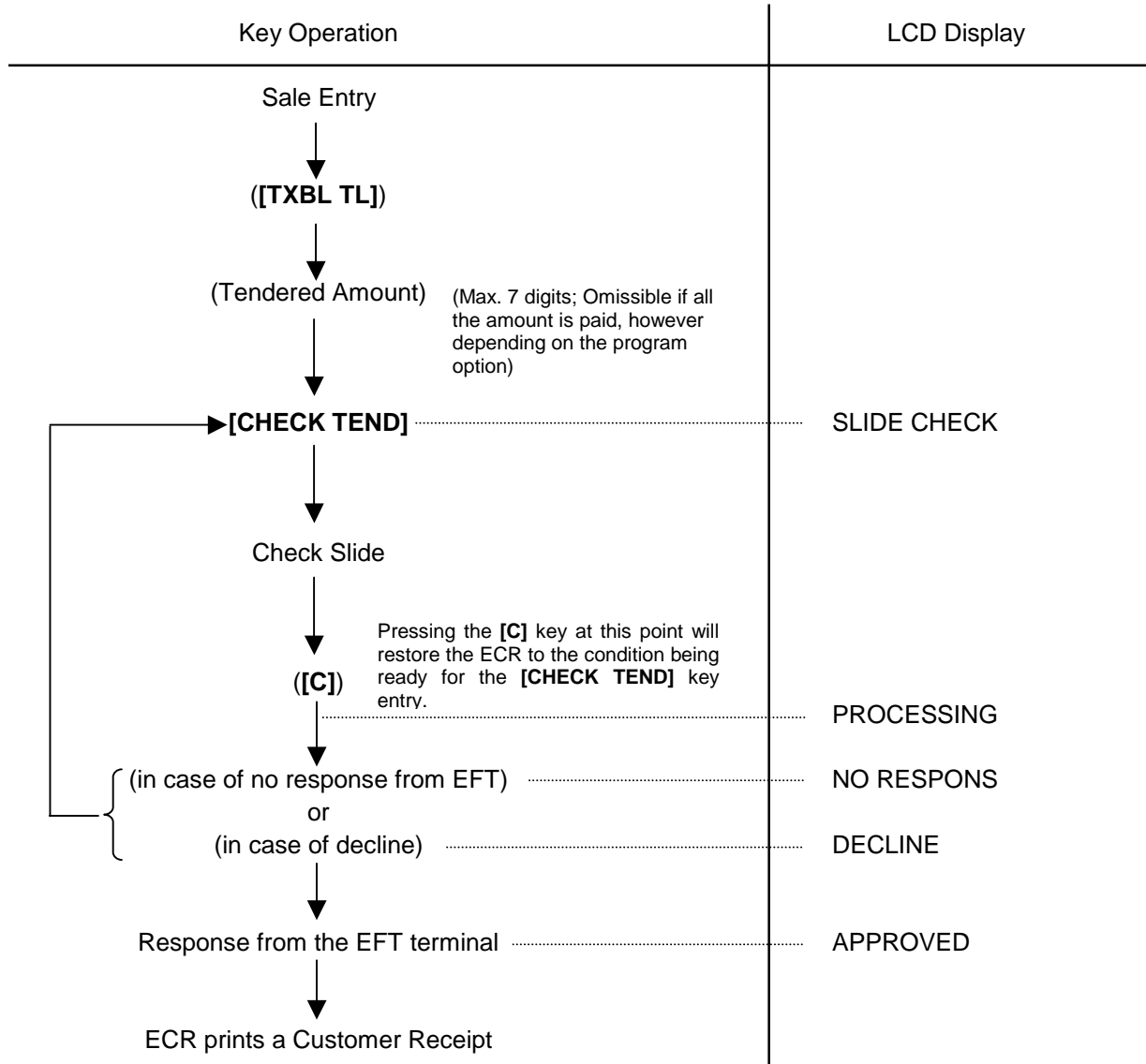
1. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
2. Key operation on the ECR is unavailable during the inquiry to the host.
3. Contents of the customer receipt are printed on the journal, but those of the store receipt are not.
4. Up to 4 times of Multi-tendering operation or Split-tendering operation is possible when finalizing a sale transaction by the EFT, however, the 5 times of the operation causes an error. At this time, the sale finalization operation is possible only when using the **[AT/TL]** key or the media keys with the status “without EFT process”.
5. Sale finalization by the EFT is possible only when the media key has been programmed with the status “EFT media” in the EFT key status setting. If not, ordinary sale finalization is performed.
6. Training cashiers are unacceptable to the EFT terminal. (Ordinary finalization operation can be performed.)
7. Issuance of the store receipt is selectable by the EFT key status setting.
8. When tendering in foreign currency, the EFT media keys are not accepted.
9. For the EFT function, do not perform any registration in Receipt OFF mode.
10. Multiplication operation for each media with the EFT media keys is not possible.
11. Store receipt must be issued to perform next transaction or read/reset jobs.
12. Validation Print operation after finalizing a sale transaction by the EFT is not possible.
13. Negative balance sale causes an error.

(9) Check Authorization

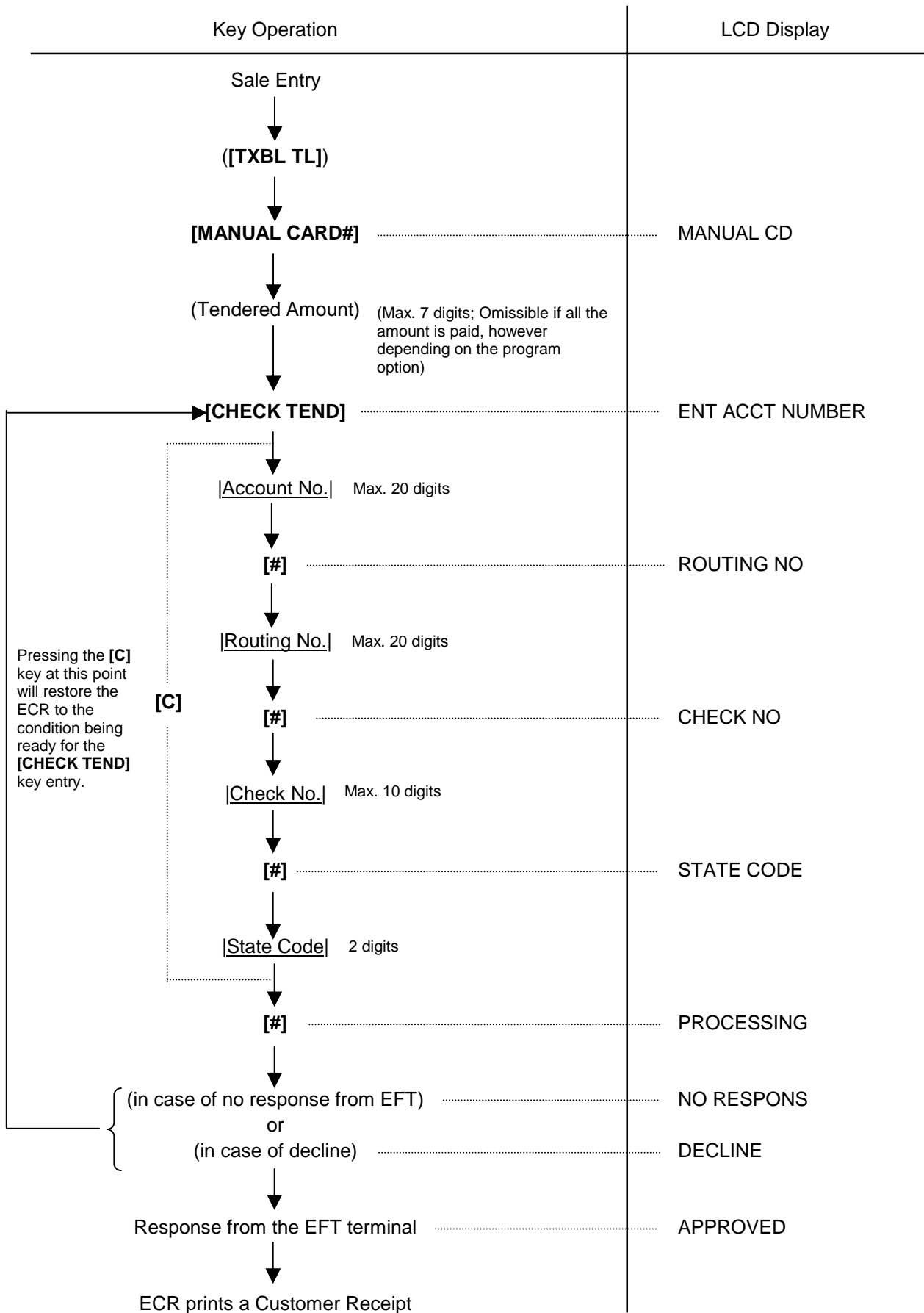
Sale finalization by a check via the EFT terminal is performed.

OPERATION

- Without Card Number Entry



• Manual Entry



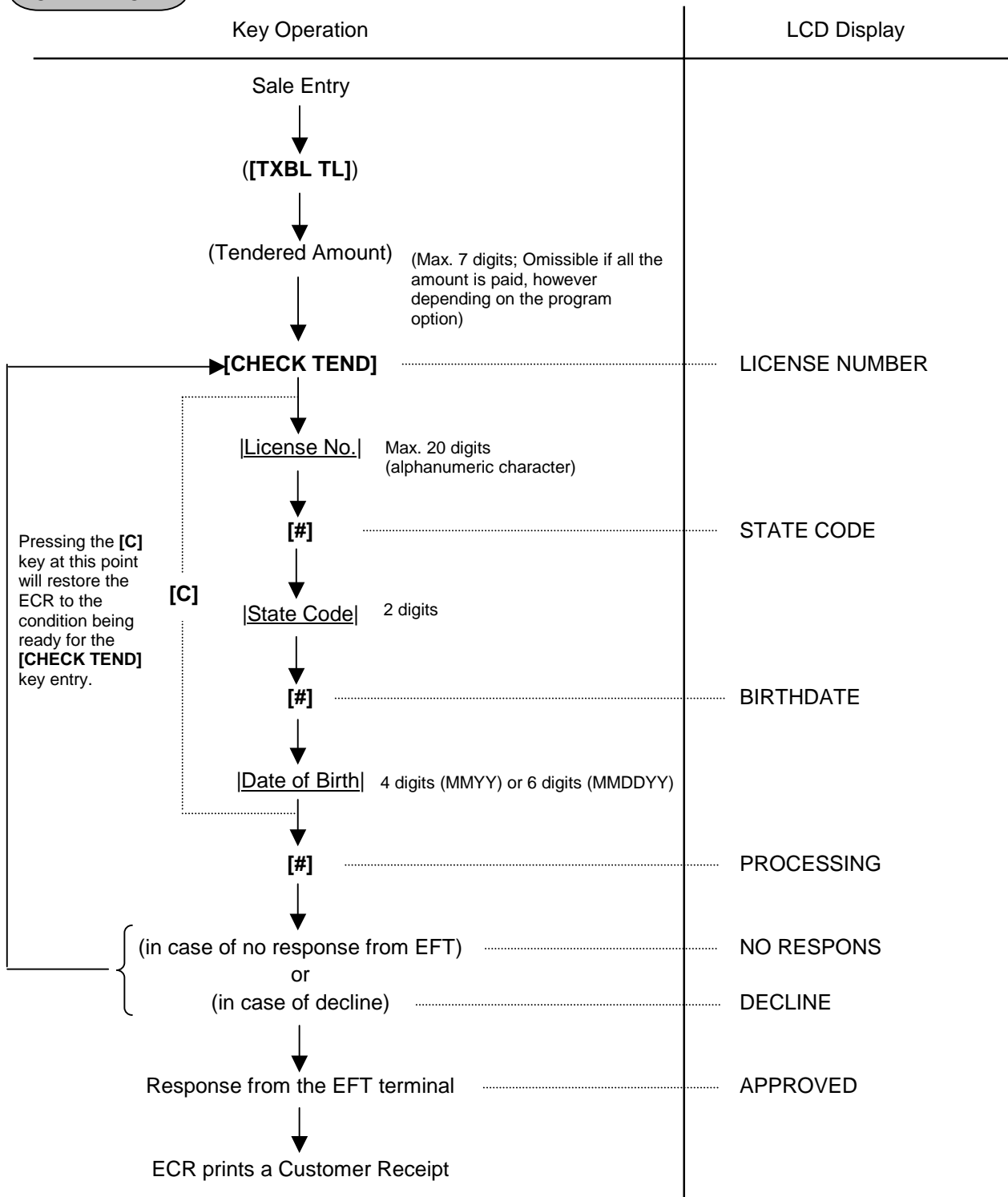
NOTES:

1. *It is possible to cancel this operation prior to the inquiry to the host (i.e. before the message "PROCESSING" is displayed).*
2. *Customer receipt is printed, but store receipt is not.*
3. *Training cashiers are unacceptable to the EFT terminal. (Ordinary finalization operation can be performed.) When they depress the **[MANUAL CARD#]** key at the manual entry, it results in an error.*
4. *As the finalization of the **[CHECK TEND]** key, only the Check Authorization is possible. (Return operation is not possible.)
When negative balance sale is given in REG or MGR mode, the finalization of the **[CHECK TEND]** key causes an error. Also, this operation causes an error in - mode.*
5. *This operation is possible only when "check authorization" has been selected for the **[CHECK TEND]** key function in the program option setting.*

(10) Driver's License Authorization

Sale finalization by a driver's license via the EFT terminal is performed.

OPERATION



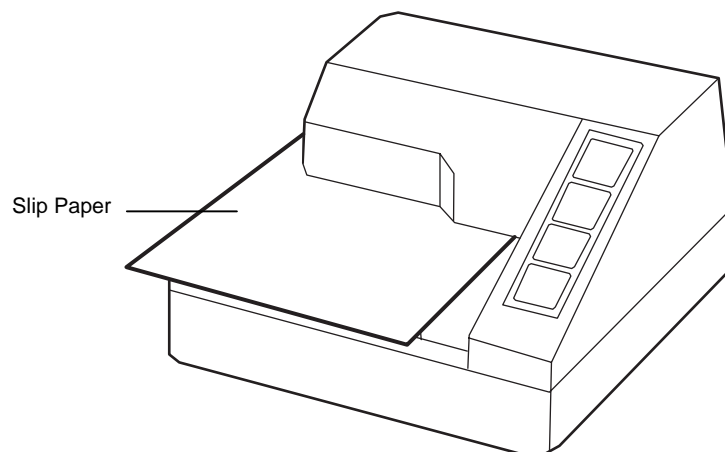
NOTES:

1. *It is possible to cancel this operation prior to the inquiry to the host (i.e. before the message "PROCESSING" is displayed).*
2. *Customer receipt is printed, but store receipt is not.*
3. *Training cashiers are unacceptable to the EFT terminal. (Ordinary finalization operation can be performed.)*
4. *As the finalization of the **[CHECK TEND]** key, only the Check Authorization is possible. (Return operation is not possible.)*
*When negative balance sale is given in REG or MGR mode, the finalization of the **[CHECK TEND]** key causes an error. Also, this operation causes an error in - mode.*
5. *Date of birth can be entered with 3 digits (MY) or 5 digits (MDDYY) also.*
Example: Entry of January 2000 ... 100 [#]
Entry of January 15, 2000 ... 11500 [#]
6. *This operation is possible only when "driver's license authorization" has been selected for the **[CHECK TEND]** key function in the program option setting.*

11.43 Remote Slip Printer (hardware option) Operation

- (1) The EPSON Remote Slip Printer TM-U295 may be connected to the ECR as an optional device.
- (2) The remote slip printer will operate printing if a slip is properly inserted.
- (3) At a registration operation (in **REG**, **MGR**, or mode)
 - The remote slip printer will automatically activate printing when the slip has properly been set to the printer table.
 - Remote slip print compulsion for any Previous Balance entry can be selected by the program option.
 - When the slip is full during a registration operation, the message "SLIP PAPER OUT" is indicated in the LCD display and the registration operation is prohibited until another slip is properly set. Data stored in the slip printer is printed on the slip. Subsequently the **[C]** key depression extinguishes the message and the remaining data is printed.
- (4) At a Read/Reset operation (in **X** or **Z** mode)
 - The remote slip printer will automatically activate printing when the slip has properly been set to the printer table.
 - When the slip is full during a registration operation, the message "SLIP PAPER OUT" is indicated in the LCD display. Data stored in the slip printer is printed on another slip which is properly set. Subsequently the **[C]** key depression extinguishes the message and the remaining data is printed.
- (5) The gap of the slip inlet is usually opened, and the slip may be inserted or withdrawn freely outside a receipt/journal print sequence.

When a slip is properly set to the remote slip printer and the ECR is operated, the gap will be closed and printing will be performed. When the sale is finalized and the receipt is issued, the gap of the remote slip printer will be opened to allow the slip withdrawal. (The gap keeps closed during sale item entries.)
- (6) The **RELEASE** key on the remote slip printer may be used for opening the closed gap. When pressing this key during a print operation, the remote slip printer pauses printing and the gap is opened.
- (7) Printing on the slip will be performed in the same format of receipt.
- (8) If the remote slip printer turns OFF or the cable is disconnected, it may cause a "SLIP OFF LINE" error. During the error, a connection confirmation message is indicated by the **[ITEM CORR]** key depression. At this time, the **[ITEM CORR]** key depression again will let the slip printer disconnected. The **[C]** key depression will remain the slip printer connected.



EPSON Remote Slip Printer TM-U295

11.44 When a Power Failure Occurs...

If a power failure occurs, all sales data stored in the memory are automatically protected by the battery installed in the ECR. The battery is rechargeable and it is recharged when the AC power returns. As the power returns, the ECR revives to continue the work and displays the last item entered before the power failure. However, please note the following phenomena to occur on the ECR when the power is regained:

1. The printer will work to print the entered data without failure after the power recovery, if any data was being printed. However, one extra line may be fed on the power recovery depending on the power-recovery timing.
2. The following are the display indications on the power recovery:

ECR CONDITION at the time of Power Failure		DISPLAY INDICATION on the Power Recovery
OUTSIDE A SALE	No key-in has been operated.	Displays zero. Operations may go on.
	Numeric or Declaration keys have been entered but not motorized keys.	Regains the display content that was obtained just before the power failure. The operations may be continued.
DURING A SALE	No Numeric or Declaration keys have been entered.	Regains the display content that was obtained just before the power failure. The operations may be continued.
	Numeric or Declaration keys have been entered.	

In case a power failure occurred during printing, after the power recovery, the power failure symbol "***" is printed in one line.

Example:

-- Journal Print Format --

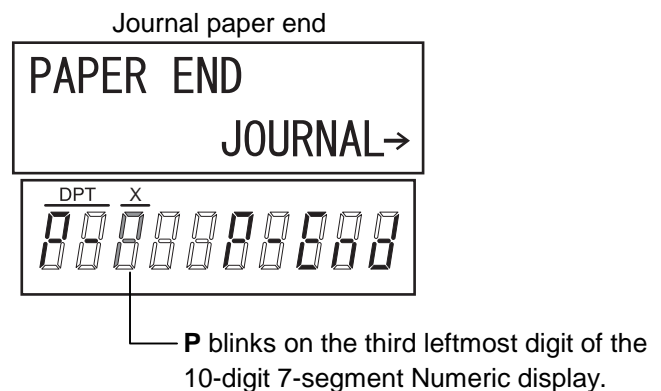
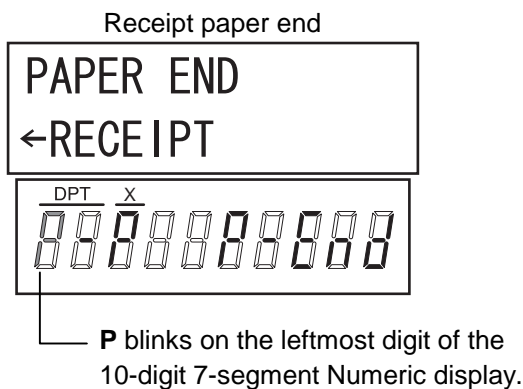
DP09	\$2.00
DP09	\$1.00

DP11	\$0.50
SUBTL	\$2.50
CASH	\$2.50
MI SC	\$3.00
CHANGE	\$0.50
ITEM 2	
JONES	0357 18:55TM

12. JOURNAL AND RECEIPT PAPER-END DETECTOR

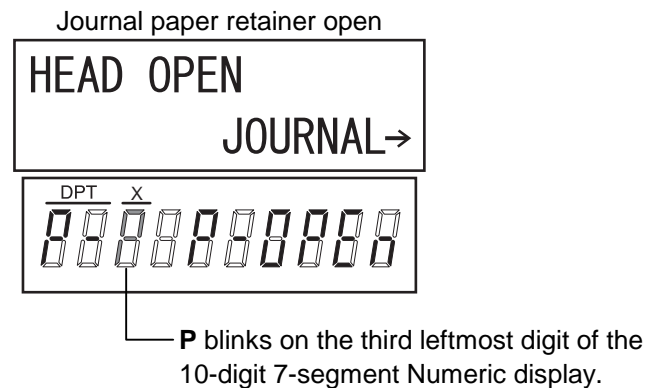
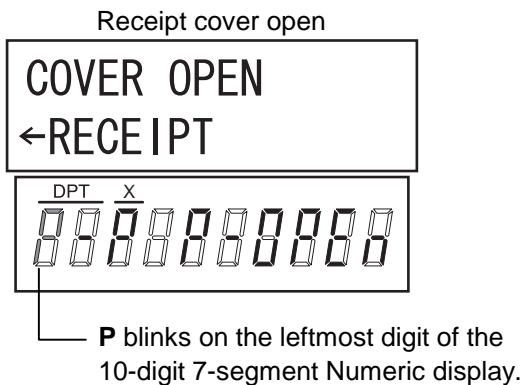
- (1) This detects when either the journal or receipt paper is coming near the end. It is provided in order to prompt the operator to replace the old paper roll with a new one.
- (2) When the paper roll is out (or the paper has not been set properly), no key operation will be accepted and the front display will indicate "PAPER END".
- (3) When a new paper roll is set, only the **[C]** key is allowed to operate. The error message "PAPER END" will be cleared by the **[C]** key depression and normal key-in operations will be accepted. If any printing was suspended, it will continue printing.
- (4) If this detector senses a paper-end condition during printing, the printing will stop after the current line printing is completed.
- (5) If the **[C]** key is depressed in the paper-end condition, it will be ignored. The **[C]** key depression will be effective to clear the error message only after the new paper roll is set.

(For further details, refer to Chapter 6.)



13. PRINTER HEAD OPEN DETECTOR

- (1) This detects the printer head open condition.
- (2) When such a condition is detected, the front display indicates "COVER OPEN" (on the receipt printer side) or "HEAD OPEN" (on the journal printer side) and none of the keys (including [RF] and [JF]) will be accepted.
- (3) Close the receipt cover or journal paper retainer.
- (4) The error message "COVER OPEN" (on the receipt printer side) or "HEAD OPEN" (on the journal printer side) will be cleared by the [C] key depression and normal key-in operations will be accepted.



14. REMOTE SLIP PRINTER MOTOR LOCK DETECTOR

- (1) This detects the remote slip printer motor lock condition caused by some trouble.
- (2) When such a condition is detected, the front display indicates "SLIP OFF LINE" and none of the keys (including [RF] and [JF]) will be accepted.

SLIP OFF LINE

- (3) To regain the normal condition, turn the powers of the ECR and the remote slip printer to OFF, remove the cause of the motor lock, and then turn the powers to ON again.

* If the cause cannot be found in the remote slip printer and only the ECR may be required to work temporarily without the remote slip printer, remove the remote printer cable from the ECR, and turn the power of the ECR to ON.

15. GENERAL MAINTENANCE

WARNING!

1. *DO NOT POUR WATER* directly onto the ECR, as this may cause electric shock or fire.
2. *The Journal Take-up Motor becomes very hot while printing. To avoid getting burned, never touch the Journal Take-up Motor.*
3. *Never touch the print head and around it just after printing. You may get burned as the print head becomes very hot during printing.*
4. *Carefully close the receipt cover so as not to catch your fingers. You may get injured.*
5. *Do not touch the cutter portion as you may get injured.*

CAUTION!

Never use an organic solvent like thinners or benzene for cleaning. Using such solvents may discolor the cover.

15.1 Cleaning the Covers

Wipe the covers with a soft dry cloth slightly moistened with mild detergent. After using detergent for cleaning, be sure to wipe it off with a slightly moistened cloth.

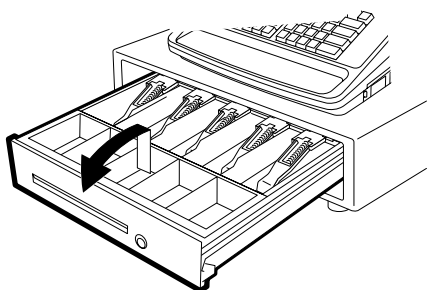
15.2 Removing Jammed Paper

- 1) Turn the power OFF and disconnect the power plug from the wall inlet.
- 2) Open the receipt cover or the journal cover.
- 3) Remove the jammed paper. **DO NOT USE** any sharp implement or tool as these will damage the printer.
- 4) Re-load the receipt roll. (Refer to Section 6.1 Installing/Replacing the Receipt/Journal Roll.)

15.3 When “VOLTAGE ERROR” is displayed...

When “VOLTAGE ERROR” is displayed, a hardware error including printer error could occur. In this case, immediately disconnect the power plug from the wall inlet the contact your nearest TOSHIBA TEC representative.

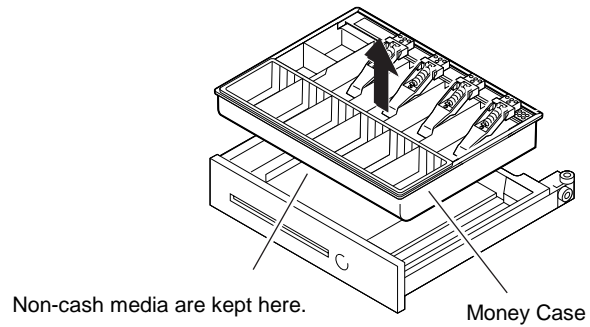
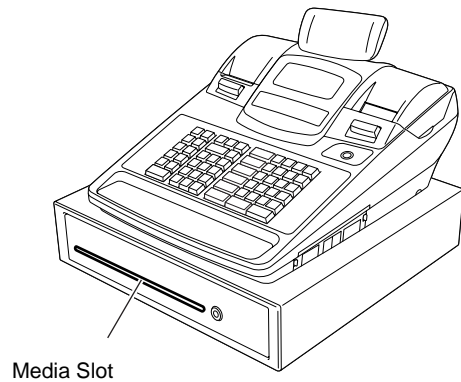
15.4 Removing the Drawer



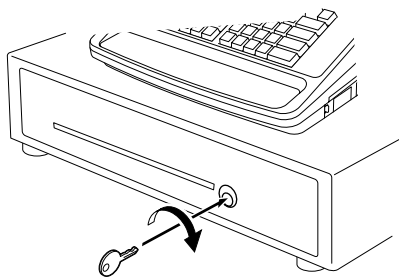
Open the drawer, then take the Money Case out.

15.5 Media Slot

The Media Slot provided at the front of the drawer is used to put non-cash media such as check in the drawer without opening it. The non-cash media put from this slot are kept under the Money Case, therefore you can keep them in secret.



15.6 Drawer Key



Insert the Drawer Release Key into the Drawer Release Lock, then turn the key clockwise. The drawer will now open. The Drawer Release Key can be taken out by returning it to the original position.

16. SPECIFICATIONS

ECR specifications

Item		Description
Size		460 mm (width) x 437 mm (depth) x 299 mm (height) (height including rubber feet) Height when the customer display is fully raised: 359 mm
Weight		Approximately 14.2 Kg
Power required		AC 117 V \pm 10 %; 60 Hz \pm 10 % (varies depending on the destination)
Power consumption		Standby: 8.2 W (0.12 A), Operating: 45 W (0.5 A)
Ambient temperature		0 °C to 40 °C, 10% to 90% relative humidity
Printer	Print method	Direct thermal print method
	Print speed	Max. 60 mm/sec.
	Printable digits	32 one-byte characters per line
	Receipt cutting method	Manual cutting method
Operator display	LCD display	192 x 64 dot LCD display tubes are adopted. SET, X, Z, BLIND mode: Up to 24 one-byte characters in four lines REG, MGR, [-] mode: Up to 16 one-byte characters in two lines
	Numeric display	10-digit 7-segment display is adopted. Color: Amount portion (Green) DPT and X portions (Yellow) Status lamps (Red or Green)
Customer display		7-digit 7-segment display is adopted. Color: Amount portion (Green) Status lamps (Red or Green)
Keyboard	Number of keys	Ordinary type keyboard: Max. 66 keys
		Flat type keyboard: Max. 106 keys
Drawer		460 mm (width) x 400 mm (depth) x 115 mm (height) (height including rubber feet)

Paper roll specifications (receipt and journal rolls)

Item	Description
Media	Thermal roll paper
Width	58 +0/-1 mm
Thickness	0.06 mm to 0.08 mm
Outside dimension	80 mm or less
Recommended thermal paper	<p>Only paper rolled onto a core is acceptable, however, the paper end should not be pasted to the core.</p> <p>Standard paper:</p> <p style="padding-left: 40px;">TF60KS-E (Nippon Paper Industries) PD150R (Oji Paper Co., Ltd)</p> <p>High-sensitive paper:</p> <p style="padding-left: 40px;">TF50KS-E4 (Nippon Paper Industries)</p> <p>Medium-term preserving paper:</p> <p style="padding-left: 40px;">TP60KS-F1 (Nippon Paper Industries) P220VBB-1 (MITSUBISHI PAPER MILLS LIMITED) PD170R (Oji Paper Co., Ltd)</p> <p>Long-term preserving paper:</p> <p style="padding-left: 40px;">TP50KJ-R (Nippon Paper Industries) PD152R (Oji Paper Co., Ltd) PD160R-N (Oji Paper Co., Ltd) AFP-235 (MITSUBISHI PAPER MILLS LIMITED) HA220AA (MITSUBISHI PAPER MILLS LIMITED)</p>

MANAGER'S GUIDE

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1. OPERATIONS IN “MGR” MODE

This chapter describes operations to be performed in the “MGR” position of the Mode Lock, which the manager can access using the **MGR** or **MA** key.



1.1 Items Programmed to Require Manager Interventions

During daily sale entry operations, the cashier may call for Manager Interventions. The following is the operation flow of a Manager Intervention.

1) During operations, the cashier comes across an item that requires a Manager Intervention. The cashier, already informed of it, may immediately call for a Manager Intervention. Or the cashier, without knowing of it, attempts the operation but an error occurs. He/She clears the error by the **[C]** key, and then calls for a Manager Intervention.



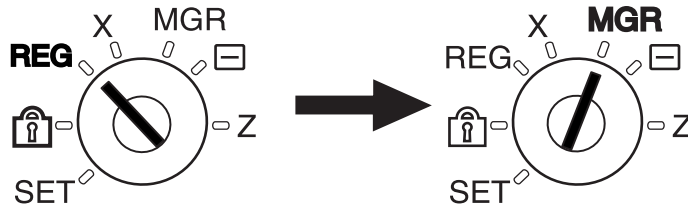
2) The manager goes to the cashier counter with the **MGR** or **MA** key.



3) The cashier explains what kind of operation is attempted, and removes the **REG** key from the Mode Lock at the “**REG**” position.



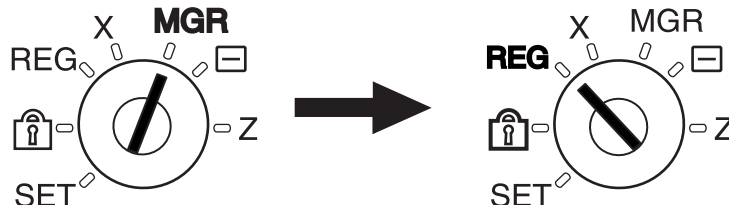
4) The manager inserts the **MGR** or **MA** key and turns it to the “**MGR**” position.



5) The cashier operates the required item.



6) The manager returns the **MGR** or **MA** key to the “**REG**” position and pulls it out.



7) The cashier sets the **REG** key to the “**REG**” position again and continues registering operations.

The following is the table of the keys and operations that are programmable with Manager Intervention. Fill in the table by marking in the “Not Required” or “Required” column of each item, referring to the documents, etc. listed in the table.

KEYS/OPERATIONS AND MANAGER INTERVENTION STATUS TABLE

Key	Manager Intervention		Reference
	Not required	Required	
[DOLL DISC]			As for changing the key status, ask your TOSHIBA TEC representative.
[VND CPN]			
[STR CPN]			
[%] ([% I] , [% II])			
[RTN MDSE]			
[VOID]			
[PO]			
[EX]			
[NS]			
[ALL VOID]			
[1st PRICE]			
[2nd PRICE]			
[3rd PRICE]			
Credit Balance (NOTE 1 below)			These are program options for each store. Ask your TOSHIBA TEC representative for information and these status changes.
Negative-balance Sale Finalization by Media Keys (except [AT/TL]) (NOTE 2)			
Negative Department or negative PLU Entries (NOTE 3)			

NOTES:

1. The “Credit Balance” means that amount entries through **[DOLL DISC]**, **[VOID]**, **[VND CPN]**, **[STR CPN]** will result in over-subtraction of the subtotal amount at the time of the entry through any of those keys. If the status “Not required” is selected, over-subtraction using these keys will be allowed in the “REG” mode. The **[RTN MDSE]** key, negative departments, and negative PLUs are not subject to this “Credit Balance” status selection.
2. The “Negative-balance Sale” may be caused by:
 1. Credit Balance if “Not required” is selected as the above Credit Balance status.
 2. Amounts entered through the **[RTN MDSE]** key.
 3. Amounts entered through negative departments or negative PLUs.
 4. Other negative amounts.
3. The “Negative Departments or PLUs” are the Departments/PLUs programmed as negative status, but not normal Departments/PLUs through which Store Coupon or Returned Merchandise amounts are entered.

1.2 Other Operations Required Manager Interventions

Listing Capacity or Amount Limit Release

Amount Limits may be programmed on Departments/PLUs, Tender Medias, [DOLL DISC], [VND CPN], [STR CPN]. These limits are programmed to check an excessively high or low amount entry by cashier’s mistake at the earliest stage. Guide your cashiers as in the following procedure:

- (1) During sale entries by the cashier, an error occurs with Error Message “OPERATION ERROR” (programmable) is displayed.
- ↓
- (2) The cashier clears the error by the [C] key. The cashier confirms the amount and operates the item again.
- ↓
- (3) If the same error occurs again, the cashier attempts to enter the amount using the [OPEN] or [LC OPEN] key.
- ↓
- (4) If the operation results in an error again, the Amount Limit cannot be solved by the [OPEN] or [LC OPEN] key.
- ↓
- (5) The cashier calls for Manager Intervention.

The procedure thereafter is the same as Steps 2) to 7) for the Items Programmed to Require Manager Interventions (Section 1.1).

In need of information of Amount Limits, ask your TOSHIBA TEC representative.

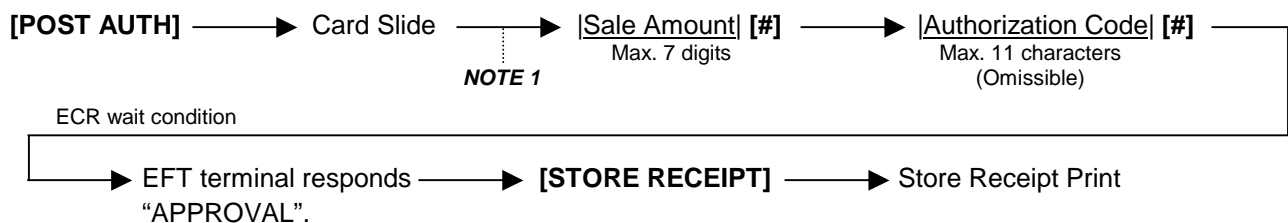
1.3 Post Authorization Operation

This operation is used for finalizing the EFT sale transaction which was authorized on the off-line ECR.

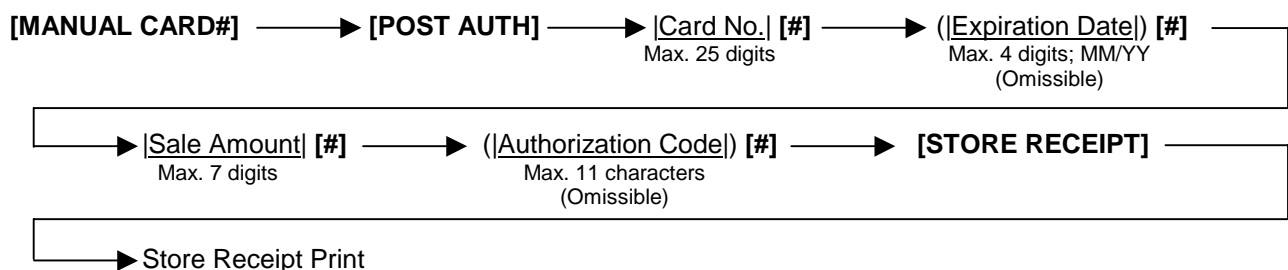
CONDITION Any time outside a sale, In a Signed-ON condition

OPERATION Mode Lock: **MGR**

- Without Card Number Entry



- With Card Number Entry



NOTES:

1. Pressing the **[C]** key at this point will restore the ECR to condition being ready for the **[POST AUTH]** key entry.
2. Training cashiers are unacceptable to the EFT terminal.
3. Values 0 to 9 and A to Z should be used to enter the Authorization Code.

Keyboard layout for the Authorization Code entry
-- Ordinary Keyboard Type --

					A	F	K	P	U	
		C			B	G	L	Q	V	
		7	8	9	C	H	M	R	W	
		4	5	6	D	I	N	S	X	
#		1	2	3	E	J	O	T	Y	
		0						Z		

-- Flat Keyboard Type --

											C				
										#	7	8	9		
Q	W	E	R	T	Y	U	I	O	P		4	5	6		
A	S	D	F	G	H	J	K	L			1	2	3		
Z	X	C	V	B	N	M					0				

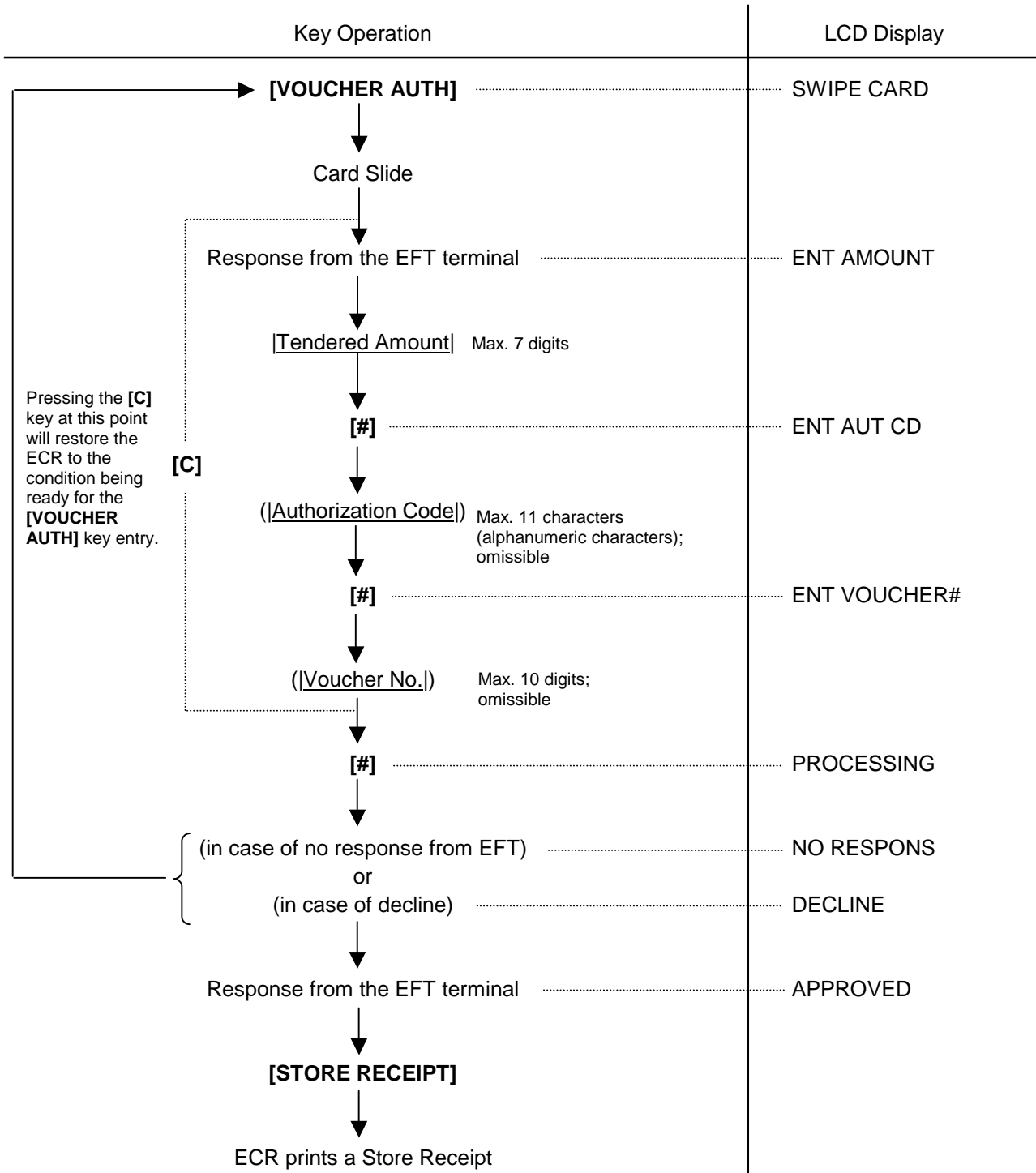
4. None of customer receipt is issued by the Post Authorization operation.

1.4 EBT F/S Electronic Voucher Purchase

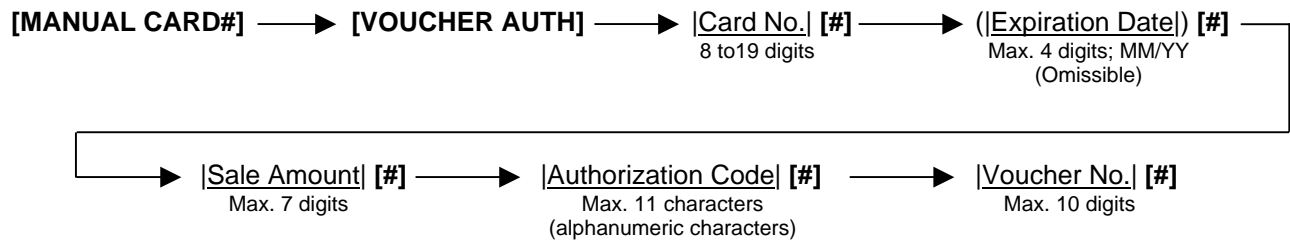
In this operation, a sale entry with EBT card is performed on the off-line ECR when the network is down, then the sale transaction is authorized after the network recovery. (This operation is used for the EBT food stamp.)

- CONDITION** Any time outside a sale, In a Signed-ON condition
- OPERATION** Mode Lock: **MGR**

• Without Card Number Entry



- With Card Number Entry

**NOTES:**

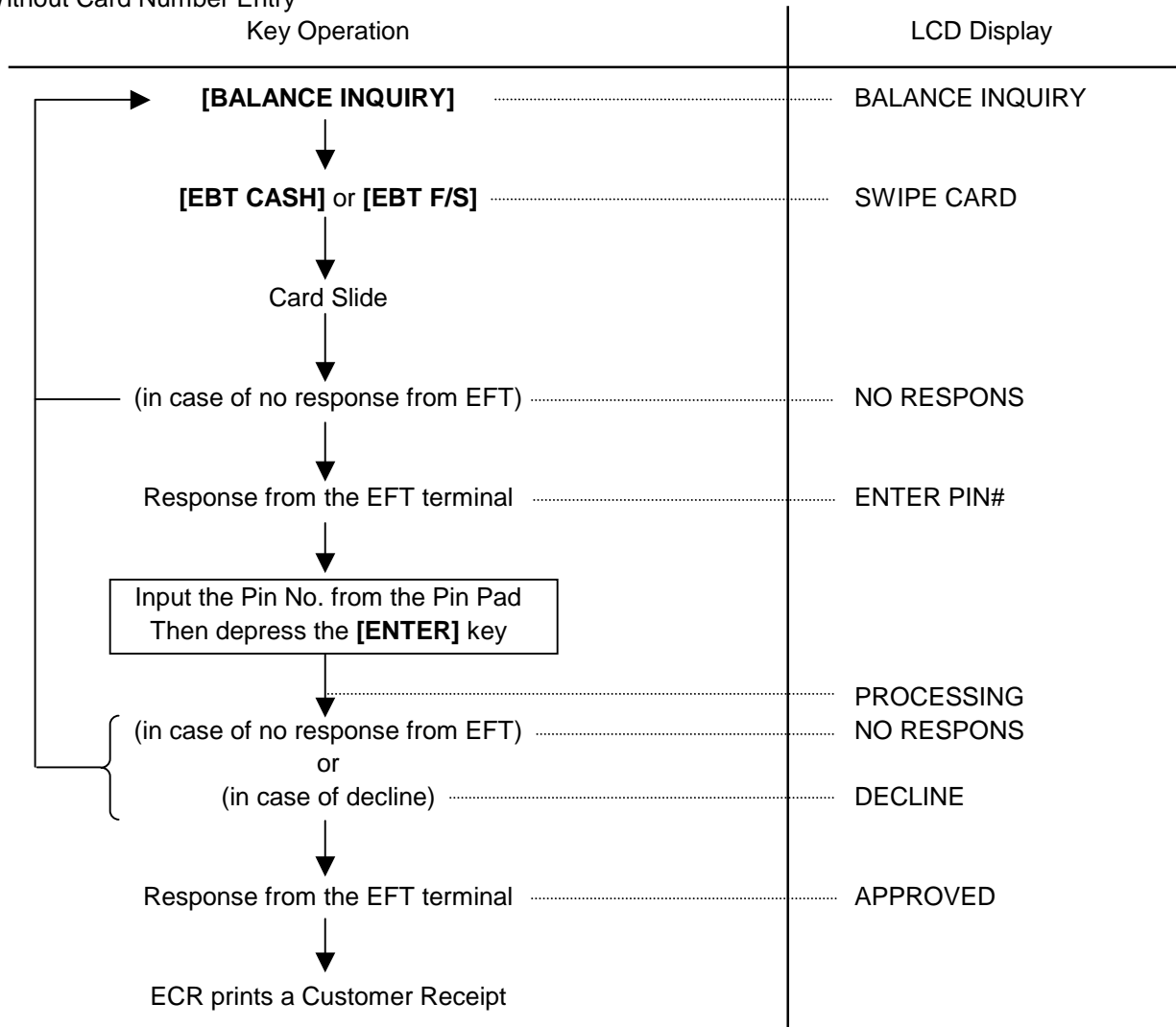
1. It is possible to cancel this operation prior to the inquiry to the host (i.e. before the message “PROCESSING” is displayed).
2. Training cashiers are unacceptable to the EFT terminal.
3. Values 0 to 9 and A to Z should be used to enter the Authorization Code. Please use the keyboard layout for the authorization code entry. (See **Section 1.3 Post Authorization Operation, Manager’s Guide.**)
4. None of customer receipt is issued by the EBT F/S Electronic Voucher Purchase operation.
5. The Validation Print operation is not possible after performing the EBT F/S Electronic Voucher Purchase operation.

1.5 EBT CASH, EBT F/S Balance Inquiry

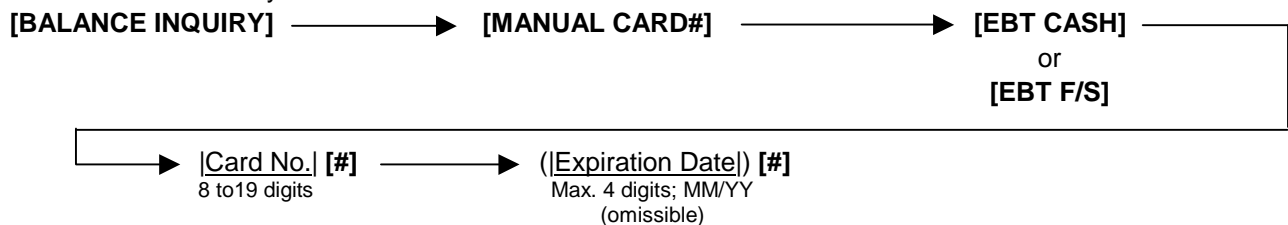
This operation is used for inquiring the balance to the host.

- CONDITION** Any time outside a sale, In a Signed-ON condition
- OPERATION** Mode Lock: **MGR**

• Without Card Number Entry



• With Card Number Entry



NOTES:

1. It is possible to cancel this operation prior to the inquiry to the host (i.e. before the message "PROCESSING" is displayed).
2. Training cashiers are unacceptable to the EFT terminal.
3. None of store receipt is issued by the EBT CASH, EBT F/S Balance Inquiry operation.
4. The Validation Print operation is not possible after performing the EBT CASH, EBT F/S Balance Inquiry operation.

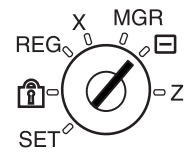
2. OPERATIONS IN “[-]” MODE

Instead of using the [RTN MDSE] or [VOID] key in the “REG” or “MGR” mode for deleting individual items, the “[-]” mode automatically processes positive items into negative and negative into positive.

To operate, turn the Mode Lock to the “[-]” position using the MA key, and enter the items, one by one, just as in the “REG” mode, as reading the sale receipt (issued at the time of the purchase) or tracing the returned items as if in the “REG” mode.

A positive balance resulted in the “[-]” mode indicates the amount to be paid back to the customer.

The “[-]” mode operation may occur from time to time during day, on the cashier’s request, just as in the case of ordinary Manager Interventions, when a customer comes to the cashier counter to return or cancel all the items that were once purchased and finalized (in which case the All Void operation is no longer effective).



2.1 Ordinary Operations In “[-]” Mode

OPERATION AND RECEIPT SAMPLE

RECEIPT ISSUED IN “REG” or “MGR” MODE

TEC STORE 1343 PEACH DRIVE PHONE: 87-6437 Open 8:00am to 7:00pm Closed: every Wednesday 10-20-2006 FRI #3001 VEGETABLE \$2.50 DP02 \$2.50 %- 5% -0.13 CASH \$4.87 I TEM 2 JONES 0375 08:47TM	
--	--

These two receipts contain the same sale items and media finalization. The operations are also the same except the Mode Lock position.

The cashier merely follows the purchase receipt (on the left) and enters the same items in the [-] position, finalizing with the same media in case a customer has returned or canceled the entire sale after the cashier had finalized that sale.

The [-] mode header (* REG- * in this example) is printed at the top and the bottom of the sale contents in the [-] mode receipt.

RECEIPT ISSUED IN “[-]” MODE

TEC STORE 1343 PEACH DRIVE PHONE: 87-6437 Open 8:00am to 7:00pm Closed: every Wednesday 10-20-2006 FRI #3001 ***REG- VEGETABLE \$2.50 DP02 \$2.50 %- 5% -0.13 CASH \$4.87 I TEM 2 ***REG- JONES 0376 08:49TM	
--	--

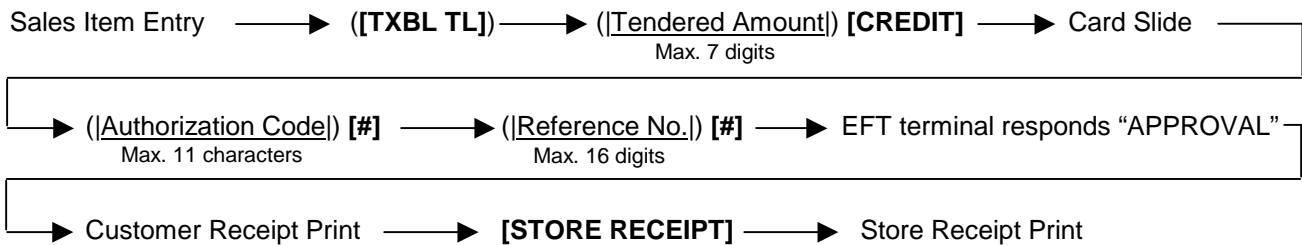
NOTE: In the “[-]” mode the Listing Capacities and the status requiring Manager Intervention will all be released, i.e., the same handling as in “MGR” mode.

2.2 Electronic Fund Transfer (EFT) Operation In “[-]” Mode

(1) Void Credit Sale

This operation is performed for canceling credit sale transactions.

OPERATION



(2) Void Credit Refund

This operation is performed for canceling credit refund transactions.

OPERATION

[RTN MDSE] to be continued to the top of “Void Credit Sale” sequence

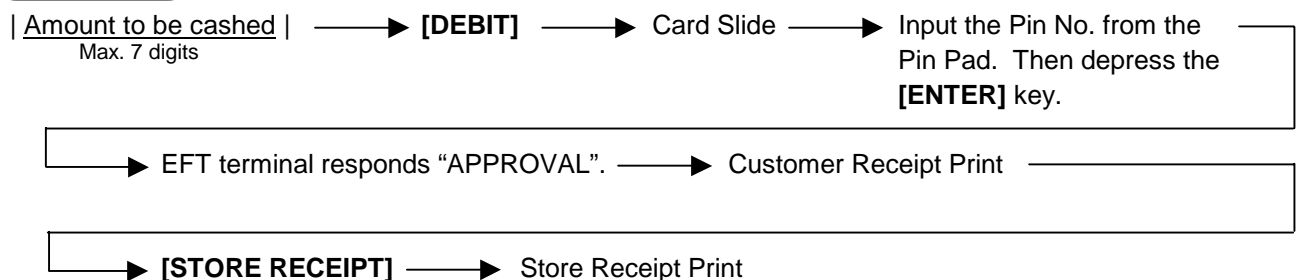
NOTES:

1. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
2. Key operation on the ECR is unavailable during the inquiry to the host.
3. Values 0 to 9 and A to Z should be used to enter the Authorization Code. Please use the keyboard layout for the authorization code entry. (See **Section 1.3 Post Authorization Operation, Manager's Guide.**)
4. In the Receipt-OFF mode, payment by the EFT media cannot be made.
5. The Validation Print operation is not possible after performing the Void Credit Sale or the Void Credit Refund operation.

(3) Cashing Debit Refund

This operation is performed for canceling debit cashing transactions.

OPERATION



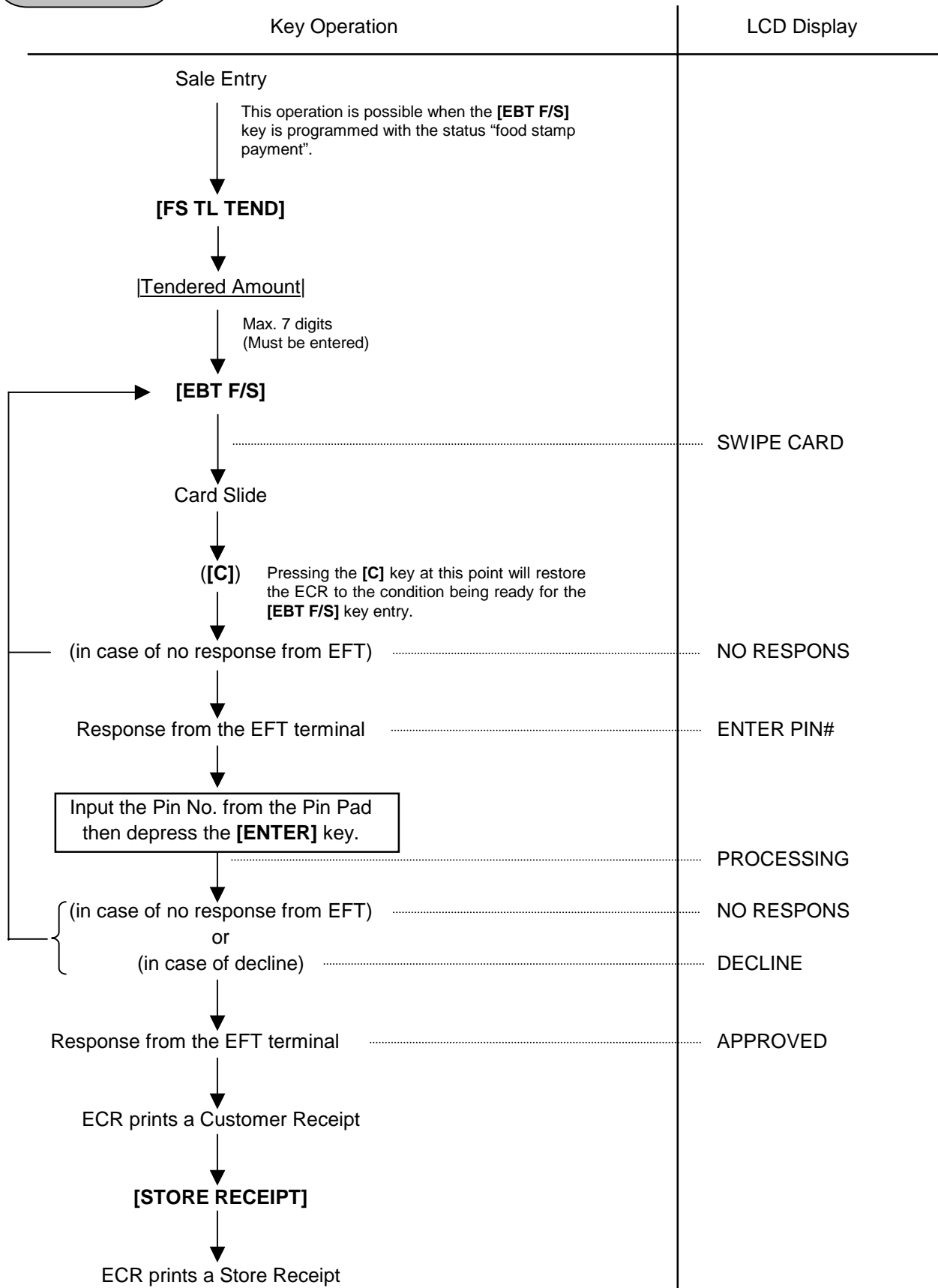
NOTES:

1. Before performing this operation, the **[DEBIT]** key should be programmed with the status “no-purchase cashing is allowed”. Also each EFT Media Key should be programmed with the status “with EFT process”. Failure to do this may cause an error.
2. For the EFT function, do not perform any registration in Receipt OFF mode.
3. Receipt post-Issue operation after the Cashing Debit Refund is unavailable.
4. Key operation on the ECR is unavailable during the inquiry to the host.
5. Training Cashiers are unacceptable to the EFT terminal.
6. Store receipt must be issued to perform next transaction or read/reset jobs.
7. The Validation Print operation is not possible.
8. EFT cashing operation with the **[CREDIT]**, **[CHECK TEND]**, and **[EBT F/S]** keys is not possible.

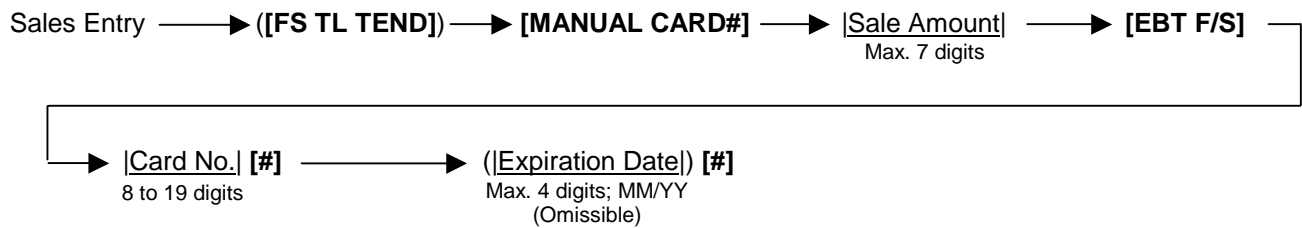
(4) EBT F/S Return

This operation is performed for canceling EBT F/S transaction.

OPERATION



- Manual Entry
(when the [EBT F/S] key has been programmed with the status “food stamp payment”).

**NOTES:**

1. Receipt post-Issue operation after finalizing a sale by the EFT is unavailable.
2. Key operation on the ECR is unavailable during the inquiry to the host.
3. Contents of the customer receipt are printed on the journal, but those of the store receipt are not.
4. Sale finalization by the EFT is possible only when the media key has been programmed with the status “EFT media” in the EFT key status setting. If not, ordinary sale finalization is performed.
5. Training cashiers are unacceptable to the EFT terminal. (Ordinary finalization operation can be performed.)
6. Issuance of the store receipt is selectable by the EFT key status setting.
7. When tendering in foreign currency, the EFT media keys are not accepted.
8. For the EFT function, do not perform any registration in Receipt OFF mode.
9. Store receipt must be issued to perform next transaction or read/reset jobs.
10. Validation Print operation at the EBT F/S Return operation is prohibited.

2.3 Prohibitive Operations In “[-]” Mode

- NO-SALE ([NS])
- NO-SALE CASHING OF CHEQUE OR OTHER NON-CASH MEDIAS
- NO-SALE EXCHANGE from Foreign Currency to Domestic Currency, or vice versa
- TRAINING MODE START/END
- RECEIPT POST-ISSUE ([RECEIPT ISSUE])
- CONSIGNMENT PRINT [CONSIGNMENT]
- VALIDATION PRINT [VALIDATE]

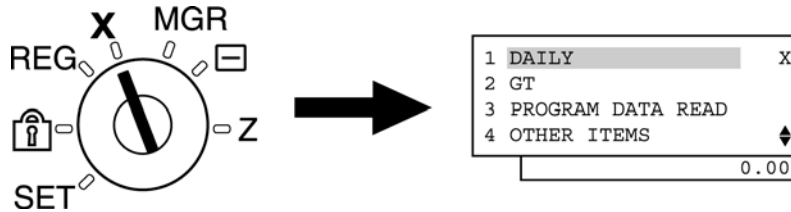
3. READ (X) AND RESET (Z) REPORTS

WARNING!

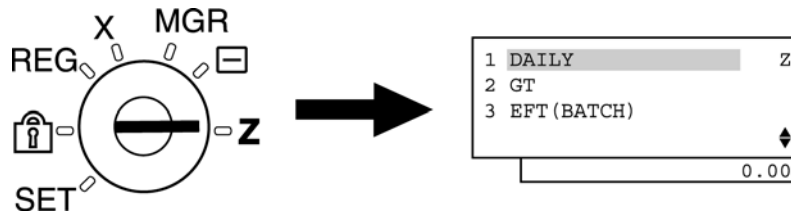
When opening the cash drawer, be careful not to let the drawer hit any person.

This chapter describes how to issue X and Z reports and how to read issued receipts. The X report is issued in X mode and the Z report is in Z mode. By turning the Mode Lock to the **X** or **Z** position, the menu below is displayed, respectively.

In X mode



In Z mode



- **X Report**
By taking an X report, sales data in a store is consolidated according to department, PLU, hourly range, and cashier, and cash in drawer is confirmed. Even if the X report is issued, the data such as sale total, customer count, and item count are protected so that this report can be issued many times a day.
- **Z Report**
The Z report is issued at the time of closing the sale of the day after closing the store. By issuing a Z report, the data stored in the ECR such as sale total, customer count, item count of the day are deleted, but they are stored in the GT memory.

The X and Z reports have exactly the same print content if both are available, except that:

1. The X reports allow to read the sales data but not clear memories, while the Z reports allow to read the sales data and at the same time all the resettable memories will be cleared when the reports have been issued.
2. The symbol "X..." is printed on the top line of a Daily Read Report, "Z..." on a Daily Reset Report, "GTX..." on a GT Read Report, and "GTZ..." on a GT Reset Report, as initial settings.
3. A reset count is printed on the bottom of a Z report only.

GT Reports

The print form and items of a GT report are the same as those of its corresponding daily report, except the report header portion. Please also note that some items provided in the daily report are not provided in its GT reports. The counters and totals in a GT report are records accumulated for a certain period (week, month, etc.) while those counters and totals in the daily report are usually records for a day. The accumulated record data in each GT report will be renewed when its GTZ report has been taken.

Header Example



3.1 Enabling Read (X) or Reset (Z) Mode

The issuance of the read (X) report or reset (Z) report is selected from the corresponding menu item which is displayed on the LCD display with the [↑] or [↓] key.

For issuing a read (X) report, turn the Mode Lock to the **X** position with the **MGR** or **MA** key. For issuing a reset (Z) report, turn the Mode Lock to the **Z** position with the **MGR** key.

On the MA-600 series, the keyboard layout is automatically changed in three types according to operation to be performed (ordinary registration, read/reset, programming). The following shows keyboard layouts and functions of keys required for read/reset operation when the Mode Lock is turned to **X** or **Z** position.

Keyboard layout for read/reset

Mode Lock Position: **X** for read, **Z** for reset

• Ordinary Type Keyboard

↑			RF	JF											
↓		C													
←	Rtn	7	8	9											
→	@/FOR	4	5	6											
Enter		1	2	3											
		0	00	.											
									ST	End					

• Flat Type Keyboard

															RF	JF
												↑	↓	←	→	
												C		@/FOR	Rtn	Enter
												5	8	9		
												4	5	6		
												1	2	3	ST	
									PLU			0	00	.	End	

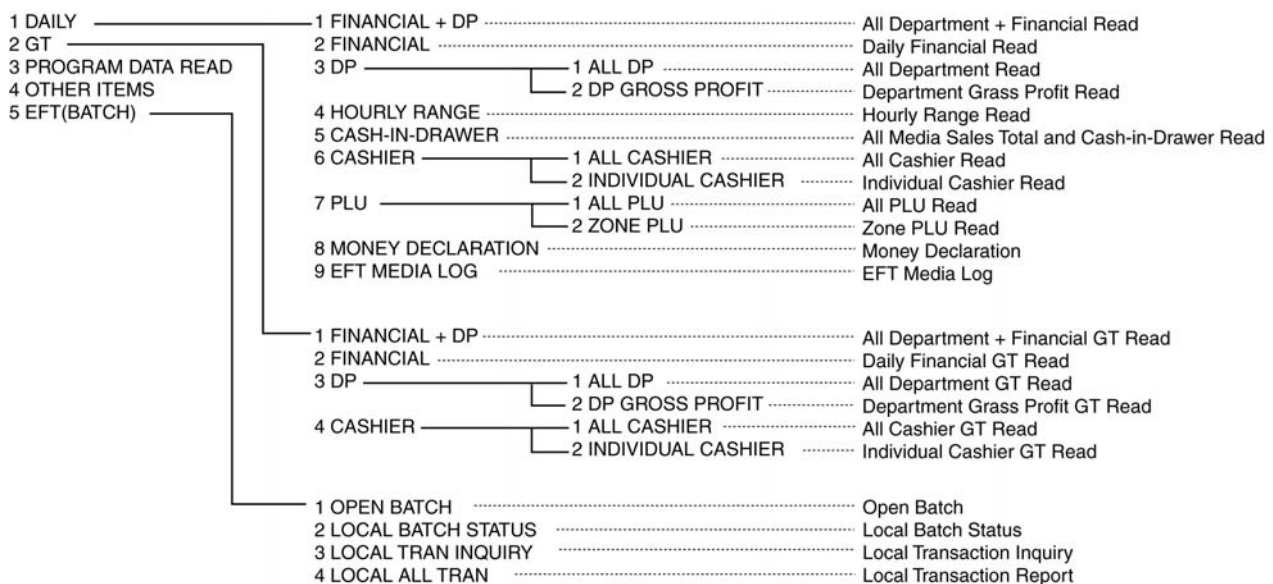
Functions of keys required for read/reset

Key	Function
[↑]	This key is used for moving the cursor upward.
[↓]	This key is used for moving the cursor downward.
[←]	This key is used for moving the cursor leftward.
[→]	This key is used for moving the cursor rightward.
[Enter]	This key is used for selecting a desired item after moving the cursor.
[Rtn]	This key is used for returning the display to the previous screen.

Read/Reset Menu Table

Report Name	X	Z	GTX	GTZ
ALL DEPARTMENT + FINANCIAL READ/RESET	O	O	O	O
FINANCIAL READ/RESET	O	O	O	O
ALL DEPARTMENT READ/RESET	O	O	O	O
DEPARTMENT GROSS PROFIT READ	O		O	
HOURLY RANGE READ/RESET	O	O		
ALL MEDIA SALESTOTAL AND CASH-IN-DRAWER READ	O			
ALL CASHIER READ/RESET	O	O	O	O
INDIVIDUAL CASHIER READ/RESET	O	O	O	O
ALL SALES PERSON READ/RESET	O	O		
ALL PLU READ/RESET	O	O		
ZONE PLU READ/RESET	O	O		
MONEY DECLARATION	O	O		
EFT MEDIA LOG	O			
EFT BATCH	O	O		

• Read menu



• Reset menu

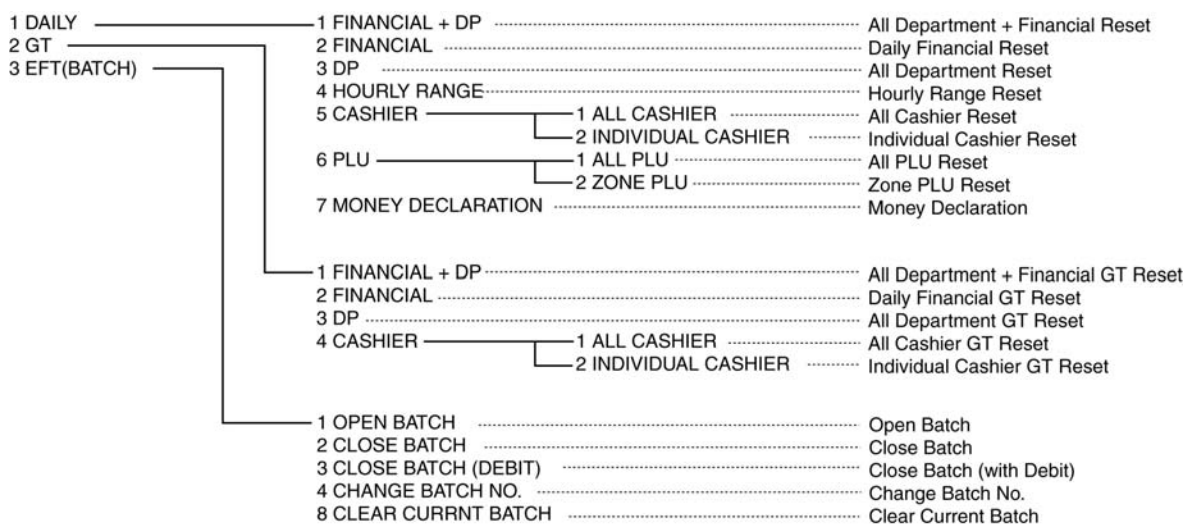


TABLE OF OPERATIONS FOR X AND Z REPORTS**Daily Reports**

Report Name	Mode Lock	Sample Page
ALL DEPARTMENT AND FINANCIAL READ AND RESET • All Department and Financial Read • All Department and Financial Reset	X Z	---
FINANCIAL READ AND RESET • Financial Read • Financial Reset	X Z	3-6
DEPARTMENT READ AND RESET • All Department Read • All Department Reset • Department Gross Profit Read	X Z X	3-8
HOURLY RANGE READ AND RESET • Hourly Range Read • Hourly Range Reset	X Z	3-10
ALL MEDIA SALES TOTAL AND CASH-IN-DRAWER READ	X	3-11
CASHIER READ AND RESET • All Cashier Read • All Cashier Reset • Individual Cashier Read • Individual Cashier Reset	X Z X Z	3-12 to 3-13
PLU READ AND RESET • All PLU Read • All PLU Reset • Zone PLU Read • Zone PLU Reset	X Z X Z	3-14 to 3-15
EFT MEDIA LOG READ AND RESET • EFT Media Log Read	X	3-18

GT Reports – to be taken on weekly or monthly basis --

Report Name	Mode Lock	Sample Page
ALL DEPARTMENT AND FINANCIAL GT READ AND RESET • All Department and Financial GT Read • All Department and Financial GT Reset	X Z	---
FINANCIAL GT READ AND RESET • Financial GT Read • Financial GT Reset	X Z	3-6
DEPARTMENT GT READ AND RESET • All Department GT Read • All Department GT Reset • Department Gross Profit GT Read	X Z X	3-8
CASHIER GT READ AND RESET • All Cashier GT Read • All Cashier GT Reset • Individual Cashier GT Read • Individual Cashier GT Reset	X Z X Z	3-12 to 3-13

3.2 General Notes On Report Takings

1. Daily Financial + All Department Read/Reset Report can be taken by only depressing the **[AT/TL]** key just after the Mode Lock is turned to the "X" or "Z" position.
2. Reset reports will be printed on the receipt roll as well as on journal, and issued, regardless of the current Receipt-ON/OFF status.
3. The **[ITEM CORR]** (or **[VOID]**) key may be depressed halfway during printing a report, for the purpose to abort the receipt issuance (except for some short reports). When a report-abort has been operated for a reset report, the memory of the report data will not be cleared.
4. The sales data of the following read reports will be cleared when the relevant reset reports are cleared. If those read reports are necessary, please be certain to take them before the relevant reset reports are taken:

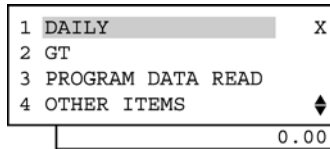
READ REPORT (with no reset reports provided)	RELEVANT RESET REPORT that clears the read report data
Department Gross Profit Read	All Department Reset
All Media Sales Total and Cash-in-drawer Read	Financial Reset
Department Gross Profit GT Read	All Department GT Reset

As you notice, "Financial Reset", "All Department Reset", and "PLU Reset" reports should be taken after all other reports (particularly read reports) on the respective levels of daily and GT, so that the required read reports data may not be cleared by those reset report takings.

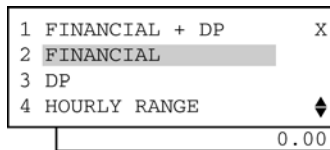
Financial Read or Reset (Daily or GT)

Read Report Sample

- Operation: Mode Lock: **X** for read
Z for reset



When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



Select **"FINANCIAL"** with the **[↓]** or **[↑]** key, then depress the **[2]** or **[Enter]** key.

TEC STORE	
1343 PEACH DRIVE PHONE: 87-6437	
Open 8:00am to 7:00pm Closed: every Wednesday	
10-20-2006 FRI #3001	
X_F I N A N C I A L	
GT	\$346.77
NET GT	\$309.09
GS	125
	\$346.77
NS	112
	\$300.48
TAX1	\$17.20
TAX5	\$0.50
NS	112
	\$318.18
HASH DP	1
	\$1.40
%-	4
	\$2.34
V. CPN	1
	\$4.00
DI SC	1
	\$1.00
TOTAL	71CU
	\$310.49
CASH	71CU
	\$292.77
CHECK	1CU
	\$5.00
FS TL	1CU
	\$12.72
R/A	2
	\$8.00
PO	8
	\$37.10
CASH I D	\$95.02
* CHECK I D	2
	\$15.00
* FS I D	1
	\$13.00
* FS CG	\$0.28

NOTES:

1. The numeric values placed in reports in this manual are merely examples to show the print format and may not balance correctly.
2. The items attached with "*" outside the receipt frame are printed only on Daily Reports but not on GT Reports.
3. The print or non-print status of each item on Financial Reports can be programmed.
4. Non-printing of items with zero sales (i.e., zero skip) can be programmed by a program option.

Date, Day-of Week, Store/Register No.

Report Name

Grand Total (non-resettable)	
Net GT (non-resettable)	
Gross Sale Item Count	
& Amount	
Net Sale Without Tax Item Count	Percent Charge I, II Count & Amount
& Amount	
Tax 1 Amount	Tax 2 to 4 Amount
Manual Tax Amount	
Net Sale With Tax Item Count	
& Amount	
Total of Positive Departments programmed as HASH Dept., Item Count	
& Amount	
Percent Discount (on Subtotal) Count	Total of Negative Departments programmed as HASH Dept., Item Count & Amount
& Amount	
Vendor Coupon Count	Percent Discount II (on Subtotal) Count & Amount if two Percent Discount keys are installed.
& Amount	
Dollar Discount (on Subtotal) Count	
& Amount	
All-media Sales (including CASH, FS TL, and PB TL)	
Customer Count & Amount	
Cash Sales	
Customer Count & Amount	
Check Sales	
Customer Count & Amount	Additional Media (MISC, CREDIT, DEBIT, etc.) Sales data, if any
Food Stamp Sales	
Customer Count & Amount	
Received-on-Account Count	
& Amount	
Paid-Out Count	
& Amount	
Cash-in-drawer Amount	* Loan Amount, Pick Up Count & Amount
Check-in-drawer Count	
& Amount	
Food Stamp-in-drawer Count	* Additional Media-in-drawer data, if any
& Amount	
Food Stamp Change Amount	

-- To be continued --

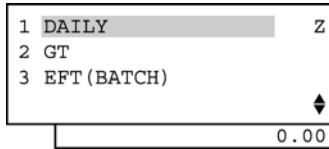
(Financial Read or Reset)

-- Continued --

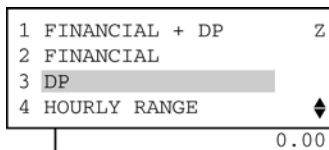
CORR	1	Item Correct (on positive Depts/PLUs) Count	
	\$1.00	& Amount	
VOID	1	Void Count	
	\$1.00	& Amount	
ALL VD	2	All Void Count	Miscellaneous Void Count & Amount
	\$8.60	& Amount	
%-	11	Percent Discount (on Line Items) Count	
	\$2.02	& Amount	
DISC	4	Dollar Discount (on Line Items) Count	Percent Discount II (on Line Items) Count & Amount if two Percent Discount keys are installed.
	\$2.00	& Amount	
S. CPN	2	Store Coupon Item Count	
	\$1.00	& Amount	
-DP TL	1	Negative Departments Item Count	
	\$1.00	& Amount	
RTN	4	Returned Merchandise Item Count	
	\$3.80	& Amount	
-TAX		Negative Tax Amount	
-SALE	4CU	Negative-balance Sales	
	\$5.37	Customer Count & Amount	
REG-	2	Negative Mode (" - " Mode) Count	
	\$7.95	& Amount	
TRF TL		Transfer GT Balance	Transfer + GT
TRF-GT		Transfer - GT	Transfer + Daily
TRF-		Transfer - Daily	
PB TL	1CU	Previous Balance Sales	
	\$0.00	Customer Count & Amount	Previous Balance R/A, PO Amount
TXBL1	\$284.98	Taxable Total 1 (Sale Amount Portion subject to Tax 1 taxation)	
TXBL2	\$58.20	Taxable Total 2 (Sale Amount Portion subject to Tax 2 taxation)	Taxable Total 3, 4
TAX EX	1CU	Tax Exempted Customer Count	
TAX1EX	\$10.00	Sale Portion Exempted from Tax 1	Sales Portion Exempted from Tax 2 to 4 FS EX1 to FS EX4 for Taxes exempted by tendering food stamps if ILLINOIS or NEW JERSEY type of food stamp system
* CUR 1	3		
	150.00		
* CUR 2	1	The amounts are expressed in the respective currencies' unit	
	5.68		
* CUR 3	1		
	1.45		
ITEM/CUS	1.58	Sales Item Count per Customer	* Foreign Currencies 4 & 5-in-drawer data if opened.
NS/CUS	\$4.23	Net Sale Amount per Customer	
* NO SALE	3	No-sale Count	Off-line EFT Authorization Count & Amount (for EFT spec.)
* VALI CTR	3	Validation Count	
* CONSI GN CTR	2	Consignment Count	
0001Z		Financial Reset Report Count (on Reset Reports only)	
	9999 19:00TM	Receipt Consecutive No., Current Time	

**All Department Read or Reset (Daily or GT)
Reset Report Sample**

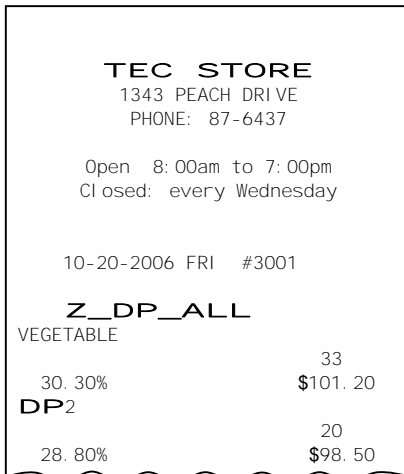
- Operation: Mode Lock: **X** for read
Z for reset



When the ECR is being outside a sale and in **Z** mode, depress the **[1]** or **[Enter]** key.



Select "**DP**" with the **[↓]** or **[↑]** key, then depress the **[3]** or **[Enter]** key.



NOTES:

1. Sales % or Customer Count is selectable by the program option. This report sample shows sales %.
2. For the read report, department group data printing is selectable by the program option. It is not printed as standard. For the reset report, it printed regardless of the program option setting.

Department Data ↓

Dept. 1 Name
Item Count
Sales % (or Customer Count), Amount (**NOTE 1**)
Dept. 2 Name
Item Count
Sales % (or Customer Count), Amount

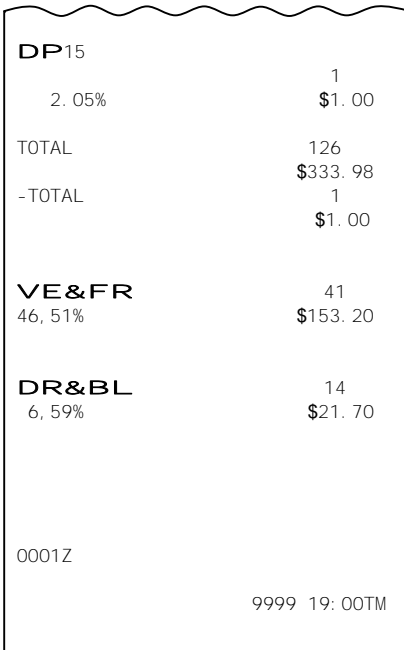
Dept. 15 Name:
Item Count
Sales % (or Customer Count), Amount

Item Count } of positive departments
Amount }
Item Count } of negative departments
Amount }

Department Group Data ↓ (NOTE 2)

Group Name, Item Count
Sales Percentage & Amount

Reset Report Count (on Reset Reports only)

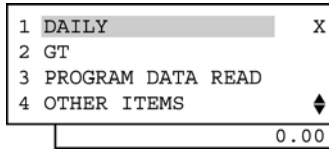


Department Gross Profit Read (Daily or GT)

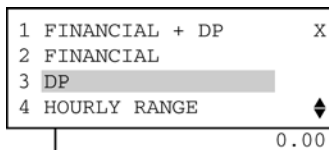
(Read only)

Read Report Sample

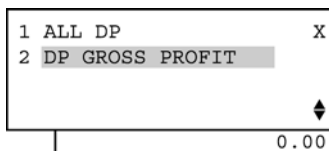
- Operation: Mode Lock: **X** for read



When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



Select "**DP**" with the **[↓]** or **[↑]** key, then depress the **[3]** or **[Enter]** key.



Select "**DP GROSS PROFIT**" with the **[↓]** or **[↑]** key, then depress the **[2]** or **[Enter]** key.

TEC STORE		
1343 PEACH DRIVE		
PHONE: 87-6437		
Open 8:00am to 7:00pm		
Closed: every Wednesday		
10-20-2006 FRI #3001		
X_PROFIT		
DAIRY	20.05%	\$45.00
FISH	14.35%	\$18.00
FRUIT	12.5%	\$12.00
MEAT	15%	\$10.48
VEGETABLE	10%	\$10.26
CAN FOOD	25%	\$6.09
BAKERY	23%	\$6.19
DRINK	18%	\$3.38
BTL FOOD	21.4%	\$2.87
SNACK	17%	\$0.77
DP	14%	\$0.42
SPICE	11%	\$0.07
TOTAL	16.23%	\$329.38
9999 19:00TM		

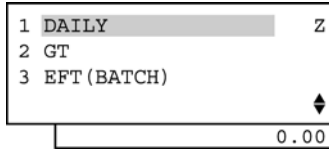
Department Name
Gross Profit Rate (%)
& Gross Profit Amount

(The print order is from the Departments of larger Gross Profit Amount to Departments of less. Departments with no sales or No Gross Profit Rate (or rate 0,00%) are not printed in this report.)

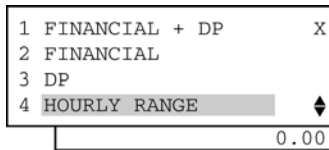
Total of all the DEPTs' Gross Profits read in this report. (The rate is the average.)

Hourly Range Read or Reset (Daily) Reset Report Sample

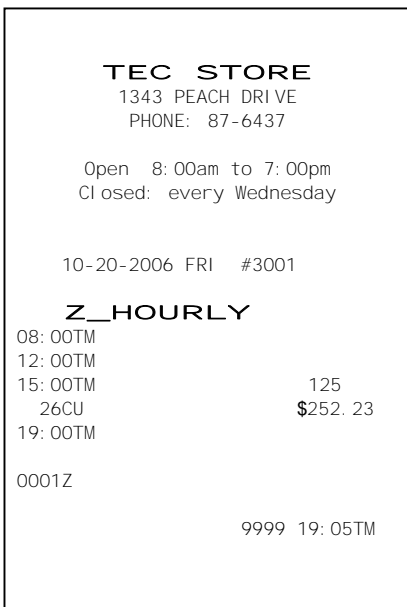
- Operation: Mode Lock: **X** for read
Z for reset



When the ECR is being outside a sale and in **Z** mode, depress the **[1]** or **[Enter]** key.



Select "**HOURLY RANGE**" with the **[↓]** or **[↑]** key, then depress the **[4]** or **[Enter]** key.



8:01 to 12:00
12:01 to 15:00
15:01 to 19:00 Item Count
Customer Count & Amount
19:01 and thereafter

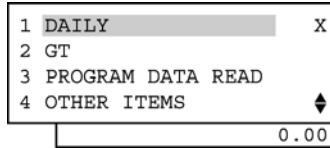
Hourly Range Reset Report Count (on Reset Reports only)

All Media Sales Total and Cash-in-Drawer Read (Daily)

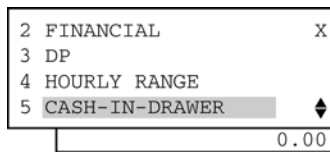
(Read only)

Read Report Sample

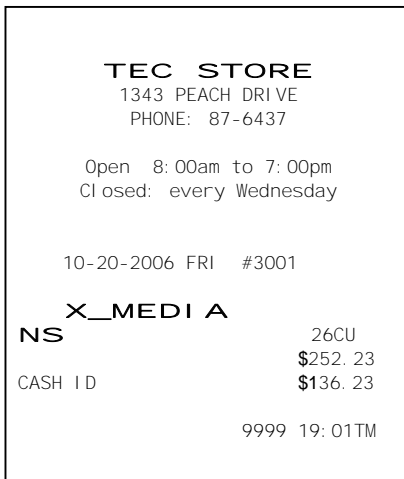
- Operation: Mode Lock: **X** for read



When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



Select "**CASH-IN-DRAWER**" with the **[↓]** or **[↑]** key, then depress the **[5]** or **[Enter]** key.



All Media Sales Total Customer Count
& Amount
Cash-in-drawer Amount

**All Cashier Read or Reset (Daily or GT)
Read Report Sample**

- Operation: Mode Lock: **X** for read
Z for reset

```

1 DAILY X
2 GT
3 PROGRAM DATA READ
4 OTHER ITEMS
0
    
```

When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.

```

3 DP X
4 HOURLY RANGE
5 CASH-IN-DRAWER
6 CASHIER
0
    
```

Select "**CASHIER**" with the **[↓]** or **[↑]** key, then depress the **[6]** or **[Enter]** key.

```

1 ALL CASHIER X
2 INDIVIDUAL CASHIER
0
    
```

Select "**ALL CASHIER**" with the **[↓]** or **[↑]** key, then depress the **[1]** or **[Enter]** key.

```

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Cl osed: every Wednesday

10-20-2006 FRI #3001

X_CLERK

01 JONES
GS 125
$346.77
NS 112
$300.48

TL /CUS $XX.XX
NO SALE 2
VALI CTR 1
CONSIGN CTR 1
0001Z

**TRAINING**
04 BROWN

VALI CTR 1
CONSIGN CTR 1
0001Z

9999 19:00TM
    
```

In CASHIER SIGNING Method, the ID code here is the 2-digit manager-assign portion of the Cashier Code

Cashier ID Code & Cashier's Name

Report for Cashier 1 (Cashier Code: 01, Cashier Name: JONES)

Same contents as Financial Reports except for GT, NET GT and OFFLINE AUTH are not printed

Total per customer
No-sale Count
Validation Count
Consignment Count
Individual Cashier Reset Report Count (on Reset Reports only)

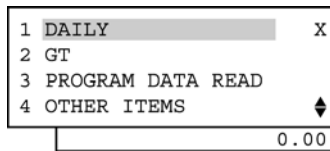
Report for Cashier 4 (Cashier Code: 04, Cashier Name: BROWN (Training Cashier))

Same contents as Financial Reports except for GT, NET GT and OFFLINE AUTH are not printed

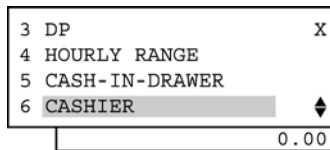
Receipt Consecutive No., Current Time

**Individual Cashier Read or Reset (Daily or GT)
Read Report Sample**

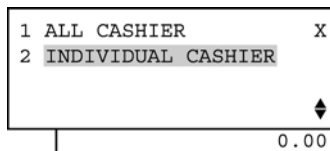
- Operation: Mode Lock: **X** for read
Z for reset



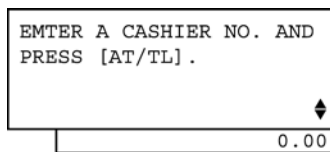
When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



Select "**CASHIER**" with the **[↓]** or **[↑]** key, then depress the **[6]** or **[Enter]** key.

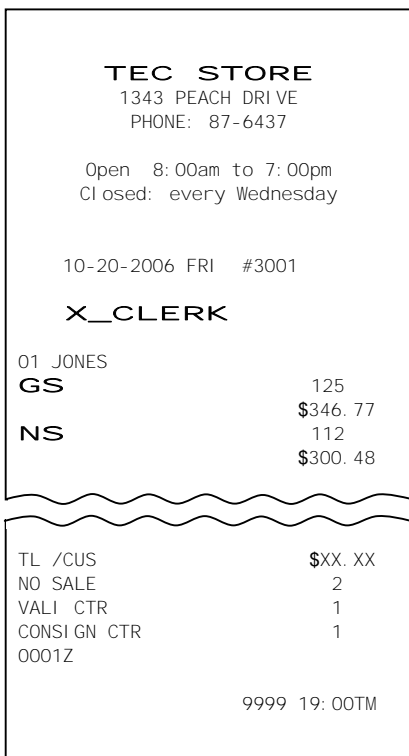


Select "**INDIVIDUAL CASHIER**" with the **[↓]** or **[↑]** key, then depress the **[2]** or **[Enter]** key.



Input a cashier code (01 to 08) of which report is to be taken, then depress the **[AT/TL]** key.

(This guidance message is displayed only when the cashier code entry method is activated.)



In CASHIER SIGNING Method, the ID code here is the 2-digit manager-assign portion of the Cashier Code

Cashier ID Code & Cashier's Name

Report for Cashier 1 (Cashier Code: 01, Cashier Name: JONES)

Same contents as Financial Reports except for GT, NET GT and NEG GT are not printed

Total per customer

No-sale Count

Validation Count

Consignment Count

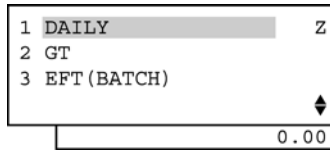
Individual Cashier Reset Report Count (on Reset Reports only)

Receipt Consecutive No., Current Tim

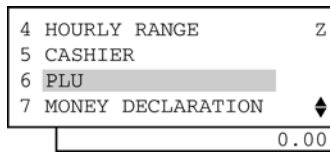
All PLU Read or Reset (Daily)

Reset Report Sample

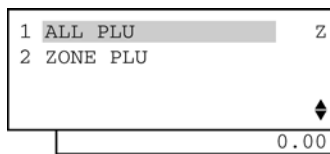
- Operation: Mode Lock: **X** for read
Z for reset



When the ECR is being outside a sale and in **Z** mode, depress the **[1]** or **[Enter]** key.



Select "**PLU**" with the **[↓]** or **[↑]** key, then depress the **[6]** or **[Enter]** key.



Select "**ALL PLU**" with the **[↓]** or **[↑]** key, then depress the **[1]** or **[Enter]** key.



Print data in order from lower to larger numbered PLU Code.

PLU Code 0100
Name "Tomato"
Item Count, Amount



PLU Code 1000

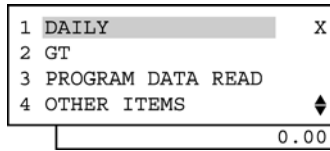
Total Item Count and Amount of all the PLUs
Negative Total Item Count and Amount of all the PLUs

PLU Reset Report Count (on Reset Reports only)

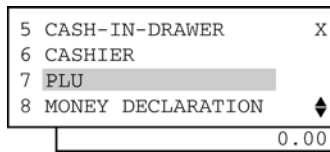
Zone PLU Read or Reset (Daily)

Read Report Sample

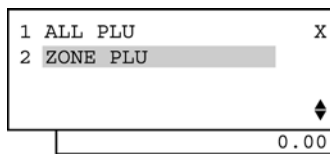
- Operation: Mode Lock: **X** for read
Z for reset



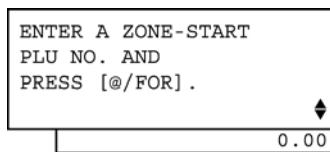
When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



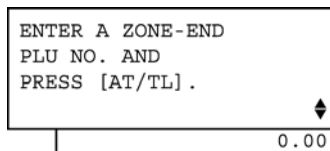
Select "**PLU**" with the **[↓]** or **[↑]** key, then depress the **[7]** or **[Enter]** key.



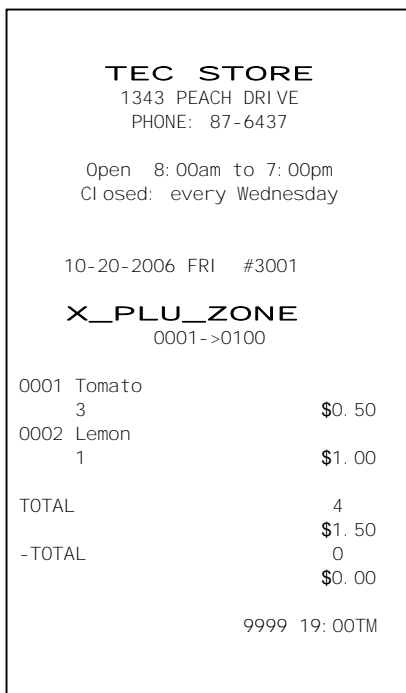
Select "**ZONE PLU**" with the **[↓]** or **[↑]** key, then depress the **[2]** or **[Enter]** key.



Enter a zone-start PLU code (4 digits), then depress the **[@/FOR]** key.



Enter a zone-end PLU code (4 digits), then depress the **[AT/TL]** key.



NOTE: In Zone PLU Read Reports, PLUs of zero sale will be skipped.

For this sample

Mode Lock: **X** or **Z**
(for Daily)
0001 **[@/FOR]**
0100 **[AT/TL]**

Zone-start PLU Code -> Zone-end PLU Code

PLU Code
PLU Name
Item Count, Amount

Total Item Count and
Amount of Total of all PLUs read in this report
Negative Total Item Count and
Amount of Total of all PLUs read in this report

Money Declaration

(to be operated when the "Cashier Key" method and the "Money Declaration" option have been selected)

When the Money Declaration feature is selected, each cashier who has operated the ECR on the day must end with his/her Money Declaration operation. Without performing this, the Daily Financial Report cannot be taken. All Media Sales Total and Cash-in-drawer Report and Daily All/Individual Cashier Report cannot be taken with the Money Declaration feature.

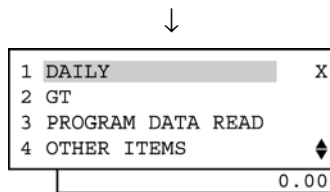
Collective Money Declaration

By selecting the program option, money declaration can be performed collectively by a permitted cashier at a time, without performing money declarations by each cashier. Without this, the Daily Financial Report cannot be taken.

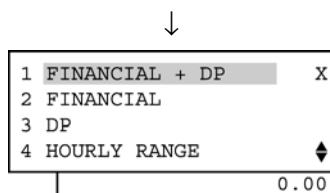
Key Operation: Mode Lock: **X** (for Read Mode Money Declaration)
 Mode Lock: **Z** (for Reset Mode Money Declaration)

Example of Read Mode Money Declaration

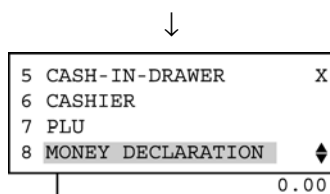
The cashier sets his/her own cashier key to the ON status.



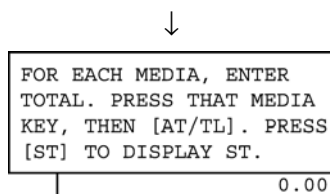
When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



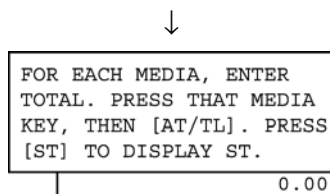
Select "**8 MONEY DECLARATION**" with the **[↓]** or **[↑]** key.



Depress the **[8]** or **[Enter]** key.
 (The drawer opens.)

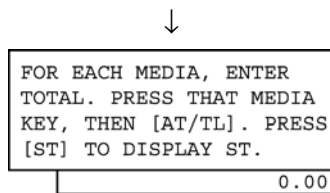


Input the numeric value of all media-in-drawer total, then depress the **[AT/TL]** key.



Declare each media-in-drawer total by depressing the corresponding media key. Repeat this alternating the amount and the media key until all the media-in-drawer total are declared.

[ST] may be depressed to obtain the subtotal of the amounts so far declared.)



After declaring all the media-in-drawer total, depress the **[AT/TL]** key.

A Money Declaration receipt is issued, printing the media amounts declared and the total of all the medias declared. It is automatically followed by a Cashier Report of that cashier (X or Z report depending on the Mode Lock position where the preceding Money Declaration has been performed). When collective money declaration is performed by a permitted cashier, the Cashier Report is not automatically printed. The Daily All/Individual Cashier Report operation is available.

In this cashier report, each media-in-drawer total in memory is printed, along with each media amount difference between the amount declared and the amount in memory.

(Refer to the sample operation and sample print format of MONEY DECLARATION at the end of this chapter.)

Sample Operation in "Z" Mode

(The Cashier Key of the required cashier must be set to ON.)

Manager turns the Mode Lock to the "Z" position

SAMPLE OPERATION

Mode Lock: **Z**
 Cashier 2 Key ([CLK 2]) to ON.
 24514 [AT/TL]
 2450 [CHECK TEND]
 570 [Chg]
 400 [MISC TEND]
 [AT/TL]

```

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Closed: every Wednesday

10-20-2006 FRI #3001

Z_MDR
CASH                $245.14
CHECK                $24.50
Chg                  $5.70
MI SC                $4.00
TOTAL                $279.34

SMI TH              9999 19:00TM
    
```

Cashier Report automatically follows
 (Reset Report in this case)

The money declaration is finalized on the last [AT/TL] key depression. A receipt such as shown above is issued, automatically followed by the Cashier Daily Reset Report of the cashier who has just operated the money declaration.

```

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Open 8:00am to 7:00pm
Closed: every Wednesday

10-20-2006 FRI #3001

Z_CLERK
02 SMI TH
GS                                72
                                $279.34

(Same as ordinary Cashier Report)

CASH DIF                        $0.00
CHECK DIF                       $0.00
Chg DIF                         $0.00
MI SC DIF                       $0.00

M. DCR                           3

001Z
SMI TH                          9999 19:00TM
    
```

If the Money Declaration has been operated in X mode, the Cashier Report automatically issued will be Read Report.

Media Difference:
 If the difference is zero, declared media amount was correct.
 If negative, the declared amount was smaller than the memory.
 If positive, a larger amount than the memory was declared.

Money Declaration Count

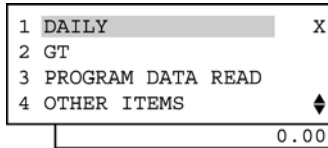
In the Cashier Reset Report, the print contents are the same as those of Cashier Read or Reset Reports without the Money Declaration feature, except that the amount difference of each declared media will be printed below the media-in-drawer totals lines and the Money Declaration Count (by that individual cashier) will be printed above the Cashier Reset Report Count.

EFT Media Log

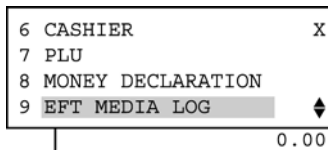
A report showing amount and frequency for each card is output.

- Operation: Mode Lock: **X** for EFT media log read

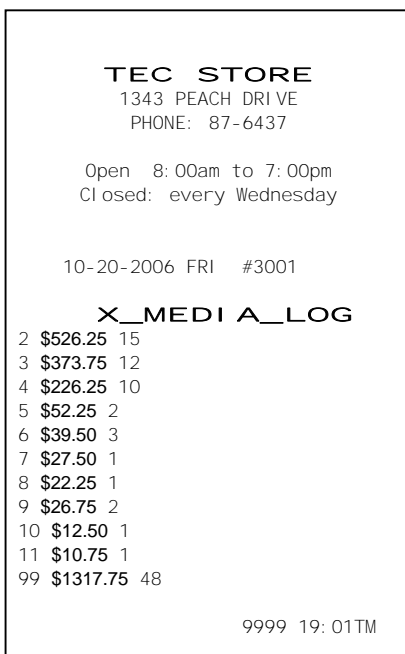
Read Report Sample



When the ECR is being outside a sale and in **X** mode, depress the **[1]** or **[Enter]** key.



Select **"9 EFT MEDIA LOG"** with the **[↓]** or **[↑]** key, then depress the **[9]** or **[Enter]** key.



NOTES:

1. The ECR sends a local totals report command to the EFT terminal and print the received data is printed.
2. This operation is possible when a connection of EFT terminal has been selected by the program option.

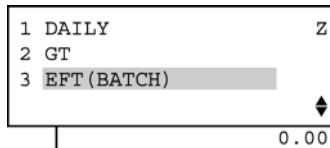
EFT Batch

(1) Open Batch

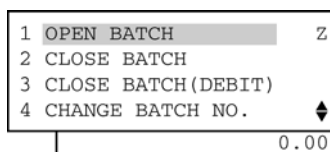
An open batch command is sent to the EFT terminal to declare the use of the batch file.
This operation is performed before the store opens.

Example

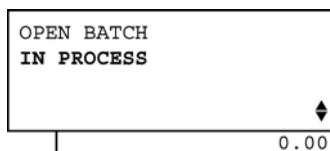
- Operation: Mode Lock: **X** for read
Z for reset



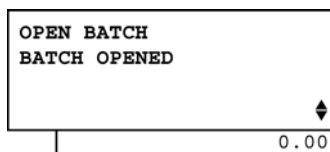
When the ECR is being outside a sale and in **Z** mode, depress the [↓] key twice to select "**3 EFT(BATCH)**". And depress the [3] or [Enter] key.



Select "**1 OPEN BATCH**", then depress the [1] or [Enter] key.



The open batch is in process.



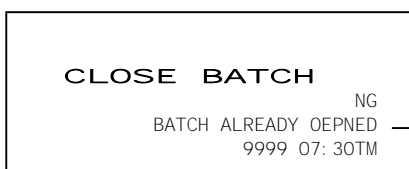
When the operation was successfully completed, this message is displayed.

If it was failed, an error message is displayed. (**NOTE 1**)

Journal Print Format



OK: The operation was successfully completed.
NG: The operation was failed.



This message is printed when Open Batch has already been executed.

NOTE:

When a response from the EFT terminal was not sent correctly, an error message "RESPONS NG" is shown on the LCD display.

When no response was sent from the EFT terminal within a specified time (standard: 30 seconds), a timeout error occurs on the ECR and an error message "NO RESPONS" is shown on the LCD display.

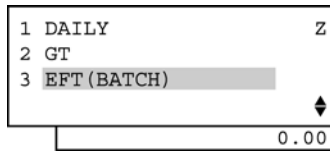
(2) Close Batch

A close batch command is sent to the EFT terminal.

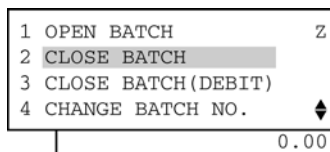
Sales transaction of the day is ended and a batch file is sent to the host to make a settlement.

Example

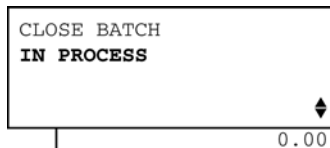
- Operation: Mode Lock: **Z** for reset (reset only)



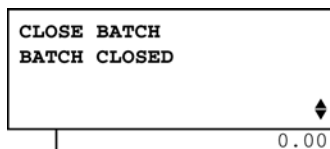
When the ECR is being outside a sale and in **Z** mode, depress the [↓] key twice to select "**3 EFT(BATCH)**". And depress the [3] or [Enter] key.



Depress the [↓] key to select "**2 CLOSE BATCH**" and depress the [2] or [Enter] key.



The close batch is in process.



When the operation was successfully completed, this message is displayed.

If it was failed, an error message is displayed. (**NOTE 2, NOTE 3**)



OK: The operation was successfully completed.
 NG: The operation was failed.
 BATCH ALREADY CLOSED is printed under NG when CLOSE BATCH has already been executed.

NOTES:

1. After processing, a receipt showing the processing result is issued.
2. When no response was sent from the EFT terminal within a specified time (standard: 10 minutes), a timeout error occurs on the ECR and an error message "NO RESPONS" is shown on the LCD display.

3. When a response from the EFT terminal was not sent correctly (i.e. when a sales transaction data was not correct), an error message "RESPONS NG" is shown on the LCD display.

At this time, follow the procedure below.

Step 1: Ask the hosting company which sales transaction was not correct on the telephone.

Step 2: Take a Local Transaction Inquiry Read Report to confirm the transaction sequence. (Refer to (7) Local Transaction Inquiry.)

Step 3: Perform a void operation to delete a target item in the sales transaction. (Refer to Section 11.13 Void, Operator's Guide.)

Step 4: Retry to enter the deleted item. (Manual card number entry)

Step 5: Perform a Change Batch Number. (Refer to (4) Change Batch Number.)

Step 6: Retry to perform a Close Batch to make a settlement.

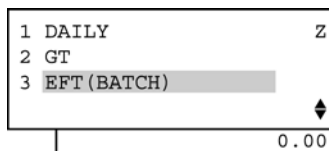
(3) Close Batch (with Debit)

A close batch command is sent to the EFT terminal.

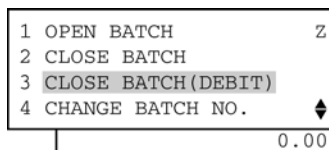
Sales transaction of the day is ended and a batch file is sent to the host to make a settlement.

Example

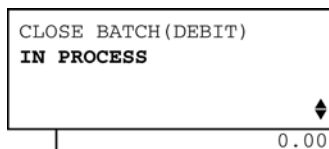
- Operation: Mode Lock: **Z** for reset (reset only)



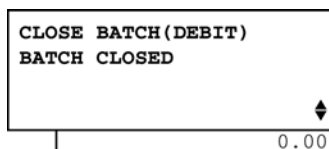
When the ECR is being outside a sale and in **Z** mode, depress the [↓] key twice to select "**3 EFT(BATCH)**". And depress the [3] or [Enter] key.



Depress the [↓] key twice to select "**3 CLOSE BATCH(DEBIT)**" and depress the [3] or [Enter] key.

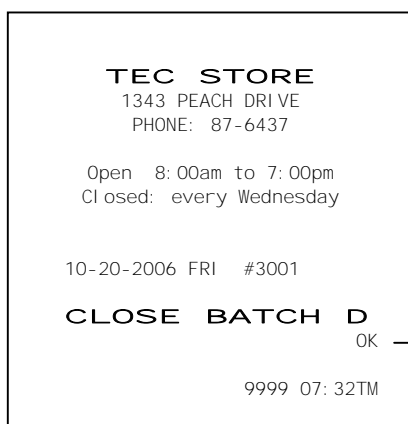


The close batch (with Debit) is in process.



When the operation was successfully completed, this message is displayed.

If it was failed, an error message is displayed. (**NOTE 2**)



NOTES:

1. After processing, a receipt showing the processing result is issued.
2. When no response was sent from the EFT terminal within a specified time (standard: 10 minutes), a timeout error occurs on the ECR and an error message "NO RESPONS" is shown on the LCD display.

OK: The operation was successfully completed.

NG: The operation was failed.

BATCH ALREADY CLOSED is printed under NG when CLOSE BATCH has already been executed.

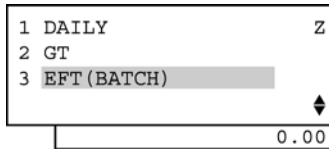
(4) Change Batch Number

A close batch command is sent to the EFT terminal.

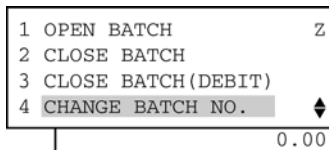
Sales transaction of the day is ended and a batch file is sent to the host to make a settlement.

Example

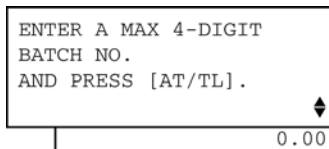
- Operation: Mode Lock: **Z** for reset (reset only)



When the ECR is being outside a sale and in **Z** mode, depress the [↓] key twice to select “**3 EFT(BATCH)**”. And depress the [3] or [Enter] key.



Depress the [↓] key three times to select “**4 CHANGE BATCH NO.**” and depress the [4] or [Enter] key.



Input a maximum of 4-digit batch No. which was specified by the hosting company, and then depress the [AT/TL] key.



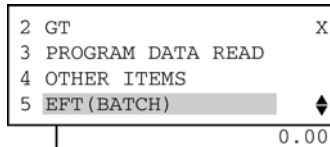
— The changed batch No. is printed.

(5) Local Batch Status

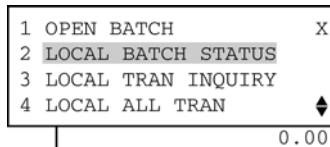
A local batch status command is sent to the EFT terminal and a response from the EFT terminal is printed out. (condition check)

Example

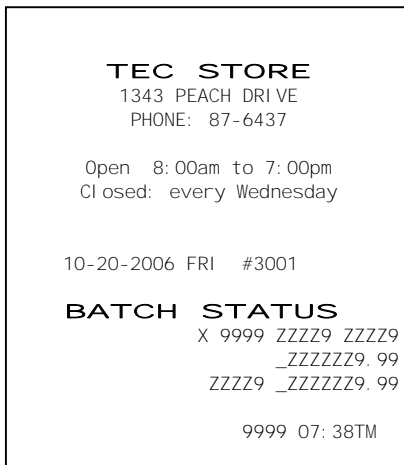
- Operation: Mode Lock: **X** for read



When the ECR is being outside a sale and in **X** mode, depress the [↓] key four times to select “**5 EFT(BATCH)**”. And depress the [5] or [Enter] key.



Depress the [↓] key to select “**2 LOCAL BATCH STATUS**”, then depress the [2] or [Enter] key.



- A: Batch status (0 = Open, C = Closed, P = Pended, X = Incomplete): one character
- B: Batch Number: 4 digits
- C: Transaction count: 5 digits
- D: Item count: 5 digits
- E: Batch balance: 7-digit integer + 2-digit decimal
- F: Forward transaction count: 5 digits
- G: Forward batch balance: 7-digit integer + 2-digit decimal

NOTE:

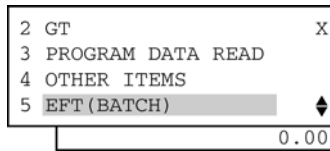
When no response was sent from the EFT terminal within a specified time (standard: 30 seconds), a timeout error occurs on the ECR and an error message “NO RESPONS” is shown on the LCD display.

(6) Local Transaction Inquiry

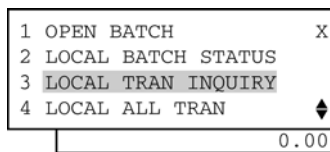
A local transaction inquiry command is sent to the EFT terminal and a response from the EFT terminal is printed out. (for one sales transaction)

Example

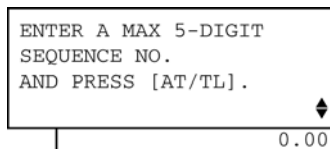
- Operation: Mode Lock: **X** for read



When the ECR is being outside a sale and in **X** mode, depress the [↓] key four times to select “**5 EFT(BATCH)**”. And depress the [5] or [Enter] key.



Depress the [↓] key twice to select “**3 LOCAL TRAN INQUIRY**” and depress the [3] or [Enter] key.



Input a maximum of 5-digit sequence No., and then depress the [AT/TL] key.



NOTE:

When no response was sent from the EFT terminal within a specified time (standard: 30 seconds), a timeout error occurs on the ECR and an error message “NO RESPONS” is shown on the LCD display.

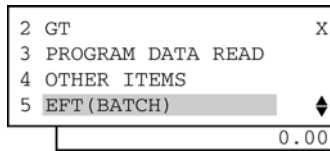
	Min. No. of digits	Max. No. of digits	Type	
A: Transaction sequence number	1	5	N	N=Numeric
B: Transaction status	1	1	A	A=Alphanumeric
C: Network transaction code	1	3	A	
D: Credit card account number	1	19	A	
E: Expiration date	4	4	N	
F: Card read flag	1	1	A	
G: Approval code	1	16	A	
H: Reference number	1	16	A	
I: Transaction amount	3	11	N	
J: Transaction date	6	6	A	
K: Transaction time	6	6	A	

(7) Local Transaction Report

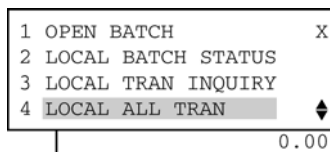
A local transaction report command is sent to the EFT terminal and a response from the EFT terminal is printed out. (for all sales transactions)

Example

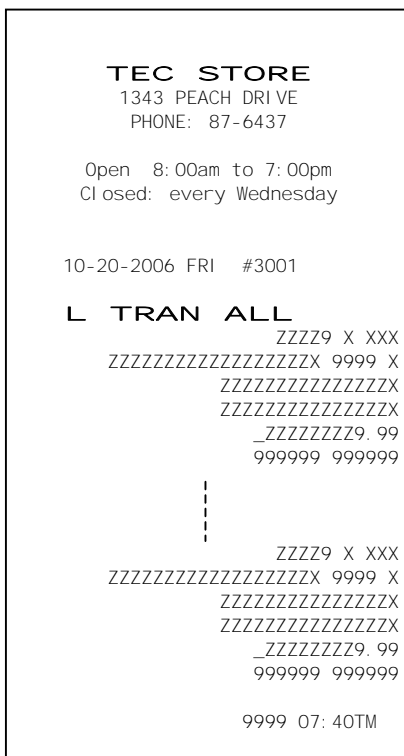
- Operation: Mode Lock: **X** for read



When the ECR is being outside a sale and in **X** mode, depress the [↓] key twice to select “**5 EFT(BATCH)**”. And depress the [5] or [Enter] key.



Depress the [↓] key three times to select “**4 LOCAL ALL TRAN**” and depress the [4] or [Enter] key.



NOTE:

When no response was sent from the EFT terminal within a specified time (standard: 30 seconds), a timeout error occurs on the ECR and an error message “NO RESPONS” is shown on the LCD display.

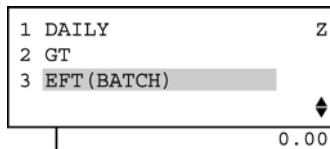
	Min. No. of digits	Max. No. of digits	Type	
A: Transaction sequence number	1	5	N	N=Numeric
B: Transaction status	1	1	A	A=Alphanumeric
C: Network transaction code	1	3	A	
D: Credit card account number	1	19	A	
E: Expiration date	4	4	N	
F: Card read flag	1	1	A	
G: Approval code	1	16	A	
H: Reference number	1	16	A	
I: Transaction amount	3	11	N	
J: Transaction date	6	6	A	
K: Transaction time	6	6	A	

(8) Clear Current Batch

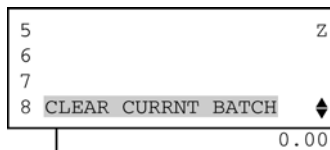
A clear current batch command is sent to the EFT terminal and the data in the EFT report is cleared.
This operation is performed for doing maintenance on the EFT terminal.

Example

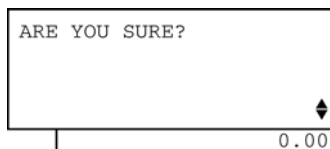
- Operation: Mode Lock: **Z** for reset (reset only)



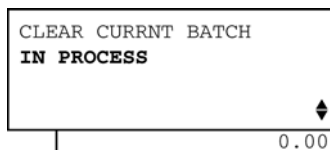
When the ECR is being outside a sale and in **Z** mode, depress the [↓] key twice to select “**3 EFT(BATCH)**”. And depress the [3] or [Enter] key.



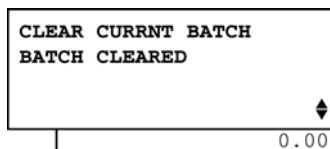
Depress the [↓] key seven times to select “**8 CLEAR CURRNT BATCH**” and depress the [8] or [Enter] key.



Depress the [AT/TL] key.
 (The display returns to the previous screen by depressing the [Rtn] key.)



The clear current batch is in process.



When the operation was successfully completed, this message is displayed.
 If it was failed, an error message is displayed. (**NOTE 2**)



OK: The operation was successfully completed.
 NG: The operation was failed.

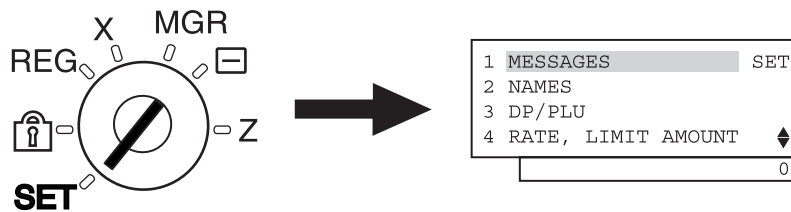
NOTES:

1. After processing, a receipt showing the processing result is issued.
2. When no response was sent from the EFT terminal within a specified time (standard: 30 seconds), a timeout error occurs on the ECR and an error message “NO RESPONS” is shown on the LCD display.

4. PROGRAMMING OPERATIONS

This chapter is provided for the store programmer or the store manager who may have to change the programmed data of the ECR on the daily, weekly, or monthly basis. Usually, all the basic program data required for your store should be set before delivering the product by your local TOSHIBA TEC representative. However, in need of changing or adding program data, please refer to this chapter. It is also recommended to read the OPERATOR'S GUIDE as well as other chapters of the MANAGER'S GUIDE in order to thoroughly understand the descriptions in this chapter.

By turning the Mode Lock to the **SET** position with the **MA** key, the menu below is displayed on the LCD display so that the ECR is ready to perform a programming operation.



If there are any unclear points or program data other than listed here must be changed or added, please contact your TOSHIBA TEC representative.

TABLE OF PROGRAMMING OPERATIONS

CAUTION!

Do not perform programming operations which are not described in this chapter. Doing so may cause a malfunction of the ECR.

	(Page)
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4.1 Instructions for Programming

On the MA-600 series adopting the LCD display, each programming operation is performed by selecting the corresponding menu item on the LCD display.

The keyboard layout is automatically changed in three types according to operation to be performed (ordinary registration, read/reset, programming) when the Mode Lock is turned to the corresponding position.

Accordingly, in addition to the character code entry method, the character entries in programming operations are also performed directly through the ordinary type keyboard.

4.1.1 Types of Keyboard Layouts

The keyboard layout is automatically changed in three types when the Mode Lock is turned to the corresponding position. That for programming operation is used in this chapter.

(1) Keyboard layout for ordinary registration (It is programmed as default setting.)

Mode Lock Position: **REG, MGR**, 

• Ordinary Type Keyboard

LOG RECEIPT	NS	VOID	RF	JF	1	6	11	PO	RECEIPT ISSUE
RTN MDSE	ALL VOID	C		TX/M	2	7	12	R/A	DOLL DISC
FS/M	ITEM CORR	7	8	9	3	8	13	VND CPN	%-
OPEN	@/FOR	4	5	6	4	9	14	STR CPN	EX
#	AMT	1	2	3	5	10	15	FS TL TEND	Chg
PLU		0	00	.	ST		AT/TL		CHECK TEND

• Flat Type Keyboard

								1	8	LOG RECEIPT	VOID	ITEM CORR	ALL VOID	RF	JF
								2	9	RECEIPT ISSUE	TX/M	EX	RTN MDSE	R/A	PO
								3	10	%-	C		@/FOR	Chg	NS
								4	11	#	7	8	9	\$5.00	
								5	12	AMT	4	5	6	\$10.00	
								6	13	PLU	1	2	3	ST	
								7	14		0	00	.	AT/TL	

PLU preset-code keys

Department keys

(2) Keyboard layout for programming
Mode Lock Position: **SET**

• Ordinary Type Keyboard

↑	Del	History	RF	JF	A	F	K	P	U
↓	ALL VOID	C			B	G	L	Q	V
←	Rtn	7	8	9	C	H	M	R	W
→	Dbl	4	5	6	D	I	N	S	X
Enter	A/a	1	2	3	E	J	O	T	Y
PLU		0	00	.	?	End		Z	

• Flat Type Keyboard

!	@	#	\$	%	¢	&	★	(	)	LOG RECEIPT		Del	ALL VOID	RF	JF
q	w	e	r	t	y	u	i	o	p	A/a	Dbl	↑	↓	←	→
a	s	d	f	g	h	j	k	l	"	?	C		@/FOR	Rtn	Enter
z	x	c	v	b	n	m			'	#	7	8	9		
Q	W	E	R	T	Y	U	I	O	P	History	4	5	6		
A	S	D	F	G	H	J	K	L	;	PLU	1	2	3	ST	
Z	X	C	V	B	N	M	SP	.	/		0	00	.	End	

4.1.2 SET Mode Menu

When performing a programming operation, a desired programming item is selected from the menu which is shown on the LCD display. Programming menu tree is as shown below.

Programming items indicated by boldface are described in this chapter.

1 MESSAGES

- 1 **COMMERCIAL MESSAGE**
- 2 **FOOTER MESSAGE**

2 NAMES

- 1 **DP KEY NAME**
- 2 **DP GROUP NAME**
- 3 **CASHIER NAME**
- 4 **PLU (ITM NO.) NAME**
- 5 FINANCIAL ITM NAME
- 6 PRINT ITEM NAME
- 7 DISPLAY ITEM NAME
- 8 ERROR ITEM NAME
- 9 X/Z REPORT NAME

3 DP/PLU

- 1 DP
 - 1 **DP SETTING**
 - 2 **UNIT PRICE**
 - 3 DIGIT LIMIT (PRICE)
 - 4 KEY STICKER PRINT
- 2 PLU
 - 1 **PLU SETTING**
 - 2 **UNIT PRICE**
 - 3 ASSIGN TO KEYBOARD
 - 4 **DELETE (INDIV)**
 - 5 **DELETE (ALL)**

4 RATE, LIMIT AMOUNT

- 1 **%- RATE (%-!%+)**
- 2 NONTXBL AMT LIMIT
- 3 **TAX TABLE**
- 4 **CUR EXCHANGE RATE**
- 5 DISC AMT LIMIT
- 6 TEND AMT LIMIT

5 BASIC

- 1 **TIME**
- 2 **DATE**
- 3 REGISTER NO.
- 4 HOURLY RANGE
- 5 KEY-IN TONE

6 OTHER

- 1 REPORT PRINT ITEM
- 2 SYSTEM OPTION
- 3 KEY FUNCTION
- 4 CASH KEY AMOUNT
- 5 DRW WARNING TIME
- 6 RCT PRINT BUFFER
- 7 EFT KEY FUNCTION
- 8 EFT INFORMATION
- 9 EFT INFORMATION 2
- 0 CONNECT I/O

4.1.3 Condition Required for Programming Operations

“CONDITION” is given at the top of each programming operation. The ECR must satisfy this condition to perform programming operations.

There are two types of conditions:

“Any time outside a sale”

It means that the programming operation is allowed when a sale is finalized before going into any other sale entry.

“After----- reset”

It means that the designated reset report must be taken before entering the programming operation.

And an error will result if the operation is attempted without taking the report. However, the words “After ... Reset” do not necessarily mean “immediately after ...”.

When the designated reset report has already been taken and then some operations are performed in the **SET**, **X**, or **Z** mode, the condition “After ... Reset” is still satisfied and the programming operation is still allowed.

On the contrary, when the designated reset report has been taken but then some sales data relating to that report’s output data are entered in the **REG**, **MGR**, or mode, the programming operation will no longer be allowed and the same reset report must be taken.

Thus the condition “After ... Reset” indicates that all the sales data relating to the report data must be zero (except non-resettable memory data). Because of this “CONDITION” requirement, the report data will be protected from any inconsistencies of sales data entered in the period from a resetting of the report to another resetting of the same report next time.

Programming operation	Required condition
Time Setting or Adjustment	Any time outside a sale
Date Setting or Adjustment	Any time outside a sale
Store Name Message Programming	Any time outside a sale
Commercial Message Programming	Any time outside a sale
Footer Message Programming	Any time outside a sale
Cashier Name and Status Programming	Any time outside a sale
Department Table Programming	To change the positive/negative status: After Department and PLU Daily and GT Resets To change any other programmed data or to newly program departments: Any time outside a sale
Department Name Programming	Any time outside a sale
Department Group Name Programming	Any time outside a sale
PLU Table Programming	Any time outside a sale
PLU Name Programming	Any time outside a sale
Department Preset Price Setting or Changing	Any time outside a sale
PLU Preset Price Setting or Changing	Any time outside a sale
Tax Table Programming	After Financial Daily Reset
%+ and %- Preset Rate Setting	Any time outside a sale
Foreign Currency Exchange Rate Setting	Any time outside a sale

4.1.4 Basic Key Functions

Programming operations in this chapter are performed with the keyboard layout for programming.

1. The following are main keys and their functions to be used in programming operations.

(1) Keys for selecting items on the menu screen

Key	Function
[↑]	This key is used for moving the cursor upward.
[↓]	This key is used for moving the cursor downward.
[←]	This key is used for moving the cursor leftward.
[→]	This key is used for moving the cursor rightward.
[Enter]	This key is used for selecting a desired item after moving the cursor.
[Rtn]	This key is used for returning the display to the previous screen.
[?]	While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that a guidance message corresponding to the current operation appears on the LCD display.

(2) Keys for character entries

Key	Function
[→]	This key is used for entering a one-byte space.
[C]	This key is used for deleting all the entered characters together.
[Dbt]	This key is used for switching character mode between “one-byte character” and “two-byte character” alternately.
[A/a]	This key is used for switching between “capital letter” and “small letter” alternately. The key is effective when entering characters A to Z through the programming keyboard or PK-2 keyboard (hardware option).
[Del]	This key is used for deleting a character.
[#]	In the character code entry method, entering a character code then depressing this key results in that the corresponding character is entered.
[History]	This key is used for performing character entries with the name previously entered.

(3) Keys for programming

Key	Function
[←]	This key is used for selecting a desired item.
[→]	This key is used for selecting a desired item.
[C]	This key is used for canceling an operation just performed.
[Enter]	This key is used for entering a desired item.
[Rtn]	This key is used for returning the display to the previous screen.
[?]	While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that a guidance message corresponding to the current operation appears on the LCD display.
[End]	This key is used for ending the current programming operation.
[PLU]	This key is used for the PLU programming.

2. Functions of the **[C]** key:

- When an entered program data is already printed, the **[C]** key cannot clear if any longer. To correct the data, re-enter it.
- Before the entered data is printed, the data may be cleared by the **[C]** key (except in the SFKC Programming Operation).

3. To clarify the operation flow, definitions of keys of the ECR keyboard are as shown below.
- |_____|----- Selective numeric value which is entered through the Numeric keys.
 - [____]----- Depression of the function key.
 - xxxx----- Fixed numeric value which is entered through the Numeric keys.
Fixed

4.2 Character Entries

There are two methods of character settings for various names and messages:

CHARACTER CODE ENTRY Method and DIRECT CHARACTER ENTRY Method.

CHARACTER CODE ENTRY Method

This method is to set a character by entering a Character Code and depressing the [#] key. The method is operated only on the ECR keyboard (Ordinary Type or Flat Type).

DIRECT CHARACTER ENTRY Method

This method is to set a character by directly depressing the Character Keys on any of the following keyboard:

- ECR keyboard with the keyboard layout for programming
- PK-2 keyboard (PLU keyboard; hardware option)

By using those character keys, the characters are directly entered. In this manual, sample operations are attached to most of the programming operations. And at name or message programming portions, characters except for numeric and special symbols are entered by the DIRECT CHARACTER ENTRY method.

On the following pages, Character Code Tables under the CHARACTER CODE ENTRY Method and two different keyboards under the DIRECT CHARACTER ENTRY Method are shown. These pages are to be referred to, every time the "Character Entries" sequence is contained in various programming operations in this manual.

Read through these pages at least once first, so that you may know the appropriate method of character entries using the ECR keyboard and/or option keyboards.

4.2.1 Character Code Entry Method

Character Code Table 1: Standard Characters

		Column Code →													
		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Row Code ↓	00	SP	0	@	P	`	p		€	■	á	Å	\		→
	01	!	1	A	Q	a	q				é	å			←
	02	"	2	B	R	b	r			┌	í	Ø			↓
	03	#	3	C	S	c	s			└	ó	o			↑
	04	\$	4	D	T	d	t			,	ú	Æ			½
	05	%	5	E	U	e	u			•	â	a			¼
	06	&	6	F	V	f	v			Ä	ê	Œ			★
	07	'	7	G	W	g	w			Ë	î	œ			◇
	08	(	8	H	X	h	x			Ö	ô	β			Kg
	09	)	9	I	Y	i	y			Ü	û	φ			lb
	10	*	:	J	Z	j	z			É	à	£			No
	11	+	;	K	[	k	{			ä	è	Φ			X
	12	,	<	L	¥	l	|			ë	ì	Σ			▽
	13	-	=	M	]	m	}			ï	ç	÷			△
	14	.	>	N	^	n	~			ö	Ñ	—			☐
15	/	?	O	_	o				ü	ñ					

NOTE: Characters of those character codes 1007, 1206, 1207, 1211, 1500 through 1503, and 1506 through 1514 cannot be printed on the slip printer.

Character Setting Operations

- To set a one-byte character, enter the COL (column) code and then the ROW code, followed by the [#] key.
ex.) To set "%", enter 205 and depress the [#] key.
To set "kg", enter 1508 and depress the [#] key.
- To set a space instead of a character, enter 200 and depress the [#] key.
- To set two-byte characters, depress the [Dbl] key to declare the two-byte character entry, then enter a character code, followed by the [#] key. The [Dbl] key declaration is effective until this key is depressed again.
ex.) To set "GROUP" all in two-byte characters:

<u>[Dbl]</u>	<u>407 [#]</u>	<u>502 [#]</u>	<u>415 [#]</u>	<u>505 [#]</u>	<u>500 [#]</u>
|	G	R	O	U	P

Two-byte character declaration

- ex.) To set "GROUP", "G" in two bytes, and "ROUP" in one byte:

<u>[Dbl]</u>	<u>407 [#]</u>	<u>[Dbl]</u>	<u>502 [#]</u>	<u>415 [#]</u>	<u>505 [#]</u>	<u>500 [#]</u>
|	G	|	R	O	U	P

Two-byte character
declaration

Canceling
the declaration

4.2.2 Direct Character Entry Method

Using PK-2 Keyboard (PLU Keyboard; hardware option)

The PK-2 keyboard is used for entering a required PLU code by simply depressing the code-preset key on this keyboard in **REG** or **MGR** mode. In addition, the PK-2 can be used for directly entering characters during the programming operations that require character settings such as STORE NAME MESSAGE PROGRAMMING, COMMERCIAL MESSAGE PROGRAMMING, and DEPARTMENT NAME PROGRAMMING.

The following shows the key indications of the PK-2 for the character setting purpose. Insert the template for this purpose between the film layers that cover the PK-2.

Instead of entering a 3- or 4-digit character code and depressing the [#] key on the ECR keyboard, a simple depression of the appropriate key on the PK-2 will be the character entry.

All the function keys such as [↑], [↓], [→], [←], [Enter] must be operated on the ECR side. Any characters not listed on the template may be entered by the CHARACTER CODE ENTRY method on the ECR keyboard. (The characters even listed on the template may be entered as well by that method.)

The two-byte character declaration is the same as in the CHARACTER CODE ENTRY method.

										7	8	9
										4	5	6
										1	2	3
!	@	#	\$	%	¢	&	*	(	)		0	
q	w	e	r	t	y	u	i	o	P	~	^	
a	s	d	f	g	h	j	k	l	"	_	+	
z	x	c	v	b	n	m			'	-	=	
Q	W	E	R	T	Y	U	I	O	P	[]	
A	S	D	F	G	H	J	K	L	;	:	,	
Z	X	C	V	B	N	M	space	.	/	?		

4.2.3 How to use the [History] key

The [History] key is used for performing character entries with the name previously entered.

Operation:

[History] → ([↓]) → [Enter]

- 1) The [History] key depression will let the most recently programmed name displayed on the LCD display.
- 2) The [↓] key depression will let the second most recently programmed name displayed. (Up to 10 programmed names will be displayed in reverse chronological order.)
- 3) The [Enter] key depression will allow the name on the LCD display to be entered.

Example of operation:

When "A LUNCH" for PLU1 and "B LUNCH" for PLU2 are programmed in the PLU name programming.

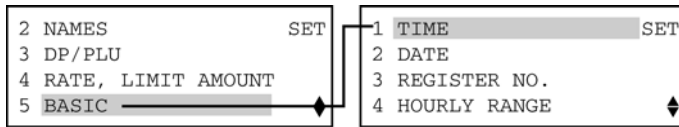
Key operation	Description	LCD display
1 [PLU]	PLU No.1 setting is declared.	PLU0001
[C]	The default setting displayed on the LCD display is deleted.	
401 [#]	The character A is entered.	A
[→]	A space is entered.	A
412 [#]	The character L is entered.	A L
505 [#]	The character U is entered.	A LU
414 [#]	The character N is entered.	A LUN
403 [#]	The character C is entered.	A LUNC
408 [#]	The character H is entered.	A LUNCH
[ST]	The name of PLU No.1 is entered.	
2 [PLU]	PLU No.2 setting is declared.	PLU0002
[C]	The default setting displayed on the LCD display is deleted.	
[History]	The name of PLU No. 1 just entered is called.	A LUNCH
[Enter]	The name of PLU No. 1 is entered.	A LUNCH
[Del]	The character A of "A LUNCH" is deleted.	LUNCH
402 [#]	The character B is entered instead of the deleted A.	B LUNCH
[ST]	The name of PLU No.2 is entered.	

4.3 Time Setting or Adjustment

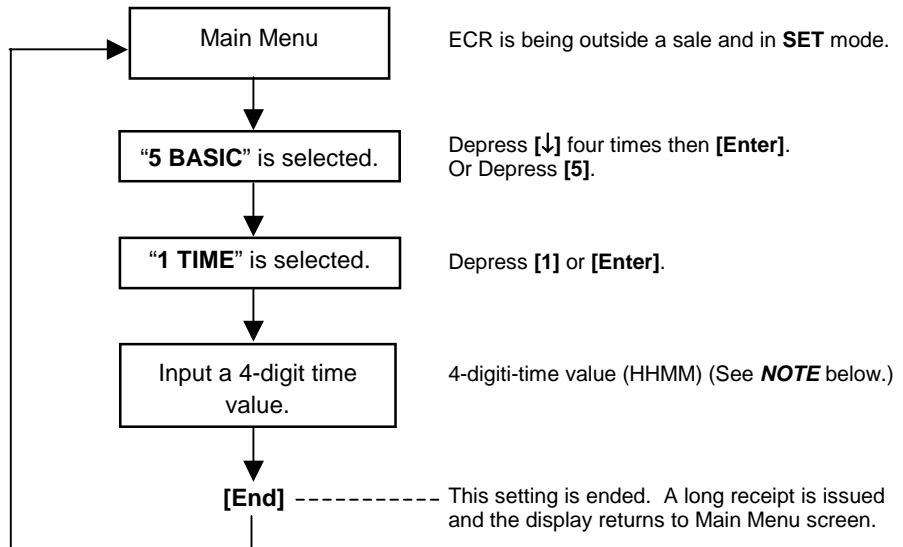
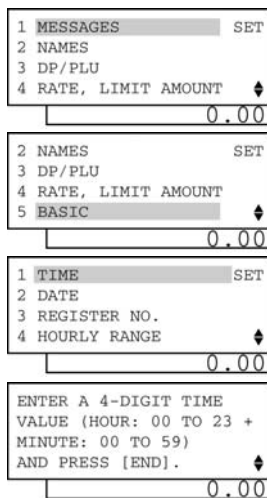
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



ECR is being outside a sale and in **SET** mode.

Depress [**↓**] four times then [**Enter**].
Or Depress [**5**].

Depress [**1**] or [**Enter**].

4-digit-time value (HHMM) (See **NOTE** below.)

----- This setting is ended. A long receipt is issued and the display returns to Main Menu screen.

NOTE: If an hour value of more than 23 or a minute value of more than 59 is entered, the current data remains unchanged by setting or adjusting the time.

3) Example

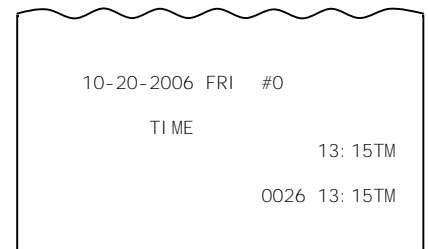
To set time "1:15 p.m. (13:15)"

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key four times.		The cursor is moved on to " 5 BASIC ".
Depress the [5] or [Enter] key.		" 5 BASIC " is selected.
Depress the [1] or [Enter] key.		" 1 TIME " is selected.

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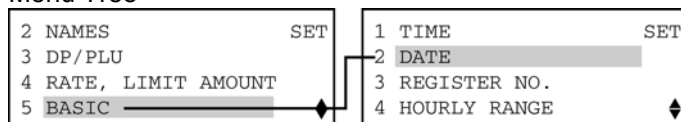
Operation	LCD Display	Remarks
Input 1315.		The time "13:15" is set.
The [End] key depression allows the ECR to end this setting.		A long receipt is issued and the display returns to Main Menu screen.



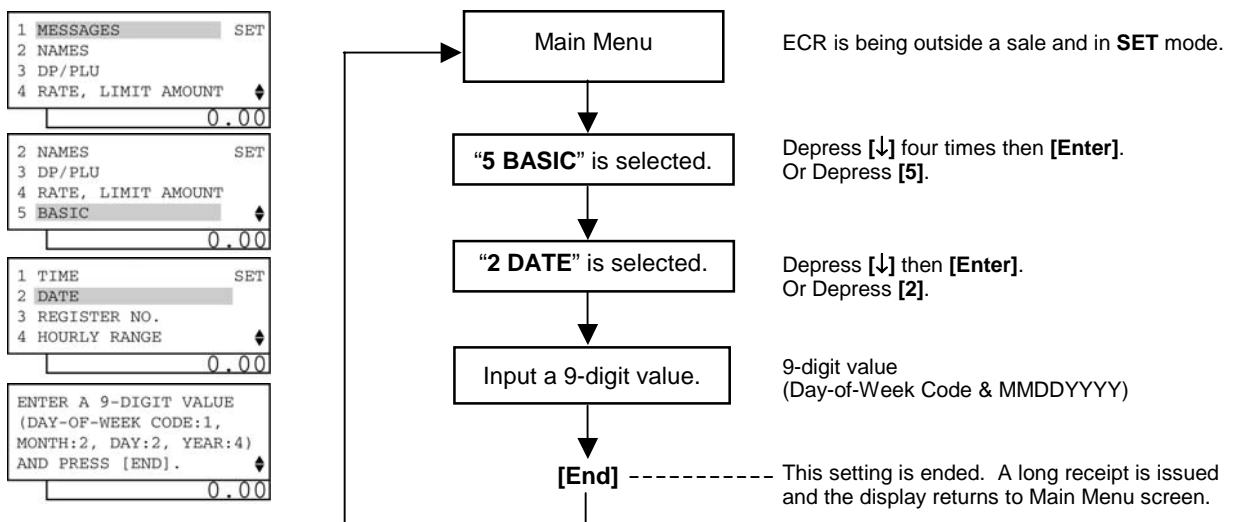
4.4 Date Setting or Adjustment

- CONDITION** Any time outside a sale
- OPERATION** Mode Lock: **SET**

1) Menu Tree



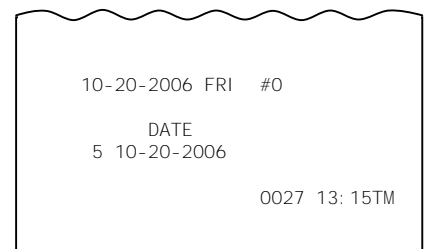
2) Operation Flowchart



NOTE: The date entry order may be Day-Month-Year or Year-Month-Day instead of Month-Day-Year if so selected in the program option. The "Month-Day-Year" is set as default.

3) Example
To set Date "Friday, October 20, 2006"

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key four times.	<pre> 1 MESSAGES SET 2 NAMES 3 DP/PLU 4 RATE, LIMIT AMOUNT 0.00 </pre>	The cursor is moved on to " 5 BASIC ".
Depress the [5] or [Enter] key.	<pre> 2 NAMES SET 3 DP/PLU 4 RATE, LIMIT AMOUNT 5 BASIC 0.00 </pre>	" 5 BASIC " is selected.
Depress the [↓] key.	<pre> 1 TIME SET 2 DATE 3 REGISTER NO. 4 HOURLY RANGE 0.00 </pre>	The cursor is moved on to " 2 DATE ".
Depress the [2] or [Enter] key.	<pre> 1 TIME SET 2 DATE 3 REGISTER NO. 4 HOURLY RANGE 0.00 </pre>	" 2 DATE " is selected.
Depress the [↓] key.	<pre> ENTER A 9-DIGIT VALUE (DAY-OF-WEEK CODE:1, MONTH:2, DAY:2, YEAR:4) AND PRESS [END]. 0.00 </pre>	
Input 510202006 .	<pre> THE DAY-OF-WEEK CODES ARE AS FOLLOWS: SUN;0, MON;1, TUE;2, WED;3, THU;4, FRI;5, SAT;6 0.00 </pre>	<p>5 10 20 2006</p> <p>October 20, 2006</p> <p>Day-of Week Code: 5 = Friday</p>
The [End] key depression allows the ECR to end this setting.	<pre> 1 MESSAGES SET 2 NAMES 3 DP/PLU 4 RATE, LIMIT AMOUNT 0.00 </pre>	A long receipt is issued and the display returns to Main Menu screen.



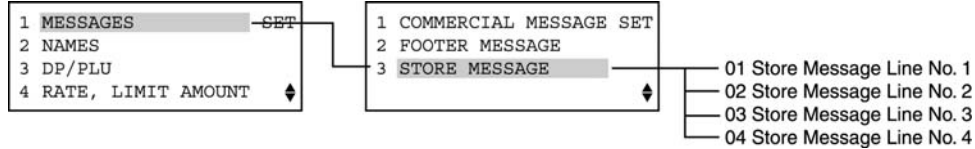
4.5 Store Name Message Programming

A maximum of 128 characters of Store Name Message (32 characters x 4 lines) to be printed on the receipt is programmed here. This programming is possible only when the store message specification has been selected by the program option, however, it is not possible when the logo message has been selected.

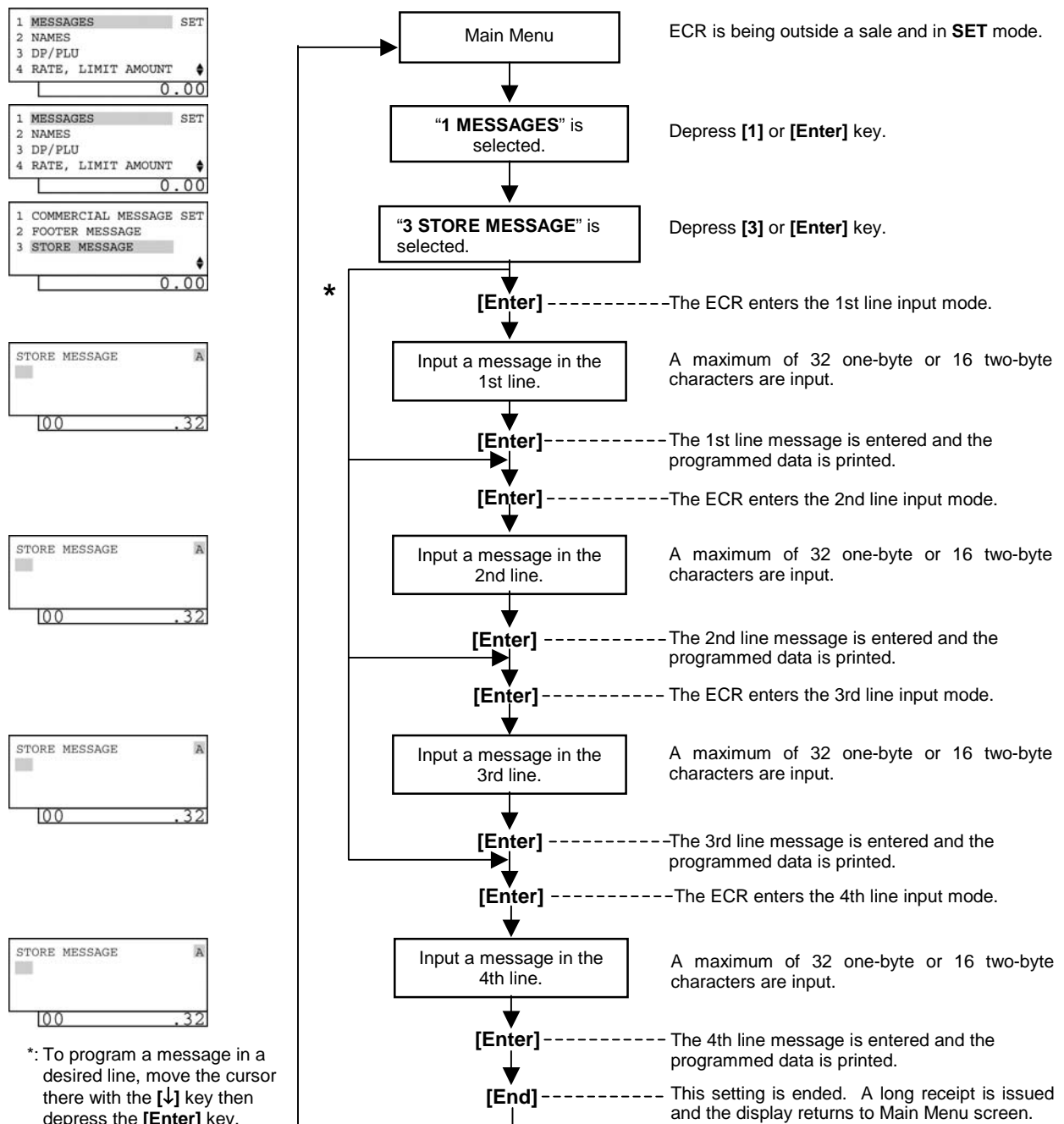
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



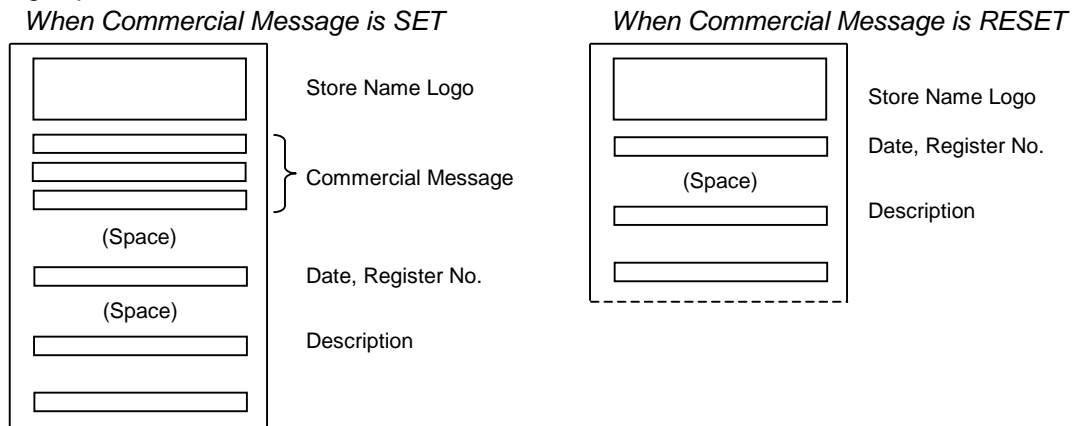
2) Operation Flowchart



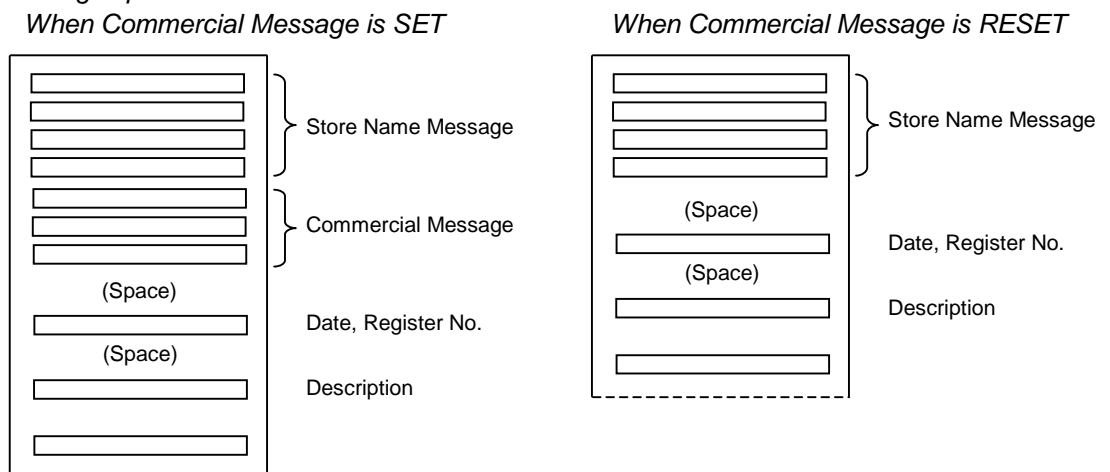
NOTES:

1. For each line, a maximum of 32 one-byte characters or 16 two-byte characters can be entered.
A combination of both types is also available.
2. When blanks are entered for the whole one line, it results in one line feed.
3. When the store name message specification has been selected, the 4-line range assigned for the store name message is either printed or fed, regardless of any program option selection.
4. Print format for each specification is as shown below.




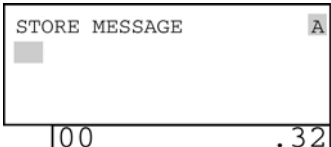
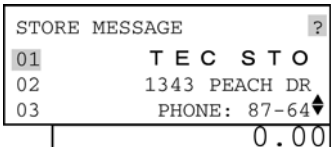
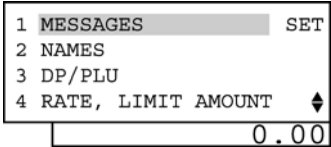
1) Store Name Logo specification



2) Store Name Message specification



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Operation	LCD Display	Remarks
The [Enter] key depression results in that the input message is entered and displayed.		<p>When the [Enter] key is depressed, the message programmed in the 2nd line is printed.</p> <p>Example of key operation) [->] [->] [->] [->] [->] [->] [->] [->] [3] [0] [1] [#] [3] [0] [3] [#] [3] [0] [4] [#] [3] [0] [3] [#] [->] [P] [E] [A] [C] [H] [->] [D] [R] [I] [V] [E] [Enter]</p>
The [Enter] key depression allows the ECR to enter the 3rd line message input mode. (The [C] key depression clears the message already programmed.) The 3rd line message is input.		<p>Numbers of programmed characters and of programmable characters are displayed on the 7-segment numeric display.</p>
The [Enter] key depression results in that the input message is entered and displayed.		<p>When the [Enter] key is depressed, the message programmed in the 3rd line is printed.</p> <p>Example of key operation) [->] [->] [->] [->] [->] [->] [->] [->] [P] [H] [O] [N] [E] [3] [1] [0] [#] [->] [3] [0] [8] [#] [3] [0] [7] [#] [2] [1] [3] [#] [3] [0] [6] [#] [3] [0] [4] [#] [3] [0] [3] [#] [3] [0] [7] [#] [Enter]</p>
The [Enter] key depression allows the ECR to enter the 4th line message input mode. (The [C] key depression clears the message already programmed.) The 4th line message is input.		<p>Numbers of programmed characters and of programmable characters are displayed on the 7-segment numeric display.</p>
The [Enter] key depression results in that the input message is entered and displayed.		<p>When the [Enter] key is depressed, the message programmed in the 4th line is printed.</p> <p>Example of key operation) [Enter] (No message is input.)</p>
The [End] key depression allows the ECR to end this programming.		<p>A long receipt is issued and the display returns to Main Menu screen.</p>

NOTE: In the above example, characters except for alphabets are entered using the character code entry method.



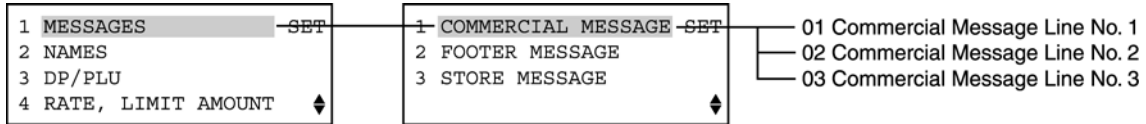
4.6 Commercial Message Programming

A maximum of 96 characters of Commercial Message (32 characters x 3 lines) to be printed on the receipt is programmed here.

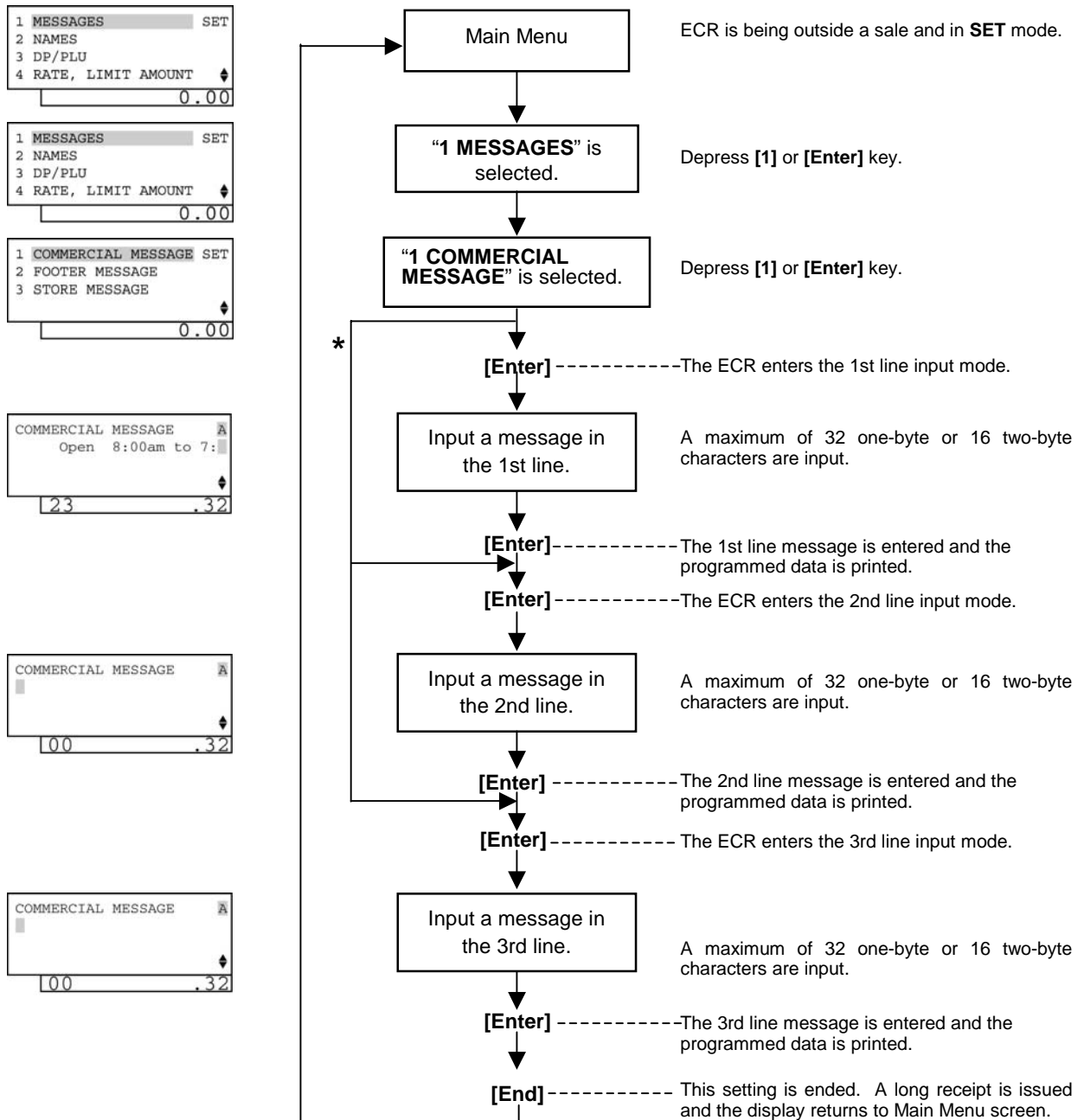
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



*: To program a message in a desired line, move the cursor there with the [↓] key then depress the [Enter] key.

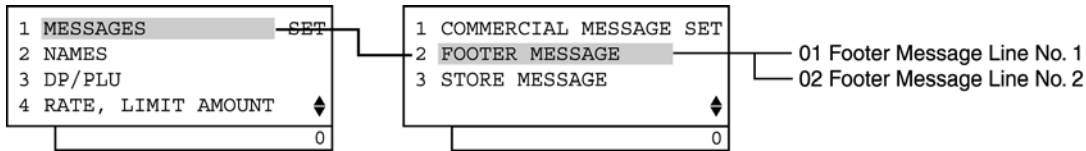
4.7 Footer Message Programming

A maximum of 64 characters of Footer Message (32 characters x 2 lines) to be printed on the receipt is programmed here. This programming is possible only when it has been selected by the program option.

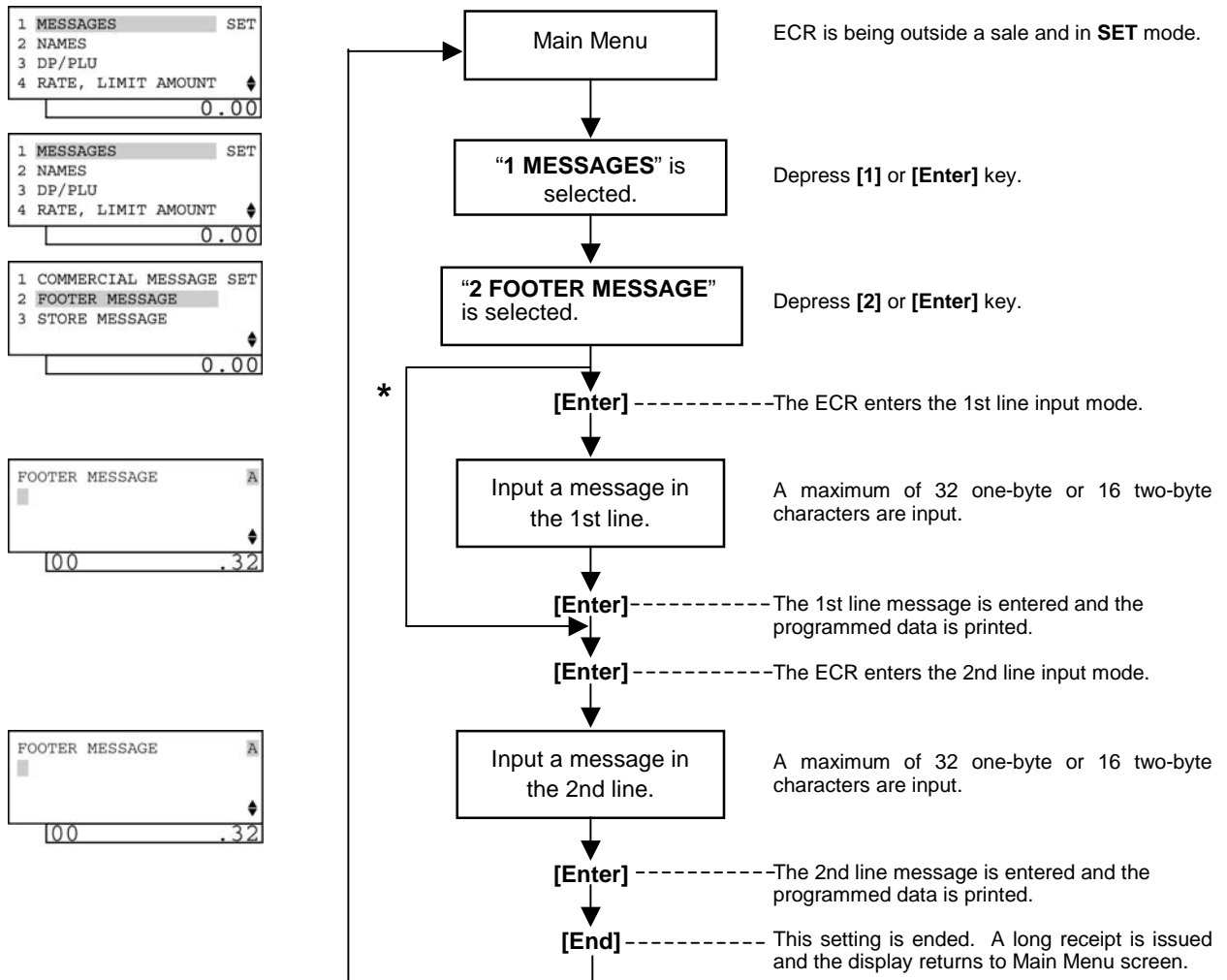
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart

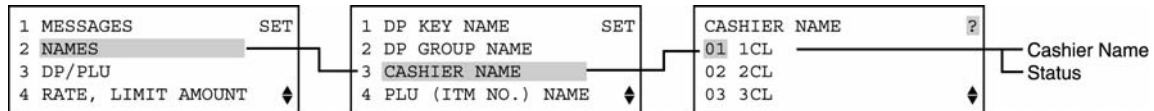


4.8 Cashier Name and Status Programming

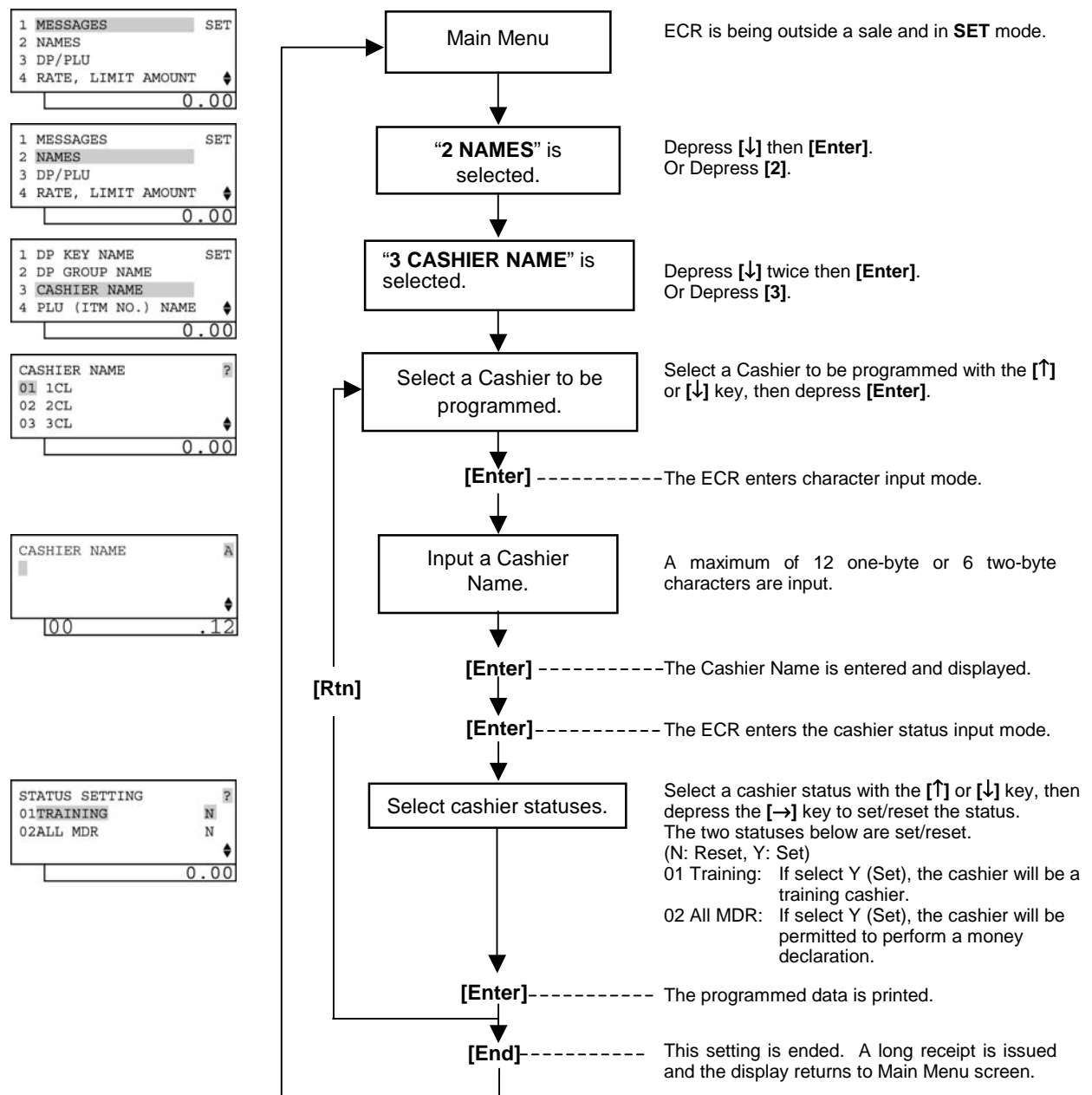
Cashier Name and Cashier Status for each cashier can be programmed here.

- CONDITION** Any time outside a sale
- OPERATION** Mode Lock: **SET**

1) Menu Tree

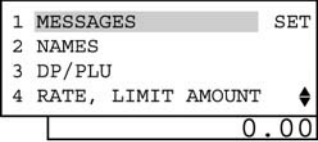
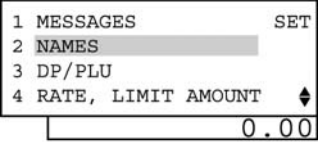
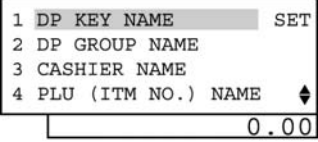
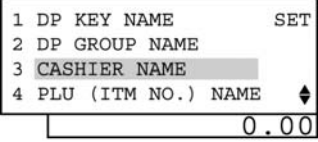
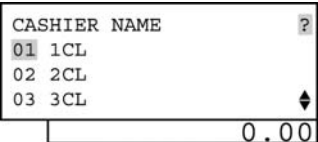
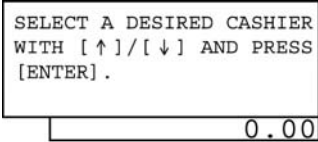
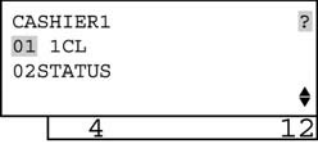
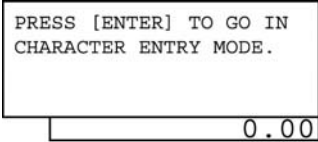


2) Operation Flowchart



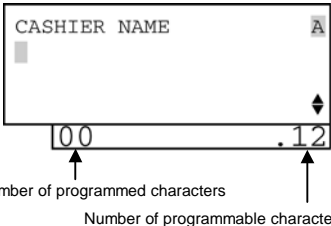
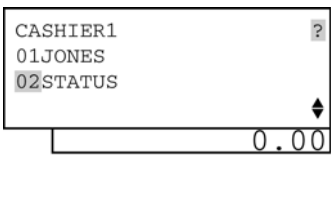
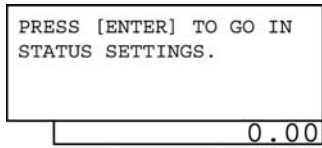
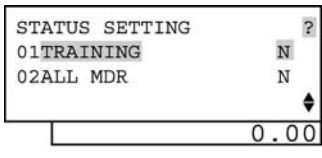
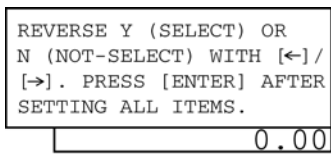
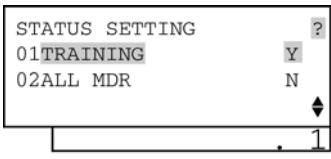
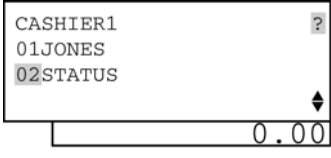
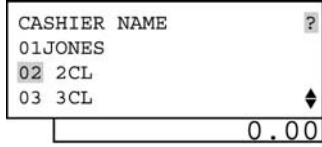
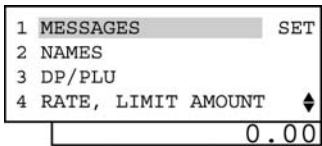
NOTES:

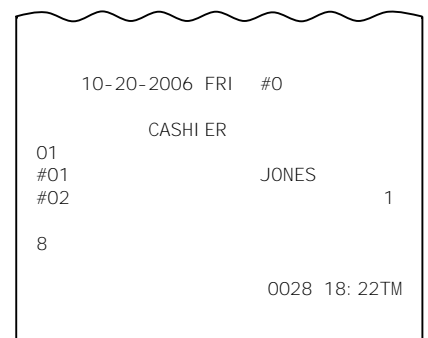
1. Cashiers 1 to 8 are programmed with the names "1CL" to "8CL" as default setting.
 2. For the name of each cashier, a maximum of 12 one-byte or 6 two-byte characters can be entered.
A combination of both types is also available.
 3. Training entry status is available for every cashier.
 4. Prior to the change of cashier status (Normal cashier → Training cashier, or Training cashier → Normal Cashier), daily reports and GT reports of this cashier should be taken.
- 3) Example
To program the following cashier data.
Cashier 1: JONES (cashier name), Training Cashier (status)

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key.		The cursor is moved on to "2 NAMES".
Depress the [2] or [Enter] key.		"2 NAMES" is selected.
Depress the [↓] key twice.		The cursor is moved on to "3 CASHIER NAME".
Depress the [3] or [Enter] key.		"3 CASHIER NAME" is selected.
The cashier name already programmed is displayed.		While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that the following guidance message appears on the LCD display. 
The [Enter] key depression allows the ECR to enter Cashier 1 programming mode menu. (To program a desired cashier, select the cashier with the [↓] key then depress the [Enter] key.)		While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that the following guidance message appears on the LCD display. 

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Operation	LCD Display	Remarks
<p>The [Enter] key depression allows the ECR to enter the cashier 1 name input mode. (The [C] key depression clears the name already programmed.) The cashier 1 name is input.</p>		<p>Numbers of programmed characters and of programmable characters are displayed on the 7-segment numeric display.</p> <p>Example of key operation) [J] [O] [N] [E] [S] [Enter]</p>
<p>The [Enter] key depression results in that the input name is entered and displayed.</p>		<p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
<p>The next [Enter] key depression allows the ECR to enter the cashier 1 status input mode.</p>		<p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
<p>Select the status of 01 TRAINING with the [→] key.</p>		<p>The [→] key depression results in that the status is changed from N to Y.</p>
<p>The [Enter] key depression results in that the Cashier 1 programming data is entered.</p>		<p>When the [Enter] key is depressed, the programmed data is printed.</p> <p>When the [Rtn] key is depressed after the [Enter] key, the programming operation for another cashier can be performed.</p> 
<p>The [End] key depression allows the ECR to end this programming.</p>		<p>A long receipt is issued and the display returns to Main Menu screen.</p>



4.9 Department Table Programming

For each department, memory opening, and department various statuses settings are performed here.

CONDITION

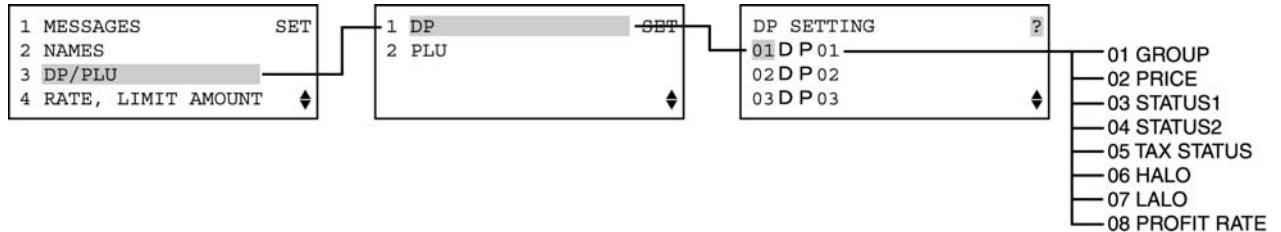
To change the positive/negative status:
After Department and PLU Daily and GT Resets

To change any other programmed data or to newly program departments:
Any time outside a sale

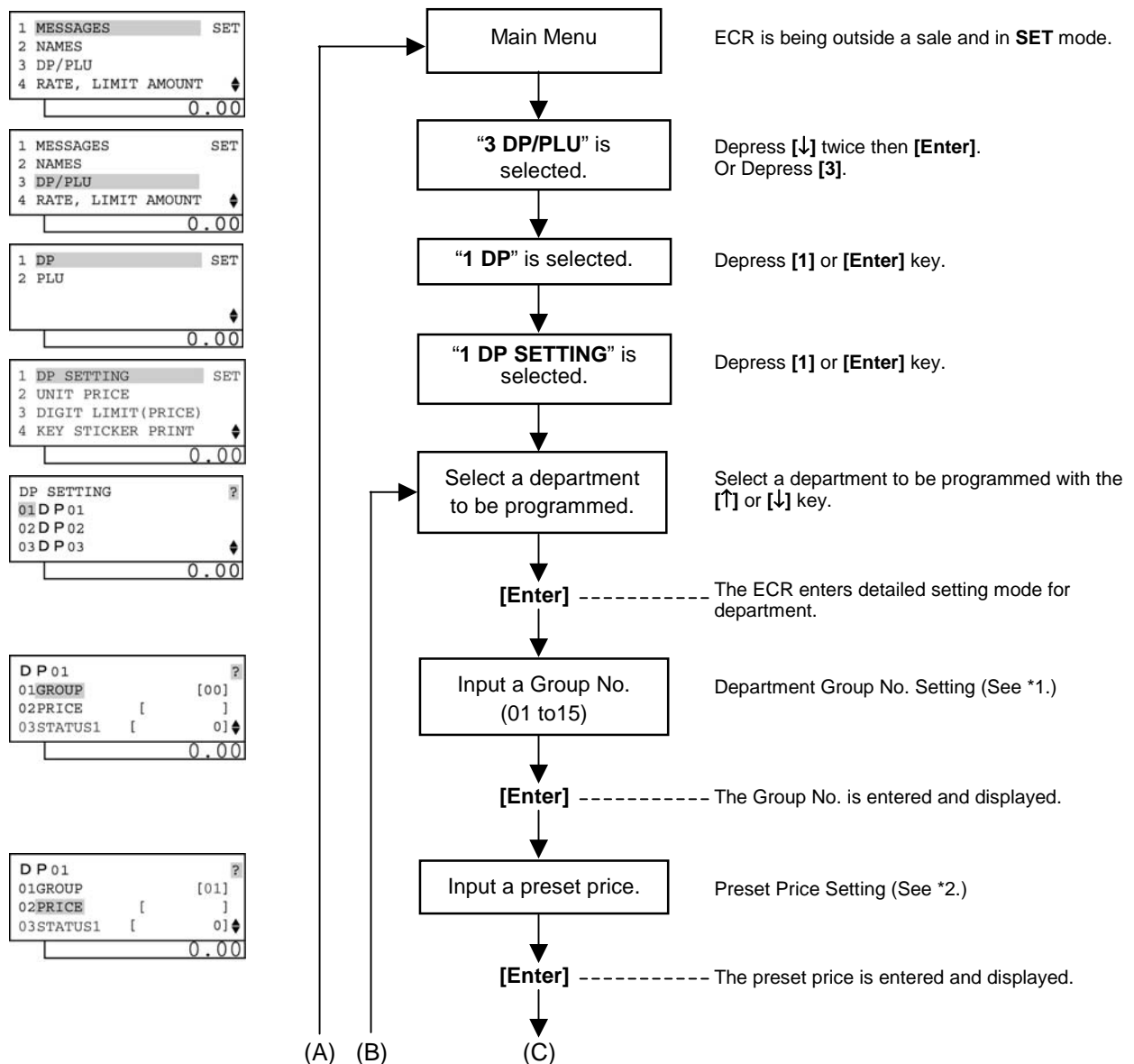
OPERATION

Mode Lock: **SET**

1) Menu Tree

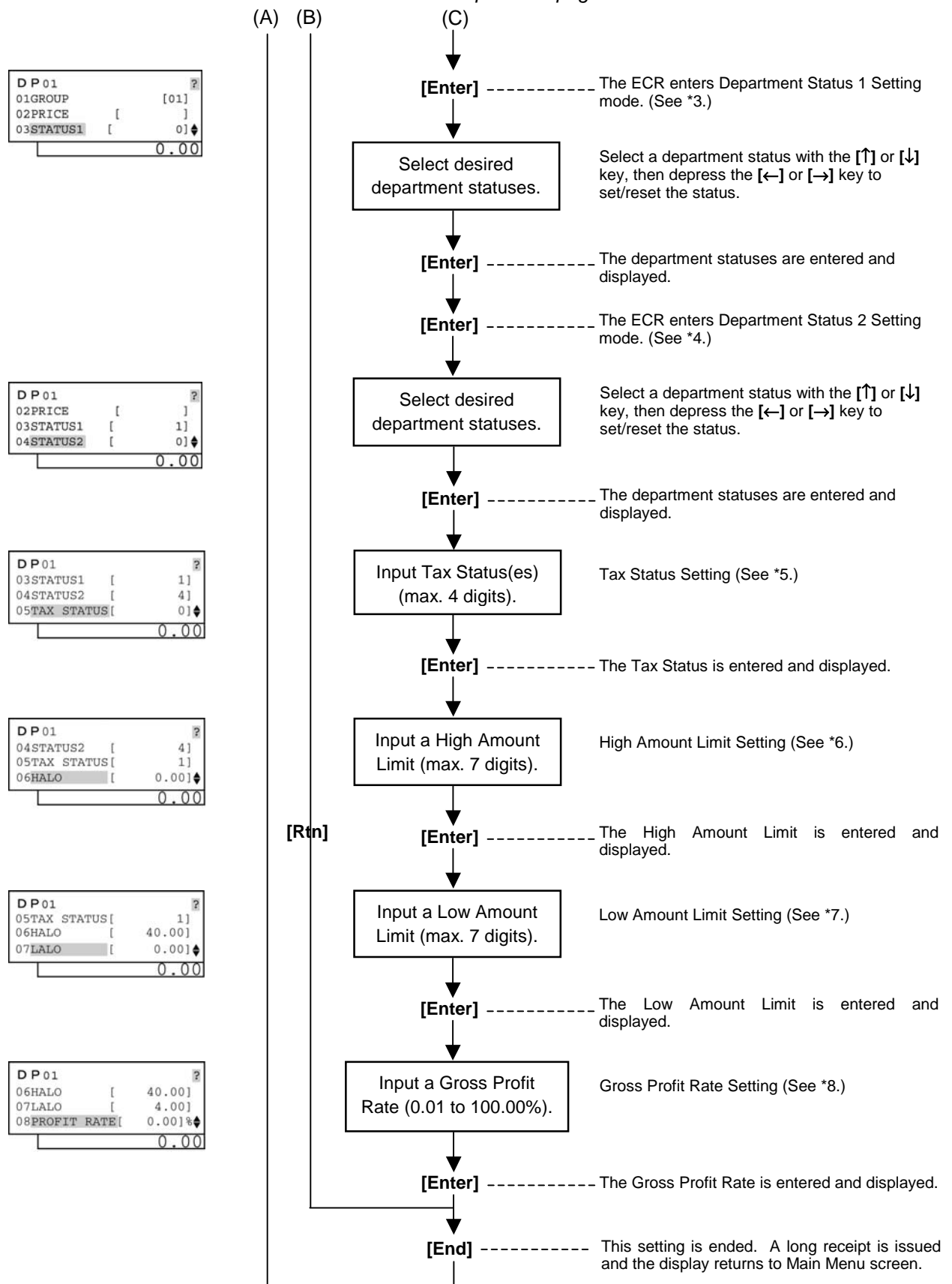


2) Operation Flowchart



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***1: Department Group No.**

- Input a department group code (2 digits: 01 to 15), then depress the **[Enter]** key.
- To cancel a department group, input **0** then depress the **[Enter]** key.
- All departments can be programmed in a group. Negative departments are added to the group total.

***2: Preset Price**

- For a preset department (preset-price department), enter a maximum of 6-digit price, and depress the **[Enter]** key.
1 to 999999 (result: 0.01 to 9999.99)
- A zero-price (0.00) may be preset by entering 0 in the above operation.
- When no numeric value is entered and the **[Enter]** key is simply depressed, the department will be an open department (open-price department).

***3: Department Status 1**

- The status ON or OFF is selected with the **[←]** and **[→]** keys.
- The status change between positive and negative should be performed after performing a department/PLU daily and GT resets.
- The following shows each department status.

Status Code	Item	Selective Status	
		ON (Y)	OFF (N)
1	Single-item or Itemized Receipt	Single-item	Itemized
2	HASH or Ordinary Department	HASH	Ordinary
3	Positive or Negative Department	Negative	Positive
4	Food Stamp Status	Yes	No
5	-- vacant --		
6	-- vacant --		
7	Validation Compulsory	Compulsory	Optional
8	-- vacant --		

NOTE:

Code 7: Validation Compulsory status is effective not for the PLU entry but for the department entry.

***4: Department Status 2**

- The following shows each department status.

Status Code	Item	Selective Status	
		ON (Y)	OFF (N)
1	-- vacant --		
2	-- vacant --		
3	-- vacant --		
4	Tax Symbol "F" Print	Print	Non-print
5	Canada Non-taxable Quantity	Objective	Not objective
6	-- vacant --		
7	-- vacant --		
8	-- vacant --		

NOTE:

Code 4: Tax Symbol "F" Print

Tax symbol "F" is printed when this code has been set "ON" to a taxable department. If the Food Stamp feature has been selected, this symbol "F" will be always printed regardless of this code status when a food stamp taxable department is entered.

In Canada, some area handles two kinds of taxes; GST and PST.

Status Code 4 (Tax Symbol "F" Print) should be set at the GST status setting.

Tax Symbol "T" PST

Tax Symbol "F" GST

***5: Tax Status**

- Enter one- to four-digit status codes for applicable taxes. Or enter 0 if the department handles non-taxable items.

[Enter]

0: Non-taxable

1: Tax 1 (Tax 1 taxable)

2: Tax 2 (Tax 2 taxable)

3: Tax 3 (Tax 3 taxable)

4: Tax 4 (Tax 4 taxable)

(More than one code can be entered for combining Tax1 to Tax4 taxable statuses.

For example, enter 12 to select Tax1 and Tax2 taxable status.)

***6: High Amount Limit**

- Enter a maximum of 7 digits to be set as the high amount to be locked out.

Example) To prohibit any amount equal to or larger than 40.00:

4000 [Enter]

(Allows any amount equal to or smaller than 39.99.)

NOTES:

- Input 0 to cancel the preset limit (i.e. to allow any amount).
- The limit amount set here will be applied to entries in **REG** mode only, but not in **MGR** or mode.
- Even if a value other than zero is entered all the digits other than the highest digit, it will be regarded as a zero.
Example) Entering 4001 to 4999 will all result in setting 4000.

***7: Low Amount Limit**

- Enter a maximum of 7 digits to be set as the low amount limit.

Example) To prohibit any amount smaller than 4.00:

400 [Enter]

(Prohibits any amount smaller than 4.00.)

NOTES:

- Input 0 to cancel the preset limit (i.e. to allow any amount).
- The limit amount set here will be applied to entries in **REG** mode only, but not in **MGR** or mode.
- Even if a value other than zero is entered all the digits other than the highest digit, it will be regarded as a zero.
Example) Entering 401 to 499 will all result in setting 400.

***8: Gross Profit Rate**

- Enter the gross profit rate of the department in a maximum of 3 integer digits and 2 decimal digits.

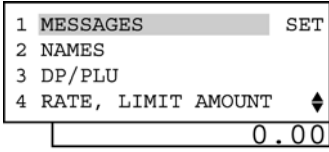
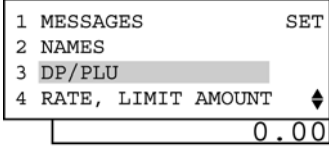
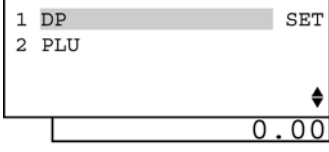
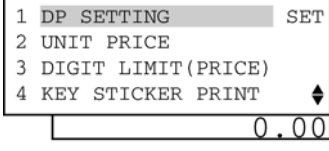
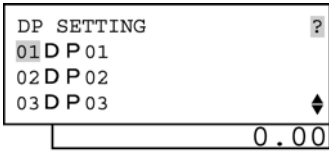
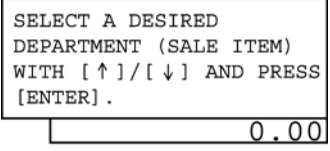
[Enter] or [.] [Enter]
0 to 100 (%) 0.01 to 99.99 (%)

- The calculated gross profit will be outputted to the DEPARTMENT GROSS PROFIT REPORT.
- The fraction resulted from the profit calculation will be discarded.
- To cancel the gross profit rate once set, input 0 in place of a specific rate before [Enter]. The department whose gross profit rate has thus been canceled will not be outputted in the GROSS PROFIT REPORT.

3) Example

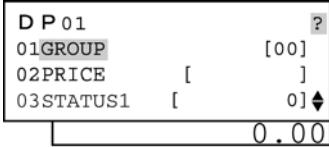
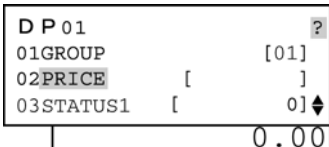
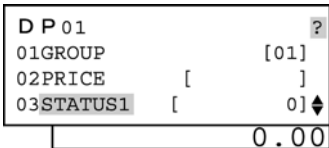
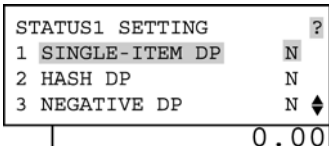
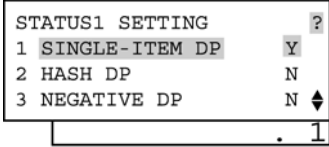
To program the following Department Data

Department Code: 01
 Department Group No.: 01
 Preset Price: Open
 Department Status 1: Single-item receipt
 Department Status 2: Tax symbol "F" Print
 Tax Status: Tax 1
 HALO: \$40.00
 LALO: \$4.00
 Gross Profit Rate: 10.00%

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key twice.		The cursor is moved on to "3 DP/PLU".
Depress the [3] or [Enter] key.		"3 DP/PLU" is selected.
Depress the [1] or [Enter] key.		"1 DP" is selected.
Depress the [1] or [Enter] key.		"1 DP SETTING" is selected.
Depress the [Enter] key. Screen <1>: See NOTE below.		Department 01 is selected. While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that the following guidance message appears on the LCD display.
		

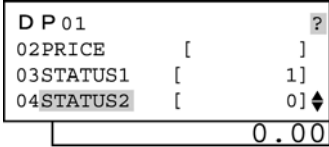
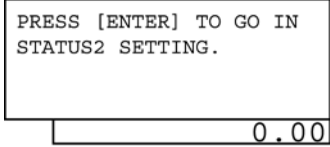
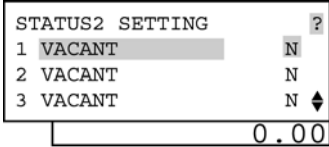
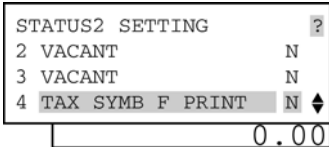
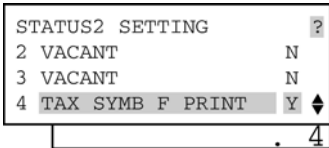
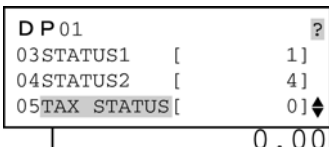
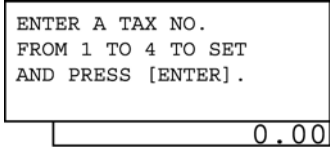
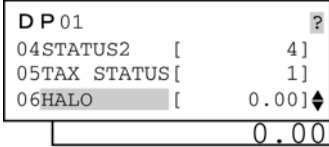
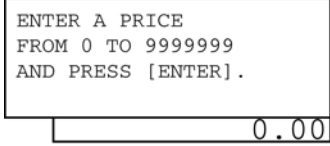
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Operation	LCD Display	Remarks
Input 01 (or 1), then depress the [Enter] key.		Department Group No. 01 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> ENTER A GROUP NO. FROM 0 TO 15 AND PRESS [ENTER]. </div>
Depress the [Enter] key.		Open price is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> ENTER A PRICE AND PRESS [ENTER]. OPEN-PRICE IS SET BY NO PRICE ENTRY. </div>
The [Enter] key depression allows the ECR to enter Department Status 1 setting menu.		The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> PRESS [ENTER] TO GO IN STATUS1 SETTING. </div>
Move the cursor on to a desired status setting with the [↓] or [↑] key.		"1 SINGLE-ITEM DP" is selected. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> REVERSE Y (SELECT) OR N (NOT-SELECT) WITH [←] / [→]. PRESS [ENTER] AFTER SETTING ALL ITEMS. </div>
Depress the [→] key.		The [→] key depression results in that the status is changed from N to Y . (The ON status of SINGLE-ITEM DP is selected.)

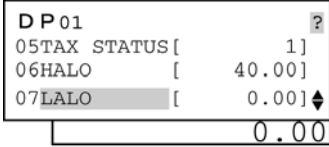
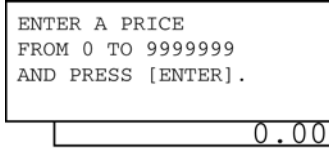
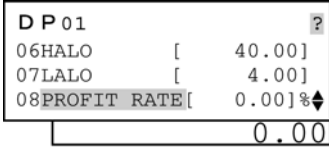
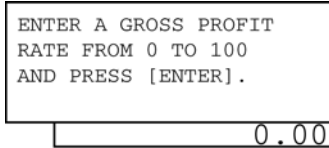
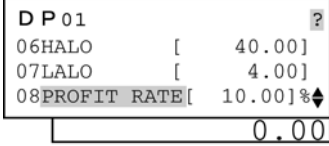
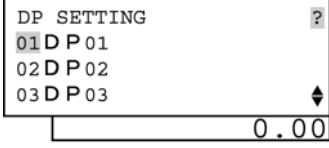
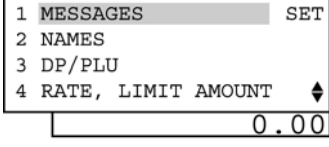
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Operation	LCD Display	Remarks
Depress the [Enter] key.		<p>The Department Status 1 is set and the selected status code is displayed.</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
The [Enter] key depression allows the ECR to enter Department Status 2 setting menu.		
Depress the [↓] key three times.		<p>4 TAX SYMB "F" PRINT is selected.</p>
Depress the [→] key.		<p>The [→] key depression results in that the status is changed from N to Y.</p> <p>(The ON status of TAX SYMB "F" PRINT is selected.)</p>
The [Enter] key depression allows the ECR to enter Tax Status setting menu.		<p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
Input 1 , then depress the [Enter] key.		<p>Tax 1 is selected.</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 

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Operation	LCD Display	Remarks
Input 4000 , then depress the [Enter] key.		<p>High amount limit \$40.00 is set.</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
Input 400 , then depress the [Enter] key.		<p>Low amount limit \$4.00 is set.</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> 
Input 10 , then depress the [Enter] key.		<p>Gross Profit Rate 10% is set.</p>
Depress the [Rtn] key.		<p>The display returns to the Department Setting screen.</p> <p>Move the cursor on to another desired department with the [↓] or [↑] key, then depress the [Enter] key.</p>
The [End] key depression allows the ECR to end this programming.		<p>A long receipt is issued and the display returns to Main Menu screen.</p>

TEC STORE
 1343 PEACH DRIVE
 PHONE: 87-6437

Open 8:00am to 7:00pm
 Closed: every Wednesday

10-20-2006 FRI #0

DP

01 DP01	01
#01	0.00@
#02	1
#03	4
#04	1
#05	\$40.00
#06	\$4.00
#07	10%
#08	

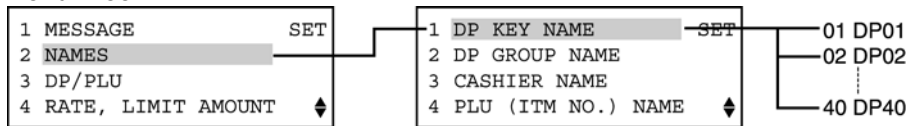
0016 13:37TM

4.10 Department Name Programming

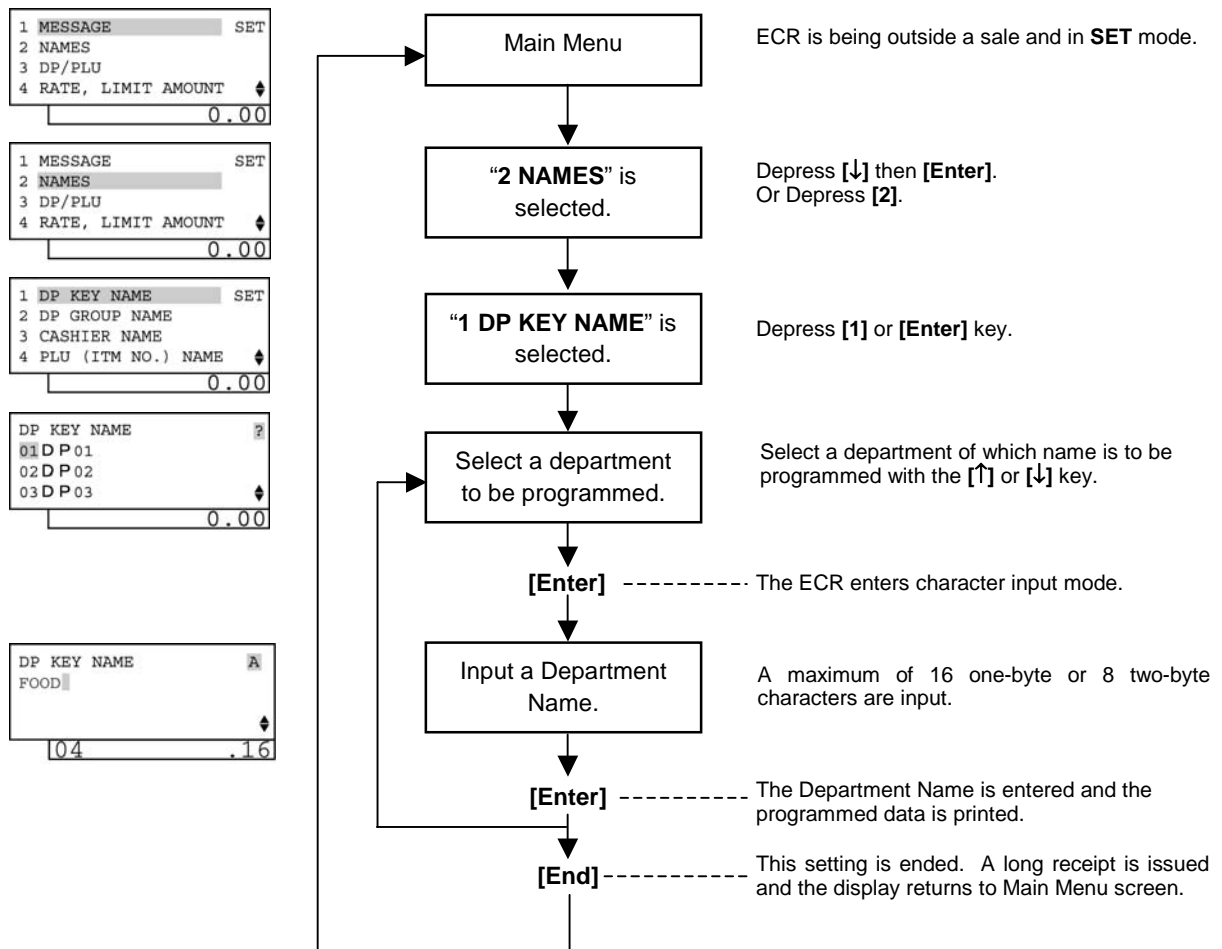
A maximum of 16 characters of department name is programmed here.

- CONDITION** Any time outside a sale
- OPERATION** Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



NOTE: A maximum of 16 one-byte characters or 8 two-byte characters can be entered. A combination of both types is also available.

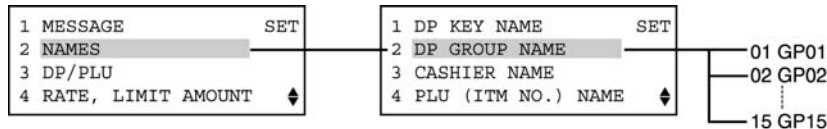
4.11 Department Group Name Programming

In this operation, the name of each Department Group is programmed. Which Departments are linked to each Group has been set in the DEPARTMENT TABLE PROGRAMMING operation. A maximum of 15 department groups can be set.

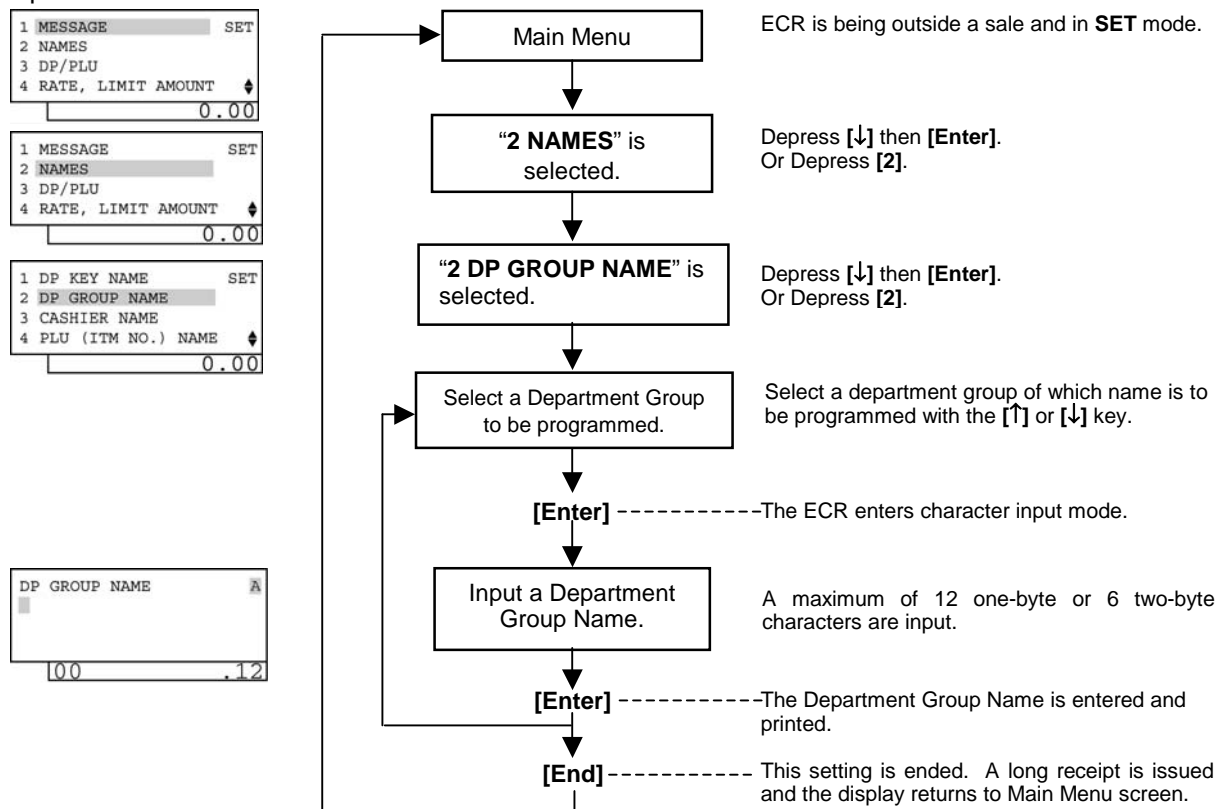
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



NOTE: A maximum of 12 one-byte characters or 6 two-byte characters can be entered. A combination of both types is also available.

4.12 PLU Table Programming

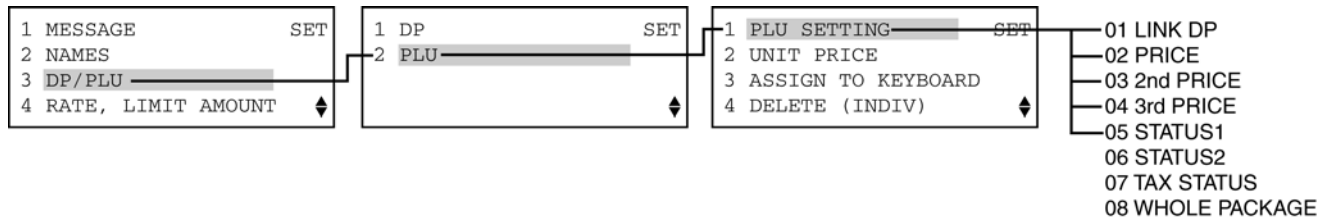
This programming can be operated when new PLU items are to be added, PLU program data is to be changed, or PLUs are to be deleted.

4.12.1 Programming or Changing

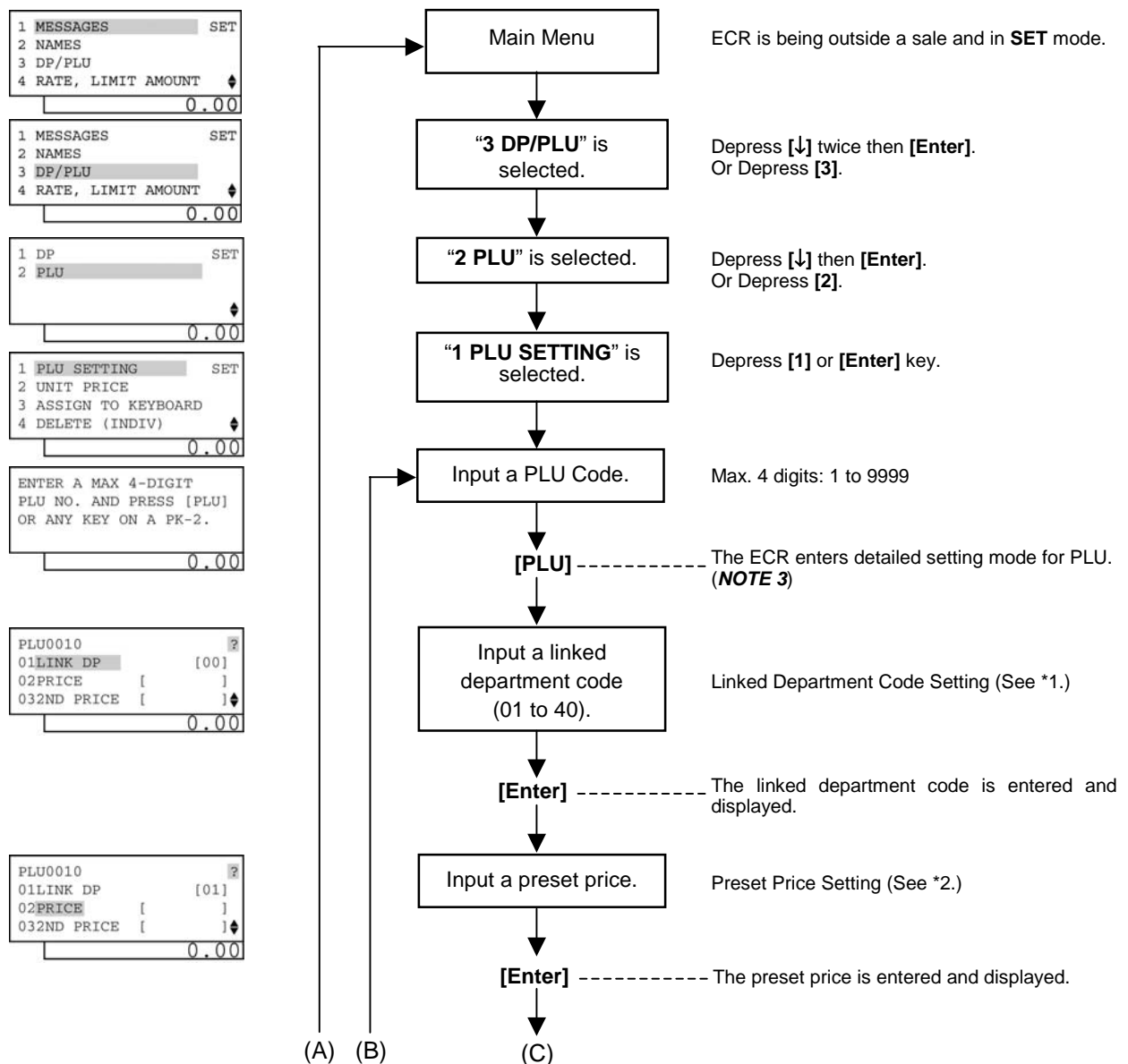
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree

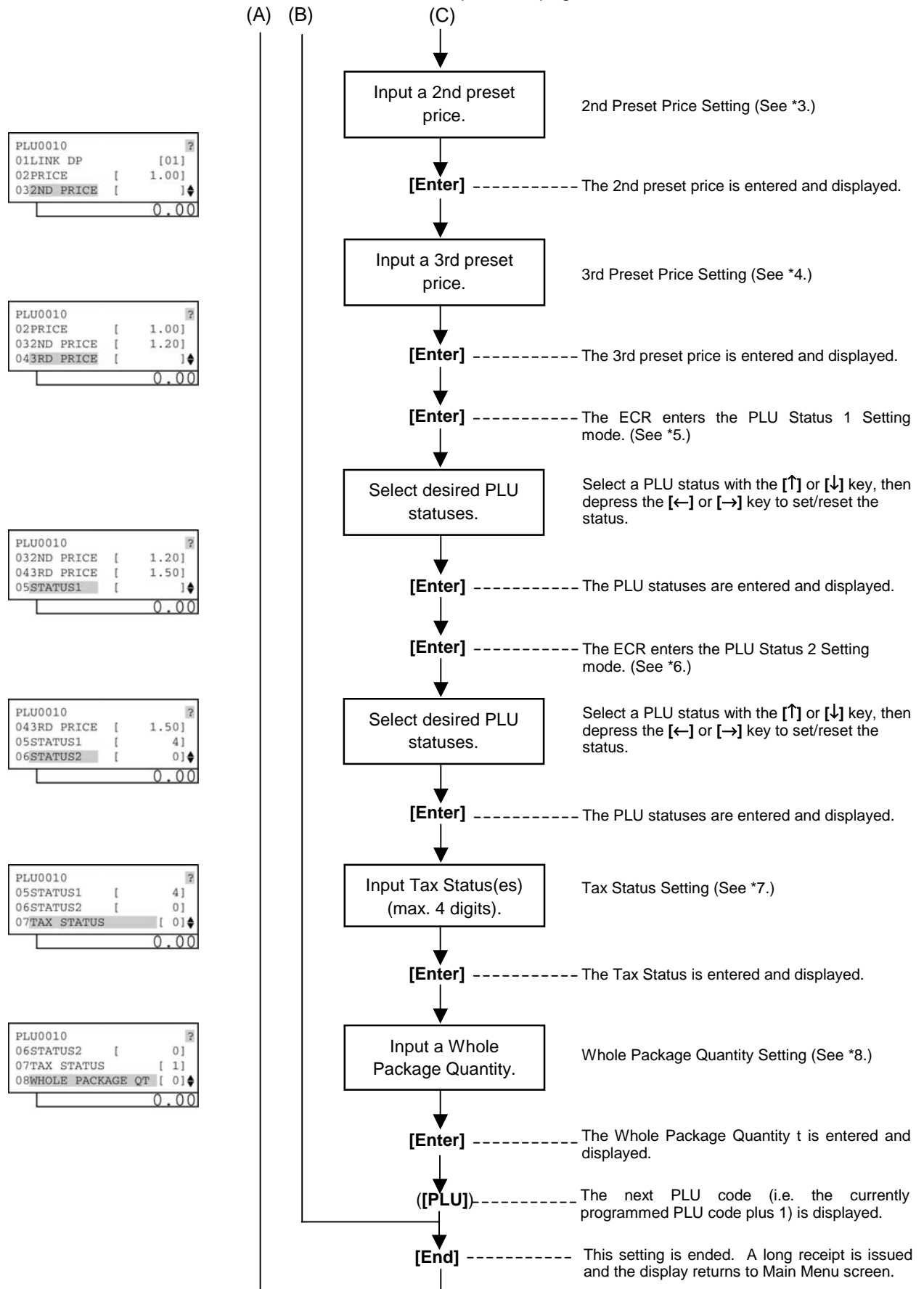


2) Operation Flowchart



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NOTES:

1. A maximum of 1,000 PLUs are programmable.
2. If a PLU is linked to a negative department, the PLU is automatically set as negative PLU.
3. The **[PLU]** key here indicates the key labeled simply as "PLU" but not any PLU preset-code keys.

***1: Linked Department Code**

- Enter a 2-digit code of the department to which the PLU is linked.
When the PLU is newly programmed, this entry is compulsory (an error will result if this entry is skipped.)

--	--

[Enter]
01 to 40

***2: Preset Price**

- For a preset PLU (preset-price PLU), enter a maximum of 6-digit price, and depress the **[Enter]** key.
1 to 999999 (result: 0.01 to 9999.99)
- A zero-price (0,00) may be preset by entering 0 in the above operation.
- When no numeric value is entered and the **[Enter]** key is simply depressed, the PLU will be an open PLU (open-price PLU).

***3: 2nd Preset Price**

- For a preset PLU (preset-price PLU), enter a maximum of 6-digit price, and depress the **[Enter]** key.
1 to 999999 (result: 0.01 to 9999.99)
- A zero-price (0,00) may be preset by entering 0 in the above operation.
- If the 2nd preset price entry is skipped, the 1st preset price will be automatically programmed as the 2nd preset price.

***4: 3rd Preset Price**

- For a preset PLU (preset-price PLU), enter a maximum of 6-digit price, and depress the **[Enter]** key.
1 to 999999 (result: 0.01 to 9999.99)
- A zero-price (0,00) may be preset by entering 0 in the above operation.
- If the 3rd preset price entry is skipped, the 1st preset price will be automatically programmed as the 3rd preset price.

***5: PLU Status 1**

- The status ON or OFF is selected with the **[←]** and **[→]** keys.
- The following shows each PLU status.

Status Code	Item	Selective Status	
		ON (Y)	OFF (N)
1	Quantity Entry Compulsion	Compulsory	Optional
2	-- vacant --		
3	-- vacant --		
4	Food Stamp Status	Yes	No
5	-- vacant --		
6	-- vacant --		
7	-- vacant --		
8	-- vacant --		

NOTE:**Code 1: Quantity Entry Compulsion**

When this status is selected, the quantity entry is always necessary for PLU item entry. However, if the **[3rd PRICE]** key is depressed, this status will be ignored.

*6: PLU Status 2

- The following shows each department status.

Status Code	Item	Selective Status	
		ON (Y)	OFF (N)
1	Price Print	Non-print	Print
2	-- vacant --		
3	-- vacant --		
4	Tax Symbol "F" Print	Print	Non-print
5	Canada Non-taxable Quantity	Objective	Not objective
6	-- vacant --		
7	-- vacant --		
8	-- vacant --		

NOTE:

Code 1: Price Print

When this status is set to ON (Non-print), PLU price will not be printed. However, when the Quantity Extension transaction is performed for the PLU, its price will always be printed regardless of this status selection. Do not set this status code ON.

Code 4: Tax Symbol "F" Print

Tax symbol "F" is printed when this code has been set "ON" to a taxable PLU. If the Food Stamp feature has been selected, this symbol "F" will always be printed regardless of this code status when a food stamp taxable department is entered.

In Canada, some area handles two kinds of taxes; GST and PST.

Status Code 4 (Tax Symbol "F" Print) should be set at the GST status setting.

Tax Symbol "T" PST

Tax Symbol "F" GST

*7: Tax Status

- Enter one- to four-digit status codes for applicable taxes. Or enter 0 to cancel the taxable status. (i.e. Non-taxable status is set to the PLU.)

[Enter]

0: Non-taxable

1: Tax 1 (Tax 1 taxable)

2: Tax 2 (Tax 2 taxable)

3: Tax 3 (Tax 3 taxable)

4: Tax 4 (Tax 4 taxable)

(More than one code can be entered for combining Tax 1 to Tax 4 taxable statuses.

For example, enter 12 to select Tax 1 and Tax 2 taxable status.)

*8: Whole Package Quantity (for Split Package Pricing PLUs)

- Enter a whole package quantity in a maximum of 2 digits (1 to 99). Or enter 0 to cancel the Split Package Pricing status.

[Enter]

0 to 99

3) Example

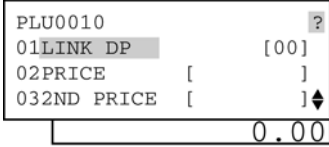
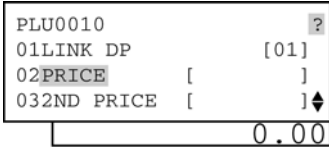
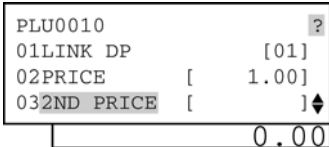
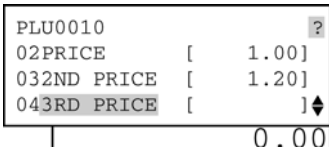
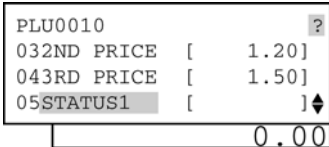
To program the following PLU data:

PLU Code: 0010
 Linked Department: Department 1
 Preset Price: \$1.00
 2nd Preset Price: \$1.20
 3rd Preset Price: \$1.50
 PLU Status 1: 4 (Food Stamp Status)
 PLU Status 2: None
 Tax Status: 1 (Tax 1)
 Whole Package Quantity: 3

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key twice.		The cursor is moved on to "3 DP/PLU".
Depress the [3] or [Enter] key.		"3 DP/PLU" is selected.
Depress the [↓] key.		The cursor is moved on to "2 PLU".
Depress the [2] or [Enter] key.		"2 PLU" is selected.
Depress the [1] or [Enter] key.		"1 PLU SETTING" is selected.
Input 0010 (or 10), then depress the [PLU] key.		PLU Code 0010 is set. PLU Code: Max. 4 digits (1 to 9999)

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Operation	LCD Display	Remarks
Input 01 (or 1), then depress the [Enter] key.		Linked Department 1 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> ENTER A LINK DP CODE AND PRESS [ENTER]. </div>
Input 100 , then depress the [Enter] key.		Preset Price \$1.00 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> ENTER A PRICE AND PRESS [ENTER]. OPEN-PRICE IS SET BY NO PRICE ENTRY. </div>
Input 120 , then depress the [Enter] key.		2nd Preset Price \$1.20 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> ENTER A PRICE AND PRESS [ENTER]. OPEN-PRICE IS SET BY NO PRICE ENTRY. </div>
Input 150 , then depress the [Enter] key.		3rd Preset Price \$1.50 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> ENTER A PRICE AND PRESS [ENTER]. OPEN-PRICE IS SET BY NO PRICE ENTRY. </div>
The [Enter] key depression allows the ECR to enter PLU Status 1 setting menu.		The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> PRESS [ENTER] TO GO IN STATUS1 SETTING. </div>

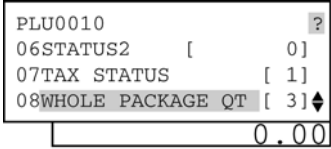
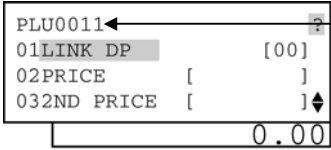
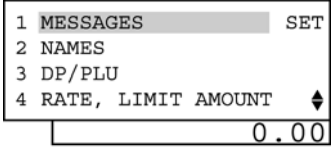
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Operation	LCD Display	Remarks
Depress the [↓] key three times.	<pre> STATUS1 SETTING ? 1 QTY ENTRY COMP N 2 VACANT N 3 VACANT N 4 VACANT N 0.00 </pre>	<p>"4 FOOD STAMPABLE" is selected.</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> <pre> REVERSE Y (SELECT) OR N (NOT-SELECT) WITH [←] / [→]. PRESS [ENTER] AFTER SETTING ALL ITEMS. 0.00 </pre>
Depress the [→] key.	<pre> STATUS1 SETTING ? 2 VACANT N 3 VACANT N 4 FOOD STAMPABLE N 0.00 </pre>	<p>The [→] key depression results in that the status is changed from N to Y.</p> <p>(The ON status of FOOD STAMPABLE is selected.)</p>
Depress the [Enter] key.	<pre> STATUS1 SETTING ? 2 VACANT N 3 VACANT N 4 FOOD STAMPABLE Y .4 </pre>	<p>The PLU Status 1 is set and the selected status code is displayed.</p>
Depress the [↓] key.	<pre> PLU0010 ? 043RD PRICE [1.50] 05STATUS1 [4] 06STATUS2 [0] 0.00 </pre>	
Depress the [↓] key.	<pre> PLU0010 ? 05STATUS1 [4] 06STATUS2 [0] 07TAX STATUS [0] 0.00 </pre>	<p>The cursor is move on to "6 TAX STATUS".</p> <p>The [?] key depression results in that the following guidance message appears on the LCD display.</p> <pre> ENTER A TAX NO. FROM 1 TO 4 TO SET AND PRESS [ENTER]. 0.00 </pre>
Input 1, then depress the [Enter] key.	<pre> PLU0010 ? 06STATUS2 [0] 07TAX STATUS [1] 08WHOLE PACKAGE QT [0] 0.00 </pre>	<p>Tax 1 is selected.</p>

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Operation	LCD Display	Remarks
Input 3 , then depress the [Enter] key.		Whole Package Quantity 3 is set. The [?] key depression results in that the following guidance message appears on the LCD display. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> ENTER A WHOLE PACKAGE QTY FROM 0 TO 99 AND PRESS [ENTER]. </div>
The [PLU] key depression completes the programming for PLU code 0010. (Addition of new PLUs and changes of current PLUs can be performed.)		When the [PLU] key is depressed, the next PLU code (i.e. the currently programmed PLU code plus 1) is displayed here.
The [End] key depression allows the ECR to end this programming.		A long receipt is issued and the display returns to Main Menu screen.

```

10-20-2006 FRI #0

      PLU
0010 PLU0010
#01                01
#02                1.00@
#03                1.20@
#04                1.50@
#05                4
#07                1
#08                3

0001

                                0020 13:45TM
                    
```

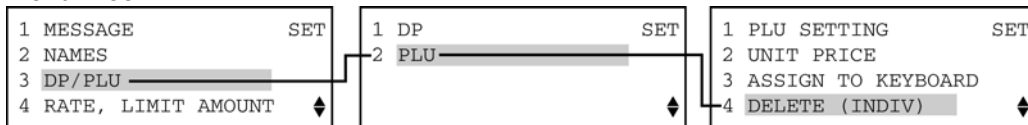
4.12.2 Deletion

CONDITION To delete a PLU with sales data of zero: Any time outside a sale
 To delete a PLU with sales data of not zero: After PLU Reset

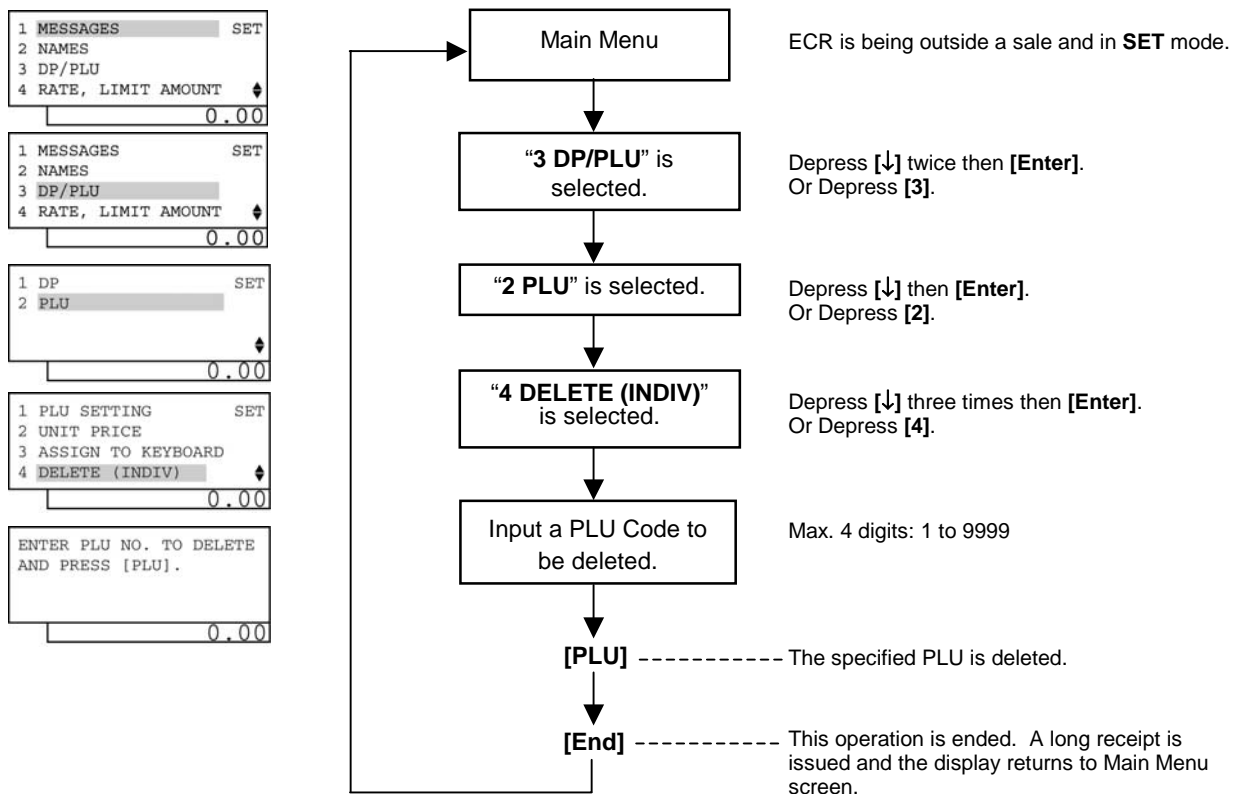
OPERATION Mode Lock: **SET**

Individual PLU Deletion: The programmed PLU data is deleted individually.

1) Menu Tree

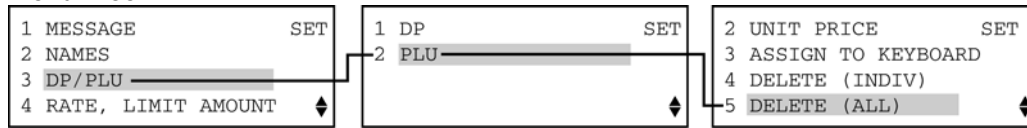


2) Operation Flowchart



All PLU Deletion: The programmed PLU data is deleted entirely.

1) Menu Tree



2) Operation

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key twice.		The cursor is moved on to "3 DP/PLU".
Depress the [3] or [Enter] key.		"3 DP/PLU" is selected.
Depress the [↓] key.		The cursor is moved on to "2 PLU".
Depress the [2] or [Enter] key.		"2 PLU" is selected.
Depress the [↓] key four times.		The cursor is moved on to "5 DELETE (ALL)".
Depress the [5] or [Enter] key.		"5 DELETE (ALL)" is selected.
Depress the [ALL VOID] key.		The entire programmed PLU data is deleted, then the following message is displayed. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> ALL PLU HAVE BEEN DELETED. PRESS [END] TO EXIT. </div>
The [End] key depression allows the ECR to end this operation.		A long receipt is issued and the display returns to Main Menu screen.

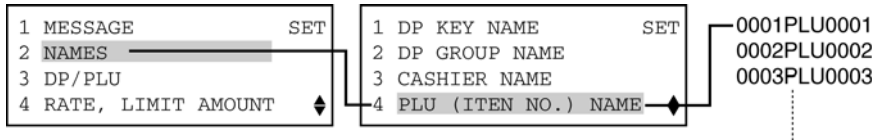
4.13 PLU Name Programming

A maximum of 16 characters of name of PLU which was programmed in the PLU Table Programming operation is set here.

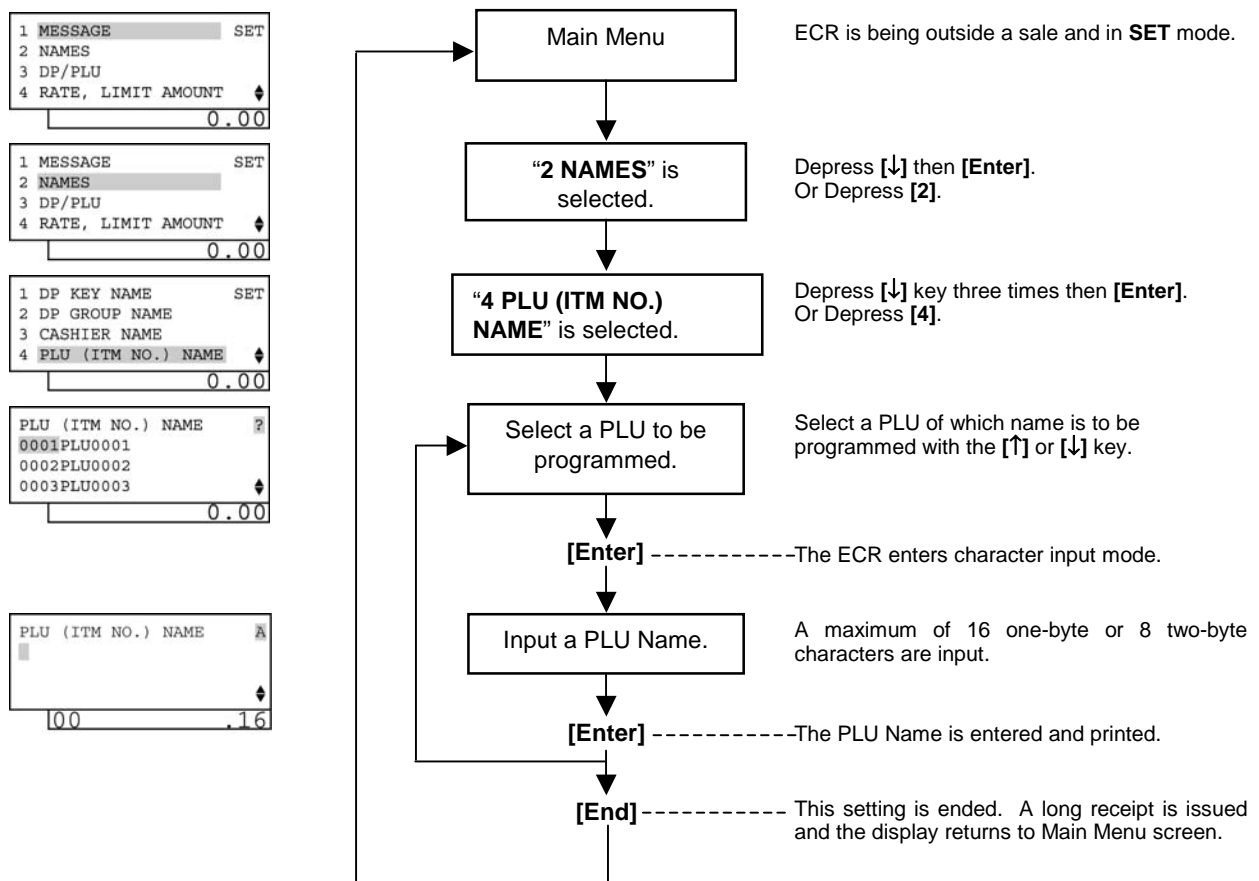
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



NOTE: A maximum of 16 one-byte characters or 8 two-byte characters can be entered. A combination of both types is also available.

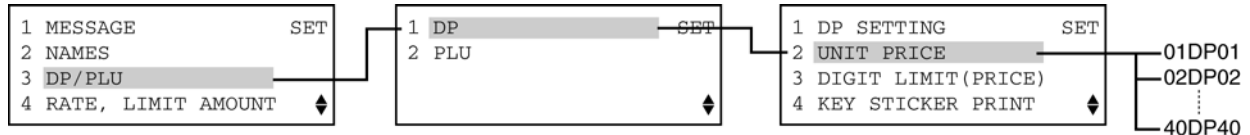
4.14 Department Preset Price Setting or Changing

The preset price of each department may be set in the DEPARTMENT TABLE PROGRAMMING already described. However, in setting or changing the price only but not other programmed data, the following operation will be more convenient.

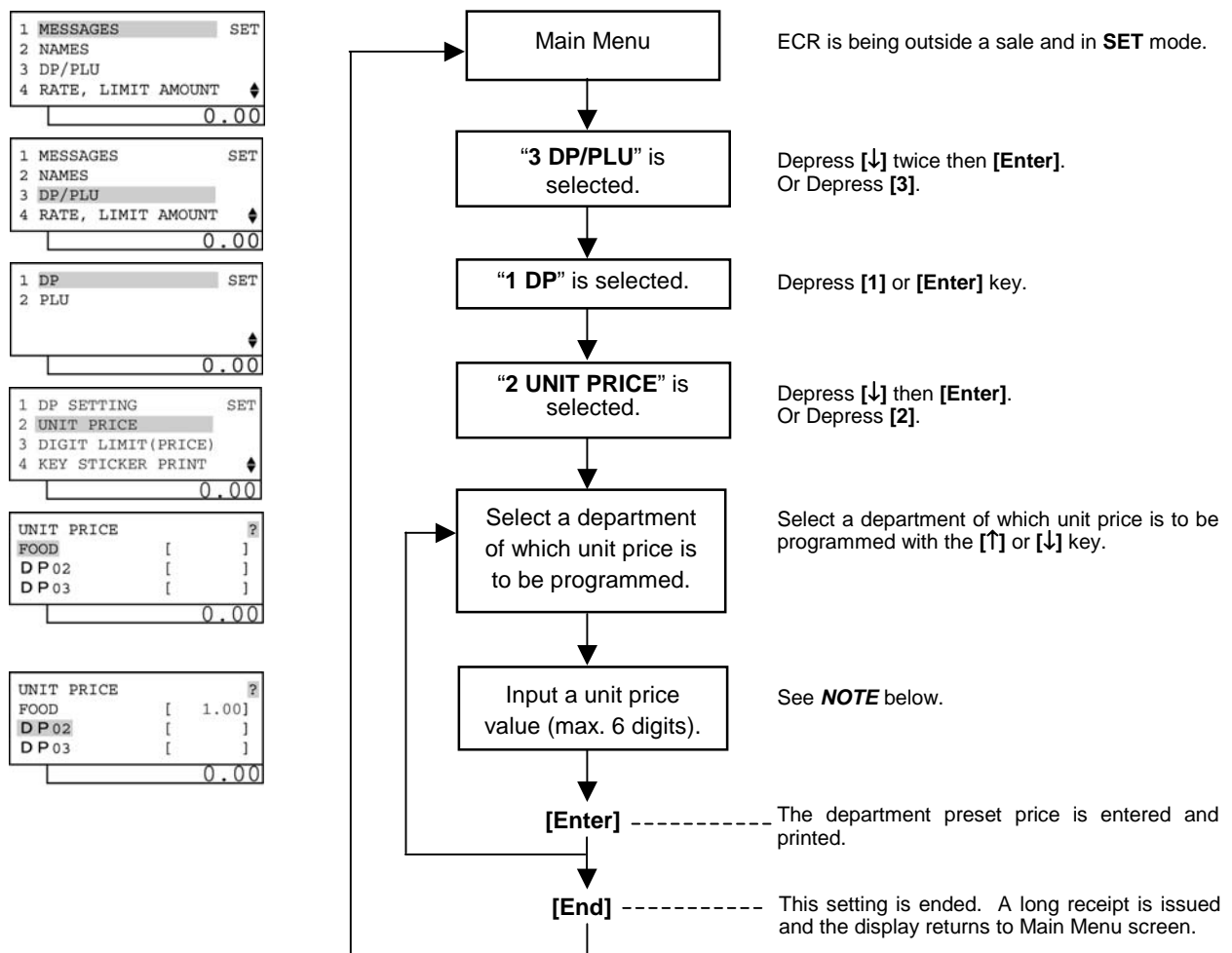
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



NOTE: When inputting 0 then depressing the [Enter] key, a zero price will be set to the department. If none of unit price value is input then the [Enter] key is depressed, the department will be open (i.e. open-price department).

4.15 PLU Preset Price Setting or Changing

The preset price of each PLU may be set in the PLU TABLE PROGRAMMING already described. However, the following operation will be more convenient in setting or changing the price only (not other programmed data).

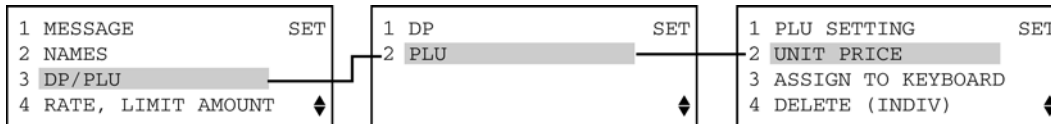
CONDITION

Any time outside a sale

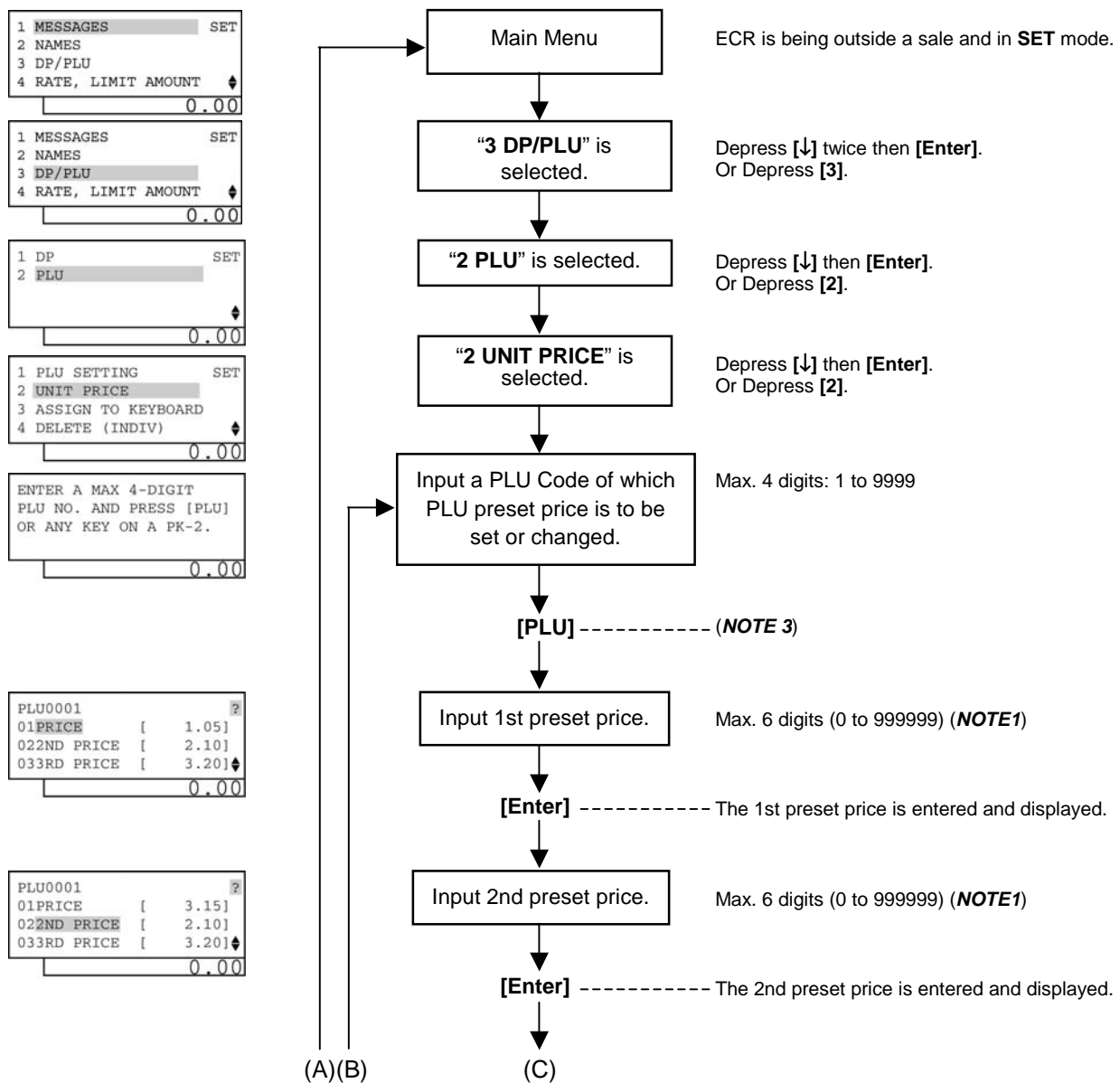
OPERATION

Mode Lock: **SET**

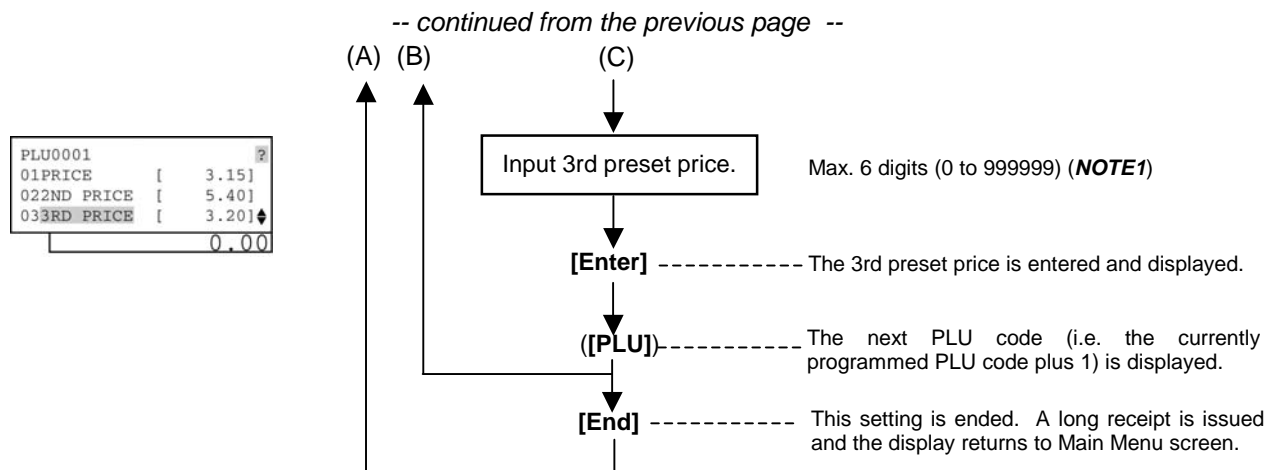
1) Menu Tree



2) Operation Flowchart



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**NOTES:**

1. When no price is input then the **[Enter]** key is depressed, the PLU will be open (i.e. open-price PLU).
2. If inputting a nonexistent PLU code that was not programmed in the PLU Table Programming, this may cause an error.
3. The **[PLU]** key depression here results in that the next PLU code (i.e. the currently programmed PLU code plus 1) is displayed. If it does not exist, the guidance message requiring a PLU code input is displayed.

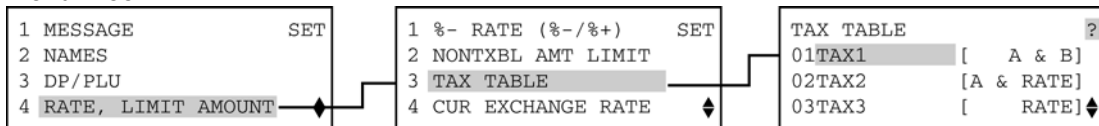
4.16 Tax Table Programming

A maximum of four tax tables can be programmed (Tax 1, Tax 2, Tax 3, Tax 4) among three types.

CONDITION After Financial Daily Reset

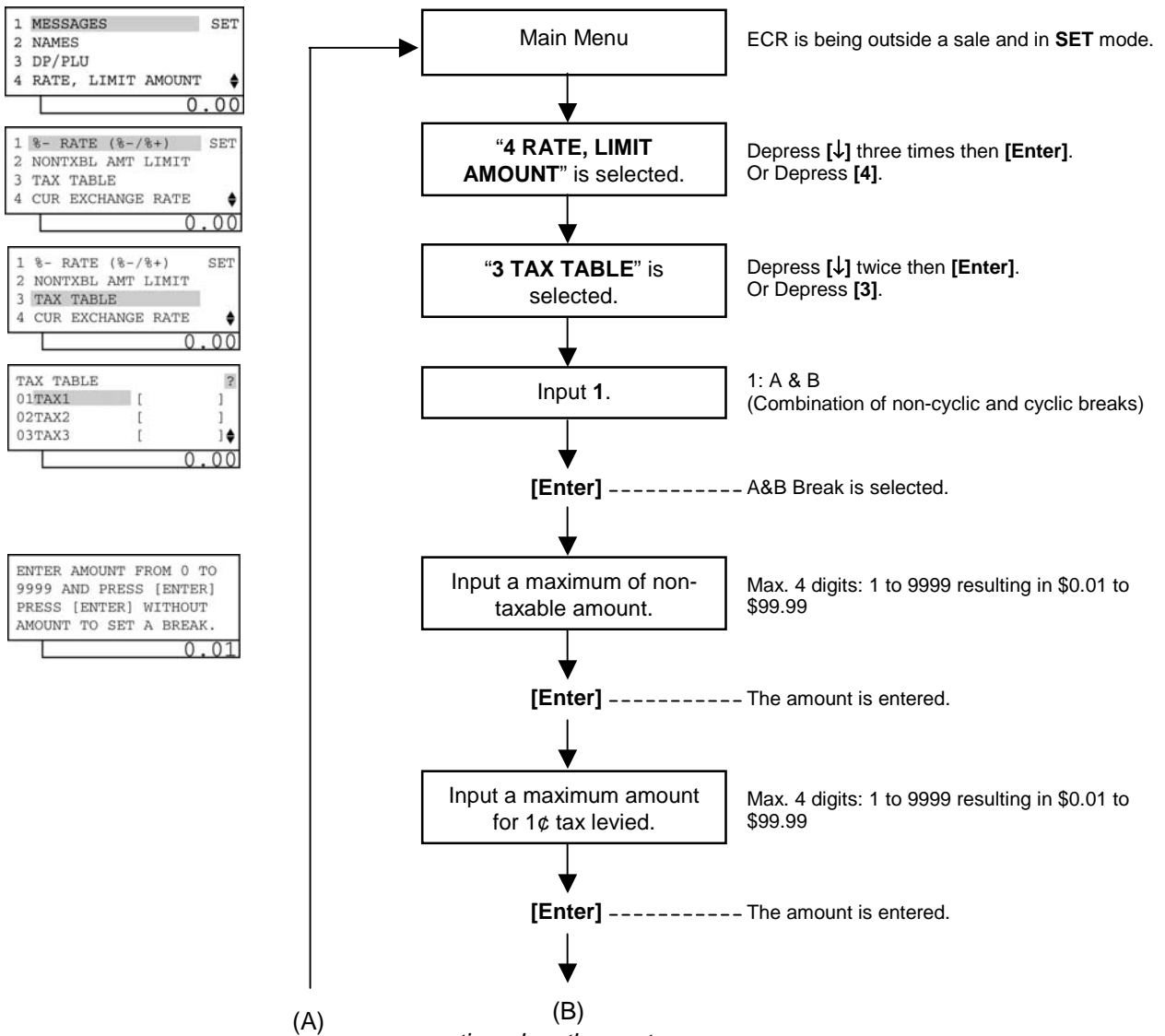
OPERATION Mode Lock: **SET**

1) Menu Tree

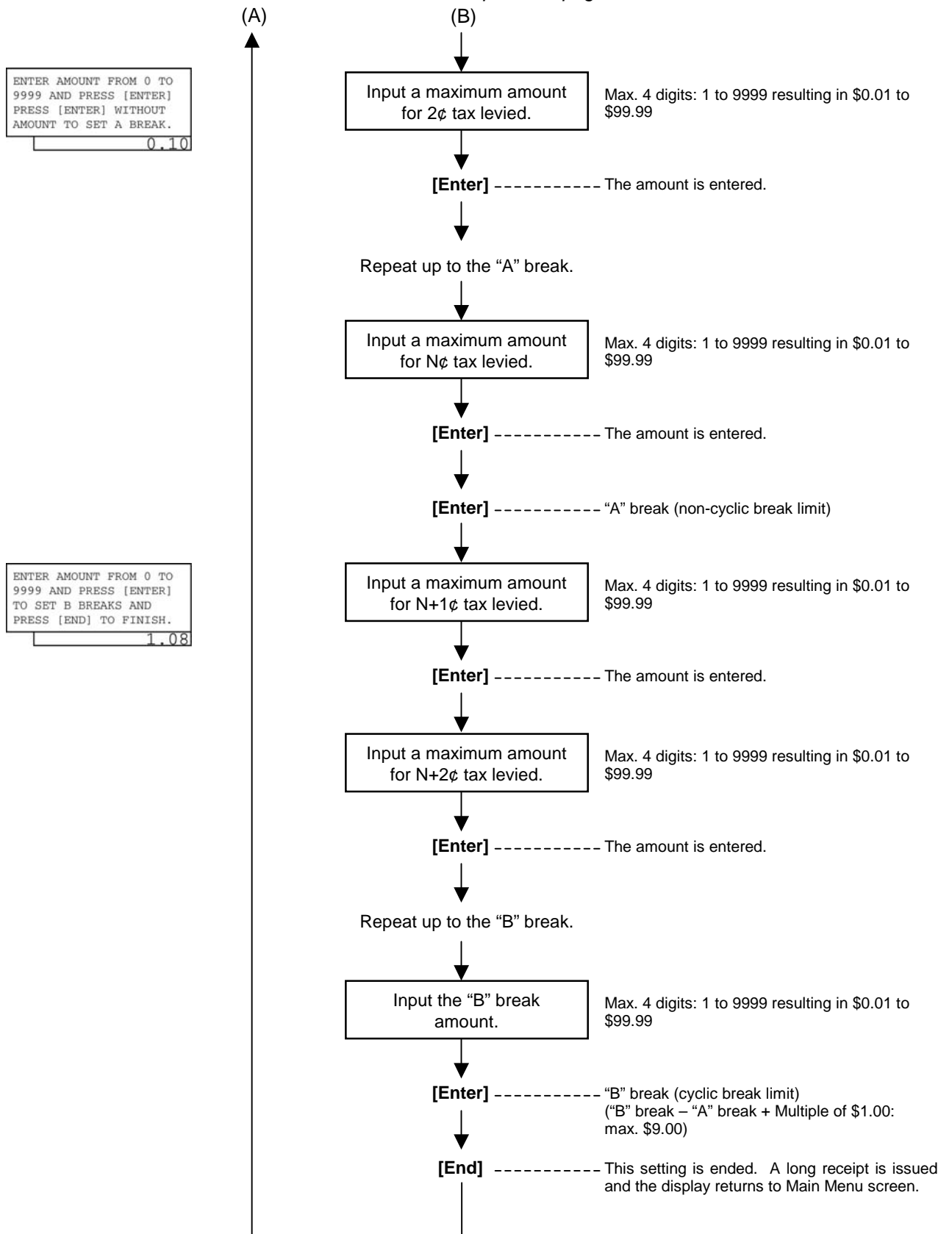


Type 1: Full Breaks (Combination of Non-Cyclic and Cyclic Breaks)

2) Operation Flowchart



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3) Example

Tax1 table below is set.

Amount Range	Tax Levied	Amount Range	Tax Levied
\$0.00 to \$0.10	0¢	\$1.09 to \$1.24	7¢
\$0.11 to \$0.22	1¢	\$1.25 to \$1.41	8¢
\$0.23 to \$0.39	2¢	\$1.42 to \$1.58	9¢
\$0.40 to \$0.56	3¢	\$1.59 to \$1.74	10¢
\$0.57 to \$0.73	4¢	\$1.75 to \$1.92	11¢
\$0.74 to \$0.90	5¢	\$1.93 to \$2.08	12¢
\$0.91 to \$1.08	6¢	----	----
----	---- "A" Break	----	---- "B" Break

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key three times.	<pre> 1 MESSAGES SET 2 NAMES 3 DP/PLU 4 RATE, LIMIT AMOUNT 0.00 </pre>	The cursor is moved on to "4 RATE, LIMIT AMOUNT".
Depress the [4] or [Enter] key.	<pre> 1 MESSAGE SET 2 NAMES 3 DP/PLU 4 RATE, LIMIT AMOUNT 0.00 </pre>	"4 RATE, LIMIT AMOUNT" is selected.
Depress the [↓] key twice.	<pre> 1 %- RATE (%-/%+) SET 2 NONTXBL AMT LIMIT 3 TAX TABLE 4 CUR EXCHANGE RATE 0.00 </pre>	The cursor is moved on to "3 TAX TABLE".
Depress the [3] or [Enter] key.	<pre> 1 %- RATE (%-/%+) SET 2 NONTXBL AMT LIMIT 3 TAX TABLE 4 CUR EXCHANGE RATE 0.00 </pre>	"3 TAX TABLE" is selected.
Make sure the cursor is shown on 01TAX1.	<pre> TAX TABLE ? 01TAX1 [] 02TAX2 [] 03TAX3 [] 0.00 </pre>	<p>Tax type which has already been programmed is displayed.</p> <ul style="list-style-type: none"> •A & B: Combination of non-cyclic and cyclic breaks •A & RATE: Combination of non-cyclic breaks and % rate •RATE: % rate only <p>While [?] is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that the following guidance message appears on the LCD display.</p> <pre> ENTER 1 FOR A&B BREAK ENTER 2 FOR A & % RATE ENTER 3 FOR % RATE AND PRESS [ENTER]. 0.00 </pre>

(continued on the next page)

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Operation	LCD Display	Remarks
Input 1 , then depress the [Enter] key.	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.00</u>	Tax type A & B (Combination of non-cyclic and cyclic breaks) is selected.
Input 10 , then depress the [Enter] key. (\$0.00 to \$0.10: 0¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.01</u>	A maximum of non-taxable amount is set.
Input 22 , then depress the [Enter] key. (\$0.11 to \$0.22: 1¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.10</u>	A maximum amount for 1¢ tax levied is set.
Input 39 , then depress the [Enter] key. (\$0.23 to \$0.39: 2¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.22</u>	A maximum amount for 2¢ tax levied is set.
Input 56 , then depress the [Enter] key. (\$0.40 to \$0.56: 3¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.39</u>	A maximum amount for 3¢ tax levied is set.
Input 73 , then depress the [Enter] key. (\$0.57 to \$0.73: 4¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.56</u>	A maximum amount for 4¢ tax levied is set.
Input 90 , then depress the [Enter] key. (\$0.74 to \$0.90: 5¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.73</u>	A maximum amount for 5¢ tax levied is set.
Input 108 , then depress the [Enter] key. (\$0.91 to \$1.08: 6¢ tax levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>0.90</u>	A maximum amount for 6¢ tax levied is set.
Depress the [Enter] key.	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <u>1.08</u>	"A" break (non-cyclic break limit) is set. It is ready to set cyclic breaks.

(continued on the next page)

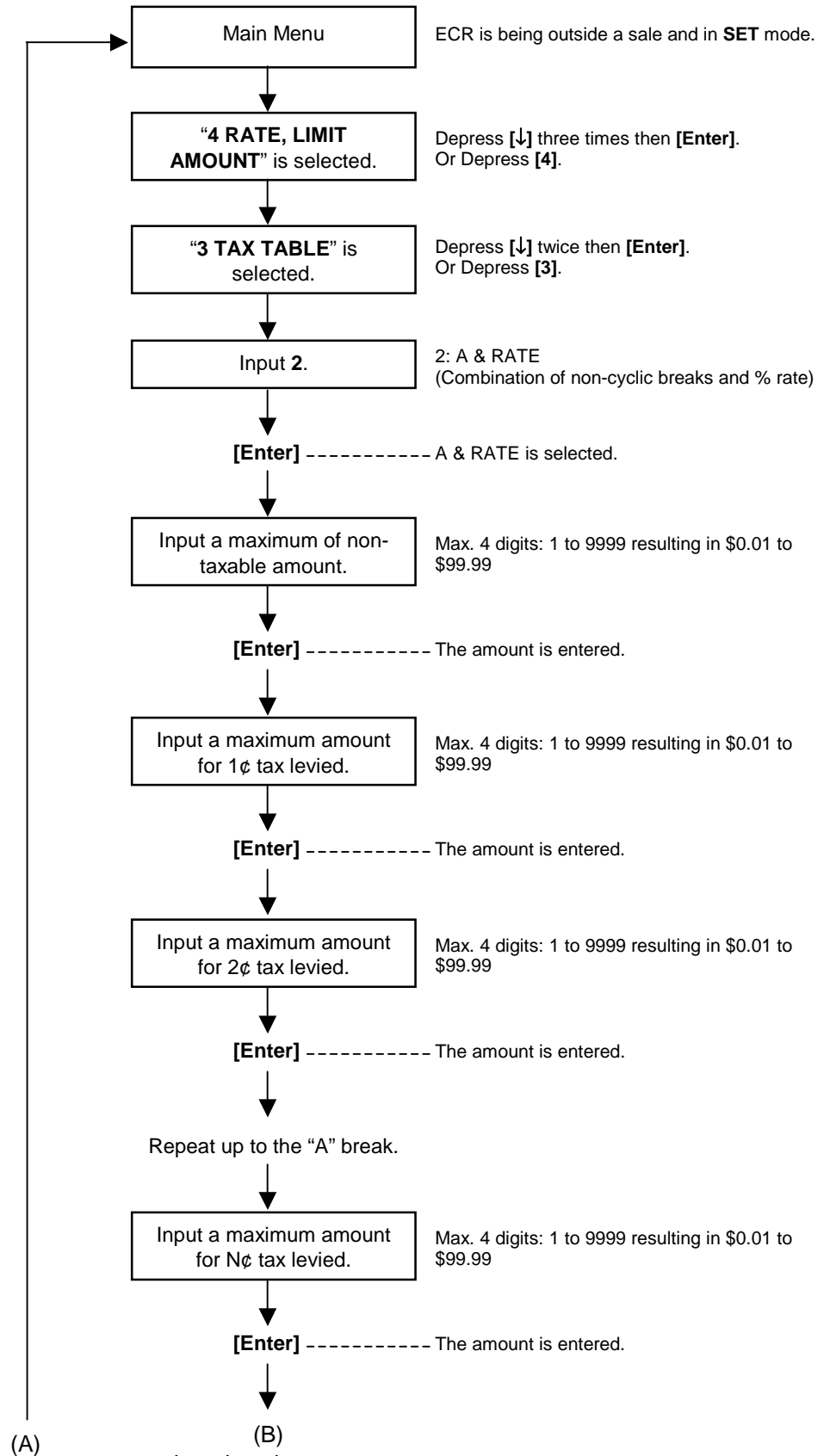
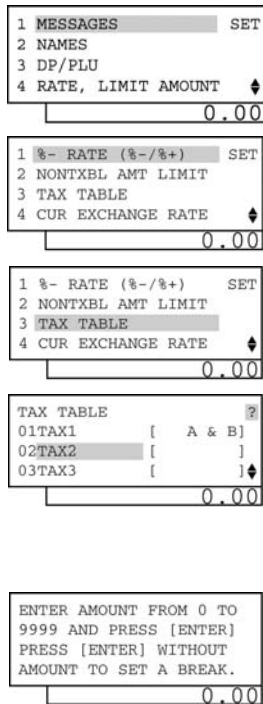
(continued from the previous page)

Operation	LCD Display	Remarks
Input 124 , then depress the [Enter] key. (\$1.09 to \$1.24: 7¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.08</u>	A maximum amount for 7¢ tax levied is set.
Input 141 , then depress the [Enter] key. (\$1.25 to \$1.41: 8¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.24</u>	A maximum amount for 8¢ tax levied is set.
Input 158 , then depress the [Enter] key. (\$1.42 to \$1.58: 9¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.41</u>	A maximum amount for 9¢ tax levied is set.
Input 174 , then depress the [Enter] key. (\$1.59 to \$1.74: 10¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.58</u>	A maximum amount for 10¢ tax levied is set.
Input 192 , then depress the [Enter] key. (\$1.75 to \$1.92: 11¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.74</u>	A maximum amount for 11¢ tax levied is set.
Input 208 , then depress the [Enter] key. (\$1.93 to \$2.08: 12¢ levied)	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>1.92</u>	A maximum amount for 12¢ tax levied is set.
The [End] key depression allows the ECR to set "B" break and end this operation.	ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] TO SET B BREAKS AND PRESS [END] TO FINISH. <u>2.08</u>	"B" break (cyclic break limit) is set. A long receipt is issued and the display returns to Main Menu screen.

10-20-2006 FRI #0		
TAX TABLE		
TAX1		
00		\$0.10
01		\$0.22
02		\$0.39
03		\$0.56
04		\$0.73
05		\$0.90
06		\$1.08
*		
07		\$1.24
08		\$1.41
09		\$1.58
10		\$1.74
11		\$1.92
12		\$2.08
**		
0021 13:47TM		

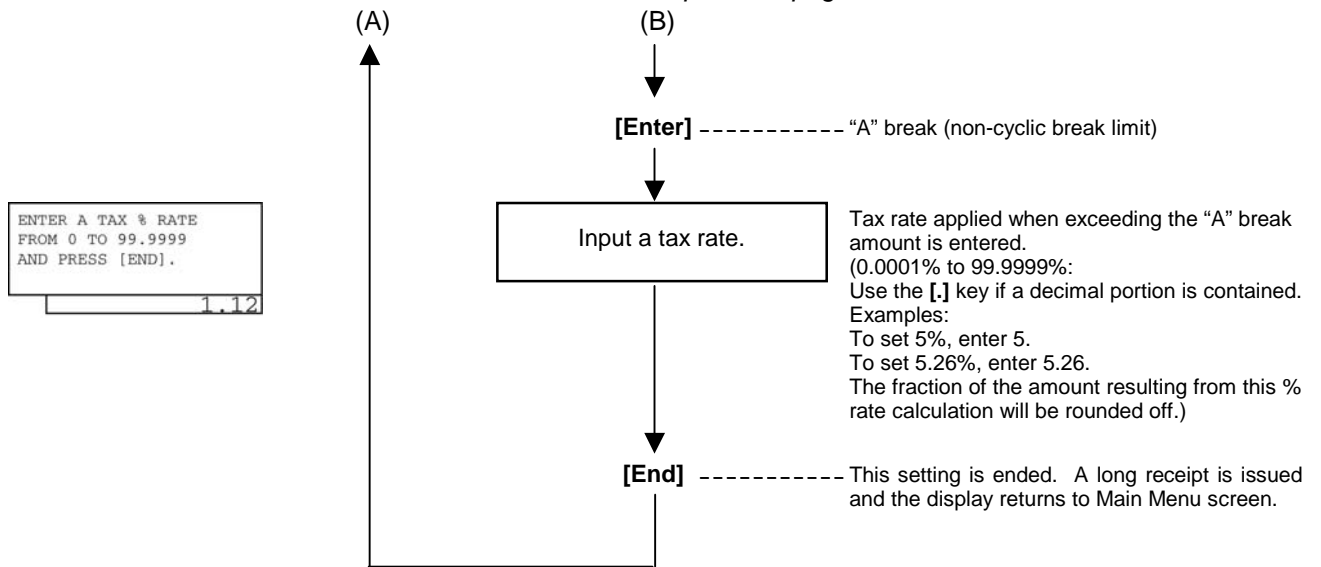
Type 2: Combination of Non-Cyclic Breaks and % Rate

2) Operation Flowchart



-- continued on the next page --

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3) Example

Tax2 table below is set.

Amount Range	Tax Levied
\$0.00 to \$0.09	0¢
\$0.10 to \$0.29	1¢
\$0.30 to \$0.59	2¢
\$0.60 to \$0.84	3¢
\$0.85 to \$1.12	4¢

---- "A" Break

5% is applied to any amount exceeding the "A" break.

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key three times. Depress the [4] or [Enter] key. Depress the [↓] key twice. Depress the [3] or [Enter] key.		The cursor is moved on to "4 RATE, LIMIT AMOUNT". "4 RATE, LIMIT AMOUNT" is selected. The cursor is moved on to "3 TAX TABLE". "3 TAX TABLE" is selected.
Depress the [↓] key.		Tax type which has already been programmed is displayed.
Make sure the cursor is shown on 02TAX2.		Tax2 is selected.

(continued on the next page)

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Operation	LCD Display	Remarks
Input 2 , then depress the [Enter] key.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.00 </div>	Tax type A & RATE (Combination of non-cyclic breaks and % rate) is selected.
Input 9 , then depress the [Enter] key. (\$0.00 to \$0.09: 0¢ levied)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.02 </div>	A maximum of non-taxable amount is set.
Input 29 , then depress the [Enter] key. (\$0.10 to \$0.29: 1¢ tax levied)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.09 </div>	A maximum amount for 1¢ tax levied is set.
Input 59 , then depress the [Enter] key. (\$0.30 to \$0.59: 2¢ tax levied)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.29 </div>	A maximum amount for 2¢ tax levied is set.
Input 84 , then depress the [Enter] key. (\$0.60 to \$0.84: 3¢ tax levied)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.59 </div>	A maximum amount for 3¢ tax levied is set.
Input 112 , then depress the [Enter] key. (\$0.85 to \$1.12: 4¢ tax levied)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 0.84 </div>	A maximum amount for 4¢ tax levied is set.
Depress the [Enter] key.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER AMOUNT FROM 0 TO 9999 AND PRESS [ENTER] PRESS [ENTER] WITHOUT AMOUNT TO SET A BREAK. <hr style="width: 100%;"/> 1.12 </div>	"A" break (non-cyclic break limit) is set. It is ready to set % rate.
Input 5 . The [End] key depression allows the ECR to end this operation.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENTER A TAX % RATE FROM 0 TO 99.9999 AND PRESS [END]. <hr style="width: 100%;"/> 1.12 </div>	Tax % rate (5%) is set. A long receipt is issued and the display returns to Main Menu screen.

10-20-2006 FRI #0

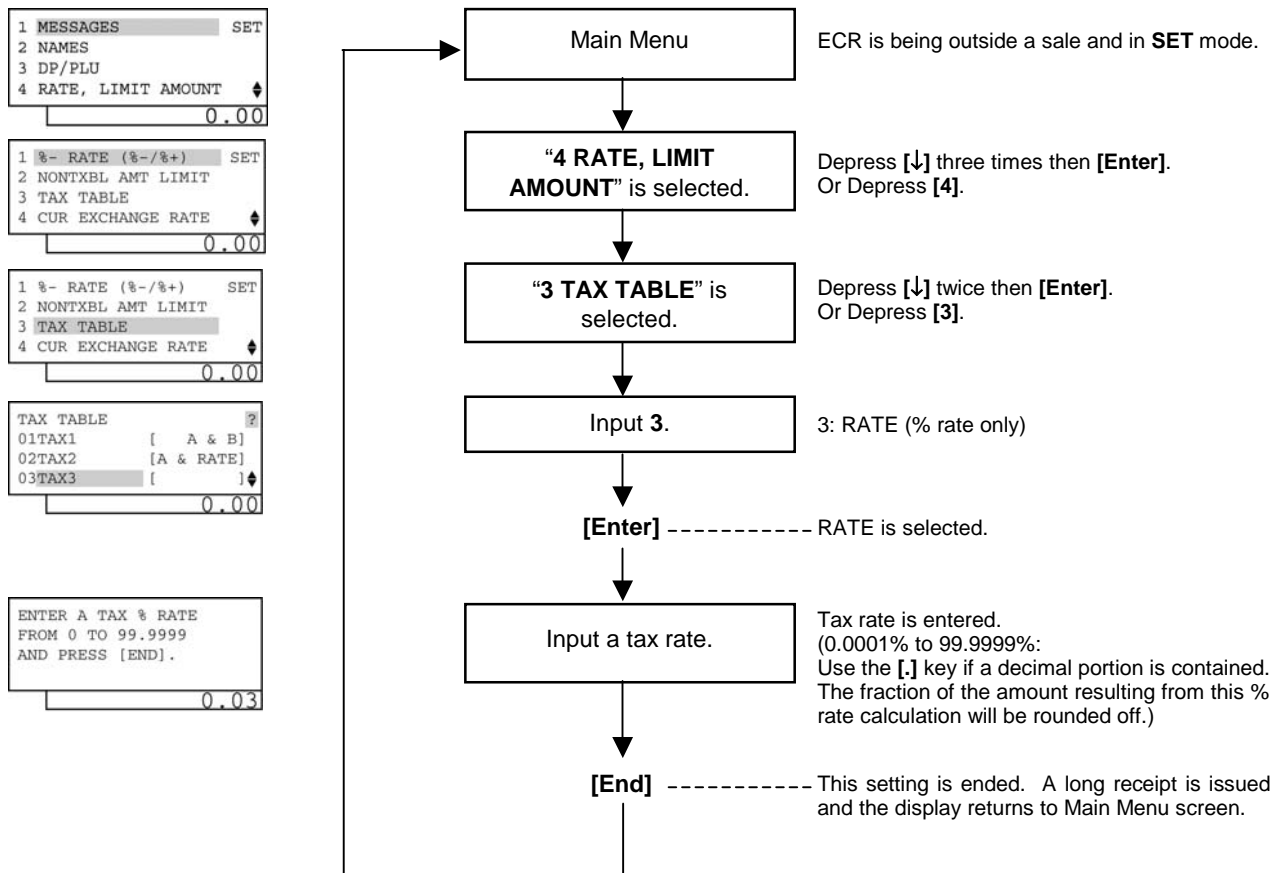
TAX TABLE

TAX2	
00	\$0.09
01	\$0.29
02	\$0.59
03	\$0.84
04	\$1.12
*	5%

0022 13: 49TM

Type 3: % Rate only

2) Operation Flowchart



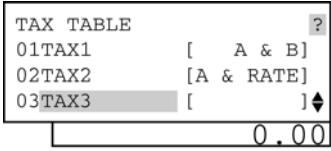
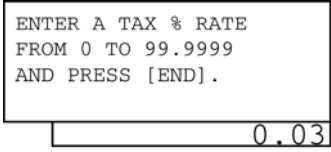
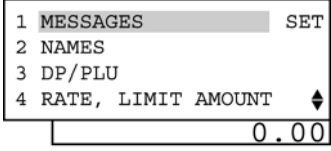
3) Example

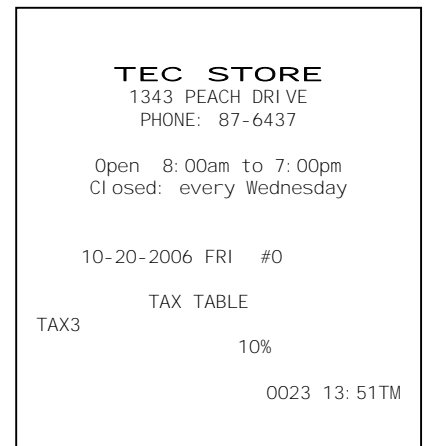
Tax3 table below is set.
10% is applied to any sale amount.

Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key three times. Depress the [4] or [Enter] key. Depress the [↓] key twice. Depress the [3] or [Enter] key.		The cursor is moved on to " 4 RATE, LIMIT AMOUNT ". " 4 RATE, LIMIT AMOUNT " is selected. The cursor is moved on to " 3 TAX TABLE ". " 3 TAX TABLE " is selected.
Depress the [↓] key twice.		Tax type which has already been programmed is displayed.

(continued on the next page)

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Operation	LCD Display	Remarks
Make sure the cursor is shown on 03TAX3. Input 3 , then depress the [Enter] key.	 <p>TAX TABLE [? 01TAX1 [A & B] 02TAX2 [A & RATE] 03TAX3 [] 0.00</p>	Tax3 is selected. Tax type RATE (% rate only) is selected.
Input 10 .	 <p>ENTER A TAX % RATE FROM 0 TO 99.9999 AND PRESS [END]. 0.03</p>	Tax % rate (10%) is entered.
The [End] key depression allows the ECR to end this operation.	 <p>1 MESSAGES SET 2 NAMES 3 DP/PLU 4 RATE, LIMIT AMOUNT 0.00</p>	A long receipt is issued and the display returns to Main Menu screen.



NOTES:

1. The break amount entry must be a maximum of 4 digits (1 to 9999 resulting in \$0.01 to \$99.99).
2. If multiple tax tables are programmed, the Tax1 table must be set first, then Tax2, Tax3, and Tax4. The Tax1 table setting will automatically reset all of the old Tax1, Tax2, Tax3 and Tax4 tables if they have been programmed.
3. A maximum of 99 breaks can be entered for Tax1 to Tax4 tables altogether.
4. For inclusive tax, tax table programming using a rate only is available. Tax table programming using a tax break is unavailable.

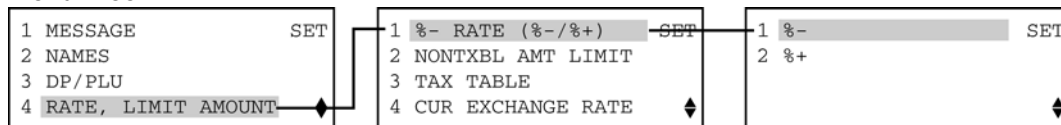
4.17 %+ and %- Preset Rate Setting

A preset rate may be set on each of the [%+] and [%-] keys, one independent rate for each key. Once a rate is preset, the % key will simply be depressed without a prior rate entry to activate the preset rate. If a rate is entered prior to the depression of the key, the entered rate (manual rate) will be activated instead.

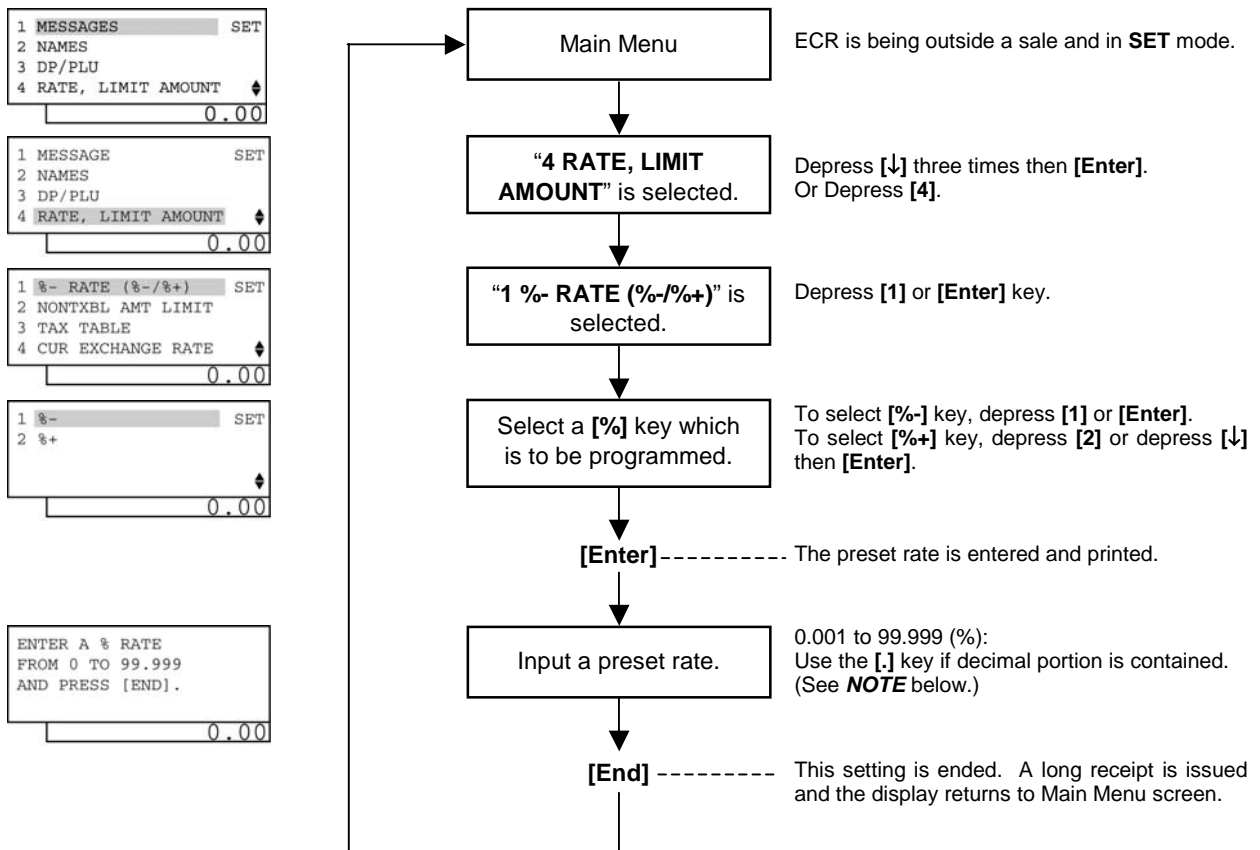
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

1) Menu Tree



2) Operation Flowchart



NOTE: When inputting 0, the % preset rate will be canceled. If doing so, the % preset rate should be set in the registration operation.

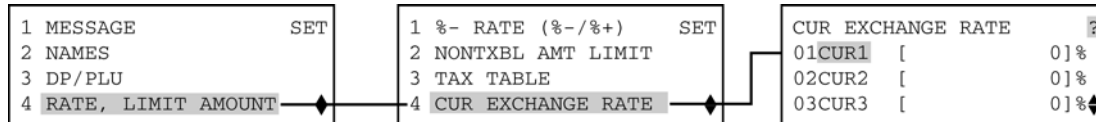
4.18 Foreign Currency Exchange Rate Setting

The rate of each foreign currency (corresponding to the [CUR1] to [CUR5] keys) are set in this operation. By setting a rate on each Foreign Currency Key, reading the sale total and tendering in the foreign currency value will be possible for sale finalization.

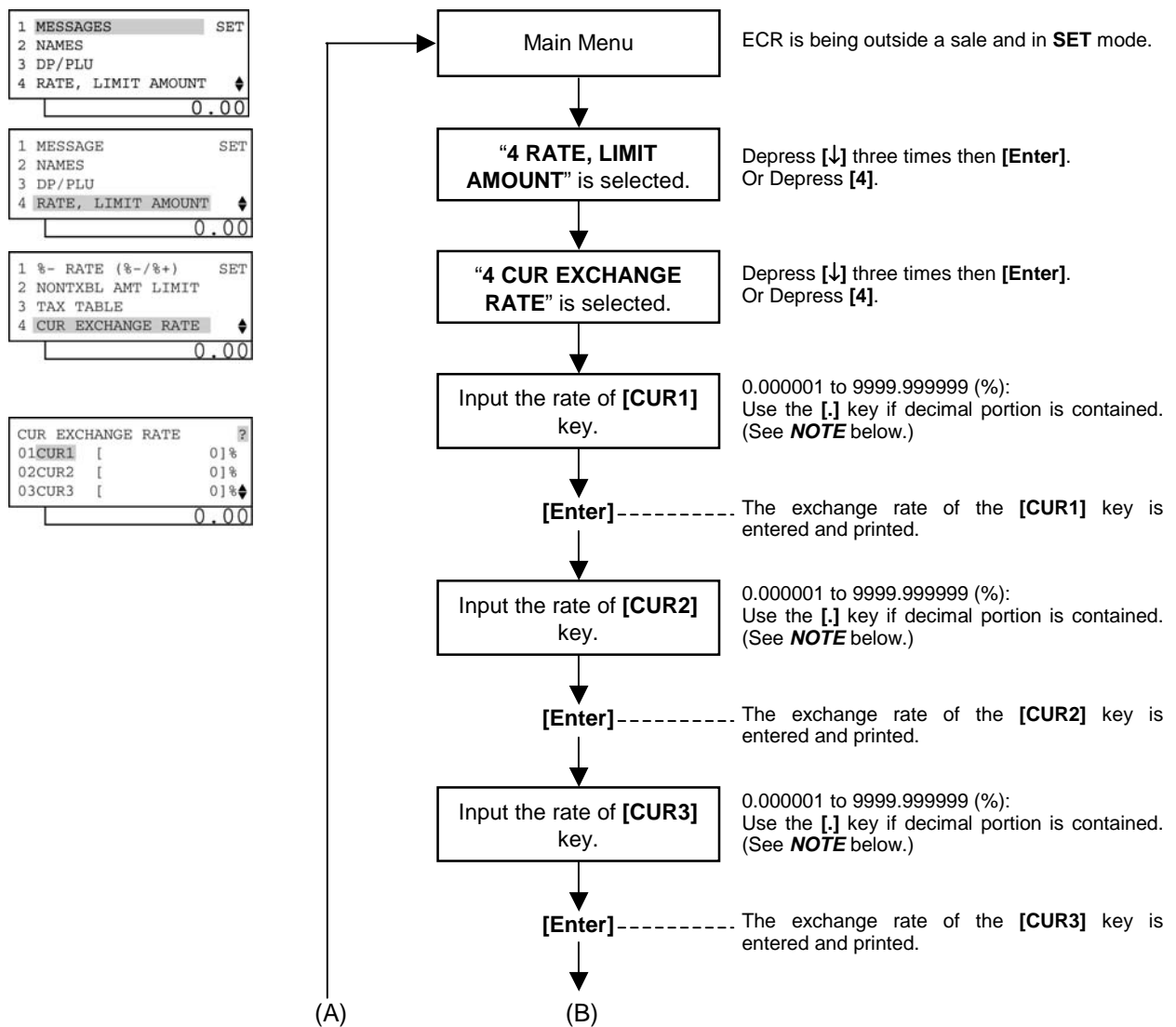
CONDITION Any time outside a sale

OPERATION Mode Lock: **SET**

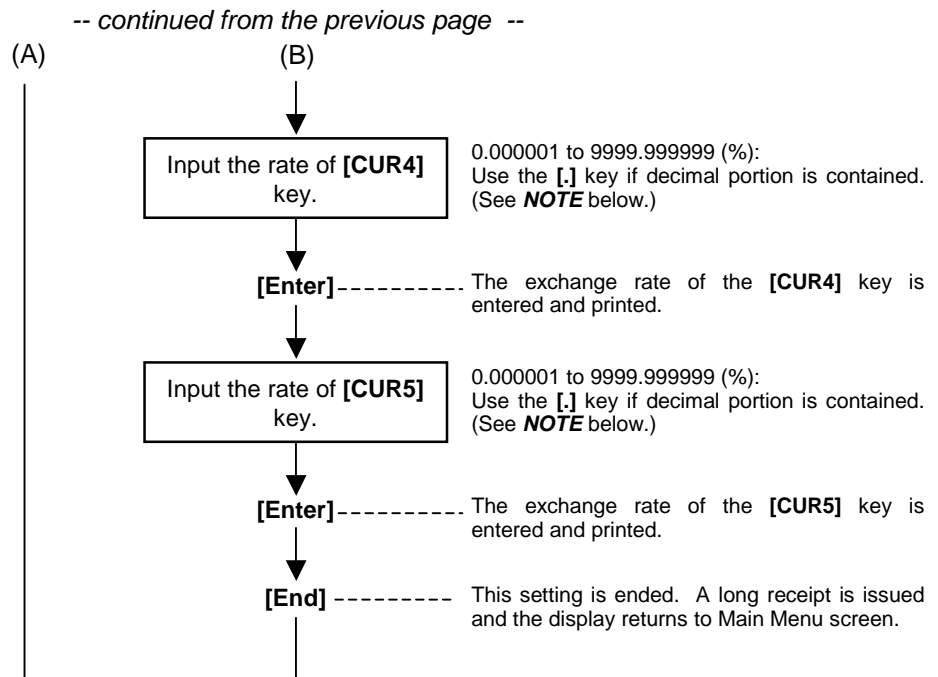
1) Menu Tree



2) Operation Flowchart



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NOTE: When inputting 0, the rate of the foreign currency will be canceled. If doing so, the rate of the foreign currency should be set in the registration operation.

Foreign Currency Exchange Rate Calculation

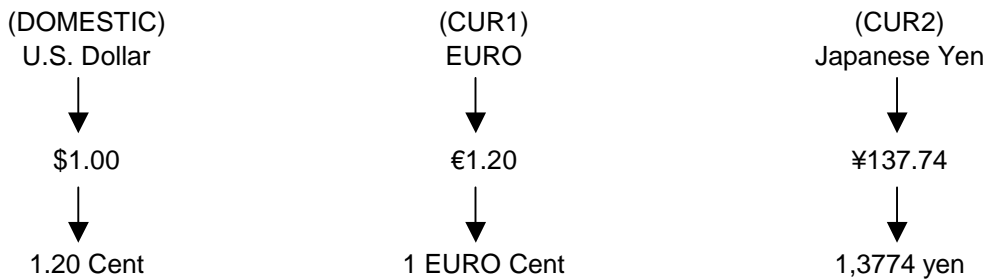
1. The rate must be calculated in the subsidiary currency unit values for both the domestic and the foreign currencies. (In case of calculating the rate from the domestic to a foreign currency with the same zero-suppress form, such as from U.S. \$ to Euro, it will be no problem even if it is calculated in the main currency of \$ and Euro. However, in case of exchanging from a domestic currency such as \$ or Euro to Japanese yen, or vice versa, this rule must be obeyed; otherwise a wrong rate will result.)
2. Calculate the required foreign currency value equivalent to the domestic currency value "1". Then the obtained value is the Exchange Rate value to be entered in the setting operation stated on the previous page.

3) Example

To set two foreign currency rates:

(The rates here are merely examples, and may be different from the actual rates currently in effect.)

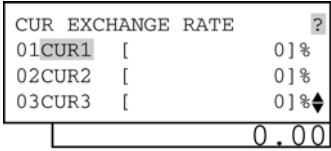
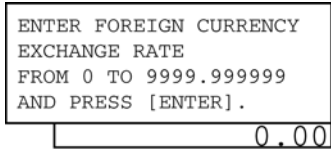
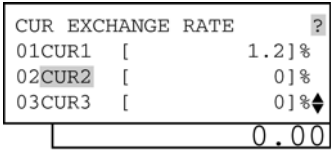
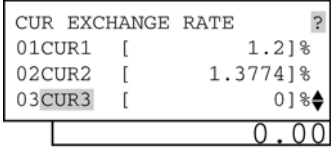
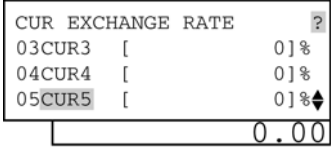
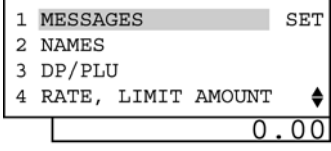
Conditions given for Domestic Currency and Foreign Currencies



Operation	LCD Display	Remarks
When the ECR is being outside a sale and in SET mode, depress the [↓] key three times.		The cursor is moved on to "4 RATE, LIMIT AMOUNT".
Depress the [4] or [Enter] key.		"4 RATE, LIMIT AMOUNT" is selected.
Depress the [↓] key three times.		The cursor is moved on to "4 CUR EXCHANGE RATE".
Depress the [4] or [Enter] key.		"4 CUR EXCHANGE RATE" is selected.

(continued on the next page)

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Operation	LCD Display	Remarks
<p>Make sure the cursor is shown on 01CUR1. Then, input 1.20 and depress the [Enter] key.</p>		<p>The exchange rate from \$ to € is set on the [CUR1] key.</p> <p>While ? is shown on the upper-right corner of the LCD display screen, the [?] key depression results in that the following guidance message appears on the LCD display.</p> 
<p>Make sure the cursor is shown on 02CUR2. Then, input 1.3774 and depress the [Enter] key.</p>		<p>The exchange rate from \$ to Japan Yen is set on the [CUR2] key.</p>
<p>Depress the [↓] key twice.</p>		<p>The cursor is moved on to "05CUR5".</p>
<p>Make sure the cursor is shown on 05CUR5.</p>		
<p>The [End] key depression allows the ECR to end this setting.</p>		<p>A long receipt is issued and the display returns to Main Menu screen.</p>

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 Closed: every Wednesday

10-20-2006 FRI #0

CUR RATE

CUR1	1.2*
CUR2	1.3774*

0024 13: 53TM

Resetting a Foreign Currency Rate Once Set

Input **0** in place of the Exchange Rate for the Foreign Currency in the setting operation. Then the rate for that foreign currency will be reset. The rate of the Foreign Currency Key thus reset cannot be used in sales entries.

5. VERIFICATION OF PROGRAMMED DATA

The programmed data entered in the preceding chapter can be read for verification purposes.

The print format of each program reading is almost the same as on the program receipt, except that "X" is printed instead of printing Program Name.

CONDITION Any time outside a sale

OPERATION Mode Lock: **X** or **SET**

1. Turn the Mode Lock to the **X** or **SET** position with the **MGR** key.
2. In **X** mode, move the cursor on to **3 PROGRAM DATA READ** which is displayed on the LCD display with the [↓] key, then depress the [Enter] key. In **SET** mode, move the cursor on to **7 PROGRAM DATA READ**, then depress the [Enter] key.
3. PROGRAM DATA READ menu is shown on the next page. Move the cursor on to a desired item to be verified with the [↓] key, then depress the [Enter] key.
4. The currently programmed data is printed both on the receipt and on the journal.

NOTE: On depressing the [Enter] key, the programmed data will be printed. To abort printing once started, depress the [ITEM CORR] key. The reading operation is immediately stopped halfway.

Example)

To verify the preset rates of the [%-] and [%+] keys in **X** mode.

1. When the ECR is being outside a sale and in **X** mode, depress the [↓] key twice to move the cursor on **3 PROGRAM DATA READ**.
2. Depress the [3] or [Enter] key.
3. Depress the [↓] key three times to move the cursor on **4 RATE, LIMIT AMOUNT**.
4. Depress the [4] or [Enter] key.
5. The [1] or [Enter] key depression results in printing.

```

1 DAILY X
2 GT
3 PROGRAM DATA READ
4 OTHER ITEMS
0.00
  
```

```

1 DAILY X
2 GT
3 PROGRAM DATA READ
4 OTHER ITEMS
0.00
  
```

```

1 MESSAGES X
2 NAMES
3 DP/PLU
4 RATE, LIMIT AMOUNT
0.00
  
```

```

1 MESSAGES X
2 NAMES
3 DP/PLU
4 RATE, LIMIT AMOUNT
0.00
  
```

```

1 %- RATE (%-/%+) X
2 NONTXBL AMT LIMIT
3 TAX TABLE
4 CUR EXCHANGE RATE
0.00
  
```

```

10-20-2006 FRI #0
X RATE
%- 5%
%+ 3%
0090 16:54TM
  
```

PROGRAM DATA READ menu

X mode

- 1 DAILY X
 - 2 GT
 - 3 PROGRAM DATA READ
 - 4 OTHER ITEMS
- 0

SET mode

- 4 RATE, LIMIT AMOUNT SET
 - 5 BASIC
 - 6 OTHER
 - 7 PROGRAM DATA READ
- 0

- 1 MESSAGES
 - 1 COMMERCIAL MESSAGE
 - 2 FOOTER MESSAGE
 - 3 STORE MESSAGE
- 2 NAMES
 - 1 DP GROUP NAME
 - 2 CASHIER NAME
 - 3 FINANCIAL ITM NAME
 - 4 PRINT ITEM NAME
 - 5 DISPLAY ITEM NAME
 - 6 ERROR ITEM NAME
 - 7 X/Z REPORT NAME
 - 8 DISP MENU
 - 9 MESSAGES
- 3 DP/PLU
 - 1 DP SETTING
 - 1 DP SETTING
 - 2 DIGIT LIMIT(PRICE)
 - 2 PLU SETTING
 - 1 ALL PLU
 - 2 ZONE PLU
 - 3 PLU PRICE SETTING
 - 1 ALL PLU
 - 2 ZONE PLU
 - 4 ASSIGN TO KEYBOARD
- 4 RATE, LIMIT AMOUNT
 - 1 %- RATE(%-/%+)
 - 2 NONTXBL AMT LIMIT
 - 3 TAX TABLE
 - 4 CUR EXCHANGE RATE
- 5 BASIC
 - 1 HOURLY RANGE
 - 2 KEY-IN TONE
- 6 OTHER
 - 1 REPORT PRINT ITEM
 - 2 SYSTEM OPTION
 - 3 KEY FUNCTION
 - 4 CASH KEY AMOUNT
 - 5 DRW WARNING TIME
 - 6 RCT PRINT BUFFER
 - 7 EFT KEY FUNCTION
 - 8 EFT INFORMATION
 - 9 TAX CALC TEST
 - 0 CONNECT I/O



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