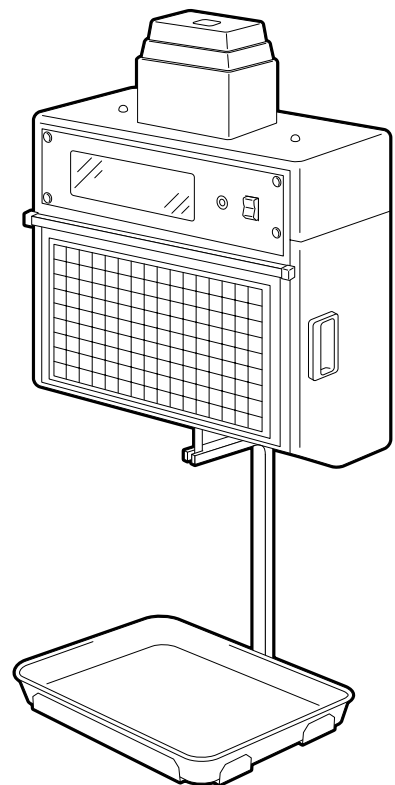**TEC**

TEC Electronic Computing Scale

# SL-9000/9000N-FFH-US/CA/QR

## Owner's Manual

**TOSHIBA TEC CORPORATION**

# TABLE OF CONTENTS

# 1. INTRODUCTION

Thank you for purchasing the TEC SL-9000 electronic computing scale. The TEC SL-9000 is designed to be hung from the ceiling. As you will discover, it has many features and functions designed for user friendliness as well as complete customer satisfaction.
The 256x64 dot fluorescent display provides customers with ample information, the 216 speed keys realize a higher degree of operability, and the 3 inch/sec. print speed ensures fast and clear printing.
Password security prevents unauthorized access to the PROG., M.DOWN, REWRAP, REPORT and RESET modes.
The latest high speed in-line system, Local Operation Network (LON), allows easy system configuration and greater throughput.
Various options, including a TMCC Interface, etc., are selectable in accordance with your needs.
We believe that your needs will now be fully satisfied, and you will have total reliability in price calculation. Should you have any questions concerning the scale, please refer to this manual. Be sure to keep this manual for future reference.

Some procedures described in this manual may be illegal in various state jurisdictions. When there are optional settings to enable various functions or to disable functions. Please ensure that the optional settings for scale operation meet the local requirements of weights and measures. If you are uncertain of specific items, contact the state or county office of weights and measures for clarification.
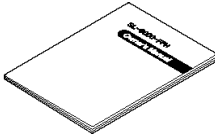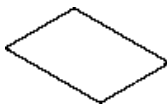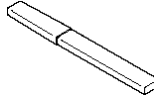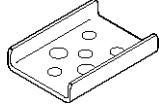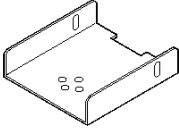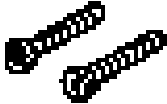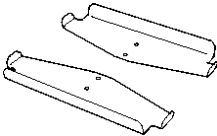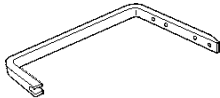
## 1.1 APPLICABLE MODEL

- SL-9000-15M-FFH-CA
- SL-9000-15M-FFH-QR

- SL-9000-30M-N-FFH-US
- SL-9000-15M-N-FFH-CA
- SL-9000-15M-N-FFH-QR

The description of the model number is as follows.

# SL-9000-30M-N-FFH-US

Destination Code
ex.) US, CA, QR, etc.

Max. Capacity
30M: 30 lbs (decimal pound
/multi-interval)
15M: 15 Kg (multi-interval)

Scale Type
H: Hanging scale

Display Type
FF: Fluorescent full dot display

N: LAN (Option) is available.
Blank: LAN (Option) is not available.

## 1.2 ACCESSORIES

| Owner's Manual (EM1-31076) | Quality control report (US type only) | Print Head Cleaner (24089500013) | Sealing Lead |

| Stranded Wire | Rubber Pipe Cover | Nut (N-6) | Pipe Spacer |

| Hanging Support (R) | Cap Screw (M-6x12) | Cap Screw (M-6x60) | Spring Washer (SW-6) |

| Platter Mount Plate | Platter Arm | Platter |

*NOTE : Check that there are no missing or incorrect parts in the accessories*

# 2. SPECIFICATION

## 2.1 SCALE

| Item | US | CA | QR |
|------|----|----|----|
| Maximum Capacity | 30 lb | 15 Kg (30 lb) | |
| Minimum Scale Division | 0.005 lb (0 to 15 lb.)<br><br>0.01 lb (15 to 30 lb.) | 0.002 Kg (0 to 6 Kg)<br>0.005 Kg (6 to 15 Kg)<br>0.005 lb (0 to 15 lb)<br>0.01 lb (15 to 30 lb) | |
| Display Range | 0 to 30.05 lb | 0 to 15.025 Kg (0 to 30.05 lb) | |
| Maximum Tare | 2.000 lb | 1.000 Kg (2.205 lb) | |
| Unit Price Presettable | $ 0.01 to 99.99 | $ 0.01 to 99.99 | 0 to 99999 |
| Minimum Price Display | $ 0.01 | $ 0.01 | 1 |
| Power Requirement | AC 120 V ±10%, 60 Hz (US/CA type)<br>AC 220 V ±10%, 50/60 Hz (QR type) | | |
| Power Consumption | US/CA:   85 W, 1.4 A (Standby: 30 W, 0.5 A)<br>QR:   80 W, 0.66 A (Standby: 32 W, 0.26 A) | | |
| Temperature Limits | 32°F to 104°F (0    to 40   ) | | |
| Relative Humidity | 35 % to 85 % (No condensation) | | |
| Message Display | 256 x 64 dots Fluorescent display | | |
|   Weight | 5 digits (US/CA type), 5 digits (QR type) | | |
|   Unit Price | 4 digits (US/CA type), 5 digits (QR type) | | |
|   Total Price | 5 digits (US/CA type), 6 digits (QR type) | | |
| Display Mode | Dual sides | | |
| Capacity of PLU Memory | SL-9000:   560 PLUs (Standard), 240 PLUs when LOGO is available.<br>                   3120 PLUs max. (Option)<br>SL-9000N: 3600 PLUs max. (Standard) | | |
| Print Head | Thermal Print Head (2 inch wide) | | |
| Media Issue Method | On-demand/Batch | | |
| Dot Density | 193 dots/inch (7.6 dots/mm) | | |
| Print Speed | 3 inch/sec. (76.2 mm/sec.) | | |
| Available Media Width | 1.89 inch (48 mm), 2.24 inch (57 mm) | | |
| Recommended Media | | | |
|   Thermal Label | VHTS, VLTS (OSP)/Outer diameter: φ150 mm (Max.) | | |
|   Variable Length Label | VHTS, VLTS (OSP)/Outer diameter: φ150 mm (Max.) | | |
|   Thermal Receipt | 120 FC (RICOH)/Outer diameter: φ90 mm (Max.) | | |
| Interface | CMT/PL-3 interface (Program Loader)<br>LON interface (RS-485)<br>TMCC interface (Option)<br>LAN Interface (10 Base T, SL-9000N Option) | | |
| Dimensions (approx.) | | | |
|   Without a platter | 15.6 inch (width) x 7.1 inch (depth) x 19.3 inch (height)<br>395 mm (width) x 181 mm (depth) x 490 mm (height) | | |
|   With a platter | 15.6 inch (width) x 10.8 inch (depth) x 32.7 inch (height)<br>395 mm (width) x 274 mm (depth) x 830 mm (height) | | |
| Weight | 37.5 lb (17 Kg) | | |

## 2.2 OPTION

| Option Name | | Model No. or Part No. | Description | Source |
|---|---|---|---|---|
| LON | LON Connector TM8P-88P | Part No. EAJ-0028001 | A modular connector used to connect scales to each other in a LON configuration. | See Note 2 |
| | LON Terminal Resistor 285D-8P | Part No. EAJ-0029001 | A modular resistor attached to the scales connected at both ends of the LON configuration. | See Note 2 |
| | LON Cable S-STLAN-2P (200 m/roll) | Part No. 10319100003 | An 8-pin telephone cable used with the LON connectors attached to both ends of the cable. This cable connects scales to each other in a LON configuration. | See Note 2 |
| TMCC | I/O PC Board | OP-9000-IOB | An I/O board equipped with the TMCC interface. It is used to construct a TMCC system. | See Note 1 |
| | TMCC Cable kit | OP-9000-IOCN-TMCC | A cable kit for the TMCC interface. | See Note 1 |
| MEMO PC Board (SL-9000 only) | | OP-9000-PIGGYBACK OP-9000-PIGGYBACK-S/F | This board is used to expand the PLU memory to 4MB by installing the memory module. | See Note 1 |
| Memory Module | | OP-9000-RAM-512KB | DIP type PS-RAM to be installed on the MEMO PC board (OP-9000-PIGGYBACK) for memory expansion. When expanding the memory, install the two modules as one set. | See Note 1 and 3 |
| | | OP-9000-SRAM-512KB | DIP type S-RAM to be installed on the MEMO PC board (OP-9000-PIGGYBACK-S/F) for memory expansion. When expanding the memory, install the two modules as one set. | |
| Power Cord | | ---------- | Please locally purchase a power cord of proper length for the installation location. Power cord shall be a standardized article of each destination. | See Note 1 |
| 10 Base T (LAN) Interface Board (SL-9000N only) | | OP-9000N-LAN | This board enables the SL-9000N to be used in a LAN network. | See Note 1 |
| LAN Cable Kit (SL-9000N only) | | OP-9000N-LAN-FFH | This kit is required when installing the OP-9000N-LAN (LAN Interface Board) on the SL-9000N-FFH. | See Note 1 |

**NOTES:**
1. *Contact TOSHIBA TEC H.Q. or your nearest TOSHIBA TEC representative.*
2. *Order from TOSHIBA TEC Parts Center or purchase locally.*
3. *When purchasing memory modules locally, select one having the following specifications.*
   *Maker: HITACHI Pseudo Static RAM (OP-9000-RAM-512KB)*
   *HITACHI Static RAM (OP-9000-SRAM-512KB)*
   *Type: HM658512ALP-8V 80 ns, 600 mil 32-pin Plastic DIP (DP-32) (OP-9000-RAM-512KB)*
   *HM628512ALP-770ns, 600mil 32-pin Plastic DIP (DP-32) (OP-9000-SRAM-512KB)*
4. *The MEMO PC Board (with Flash ROM) is installed in the SL-9000N model as standard.*

# 3. APPEARANCE

LON Interface

LAN Interface
(SL-9000N option)

TMCC Interface
(Option)

Power Inlet

Front Display

Rear Display

Main          Power

Keyboard Frame

Operation/Speed/
Programming
Keyboard

Printer Cover

CMT/PL-3 Interface

Print Head

Platter
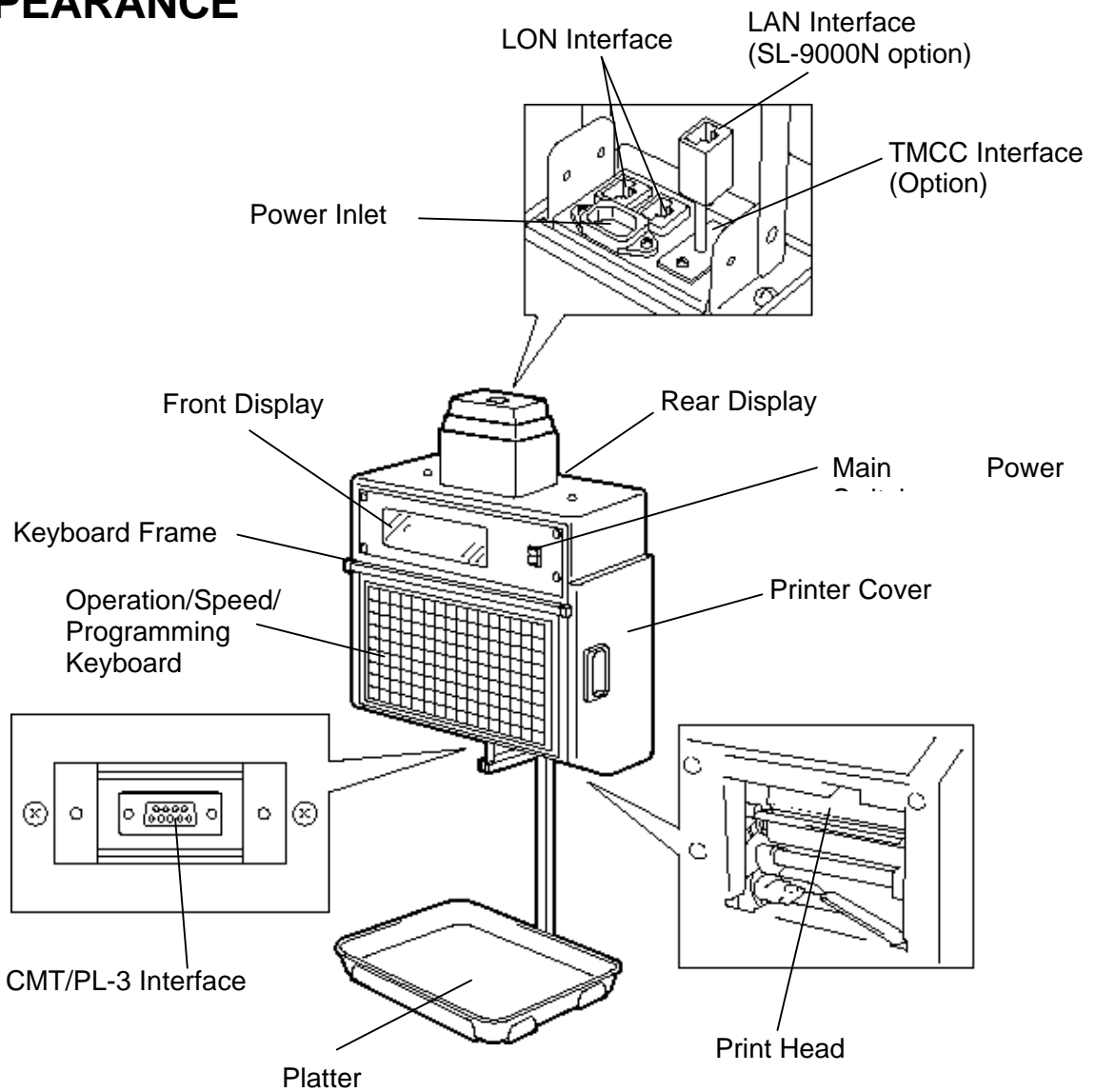
**NOTE**:  *To set the speed/operation key sheet, open the keyboard frame and insert the two tabs of the
key sheet into the two slots of the keyboard frame bottom.*

# 4. DISPLAY

## 4.1  US TYPE
■  **Front Display Panel**
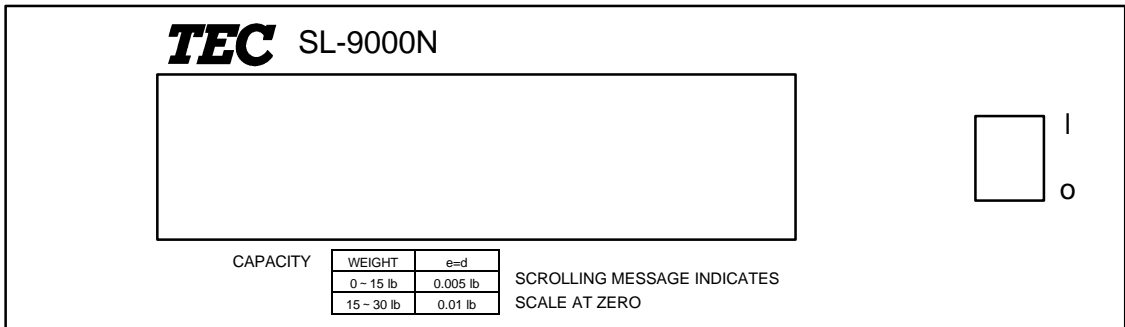


■  **Rear Display Panel**

## 4.2  CA/QR TYPE

■    **Front Display Panel**



| CAPACITY | WEIGHT | e=d | WEIGHT | e=d |
|---|---|---|---|---|
| | 0   6 kg | 0.002 kg | 0   15 lbs | 0.005 lbs |
| CAPACITÉ | 6   15 kg | 0.005 kg | 15   30 lbs | 0.01 lbs |

■    **Rear Display Panel**



| CAPACITY | WEIGHT | e=d | WEIGHT | e=d |
|---|---|---|---|---|
| | 0   6 kg | 0.002 kg | 0   15 lbs | 0.005 lbs |
| CAPACITÉ | 6   15 kg | 0.005 kg | 15   30 lbs | 0.01 lbs |
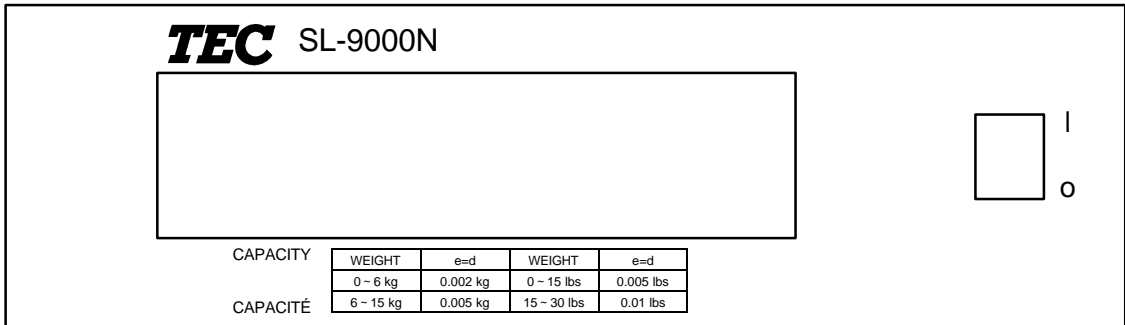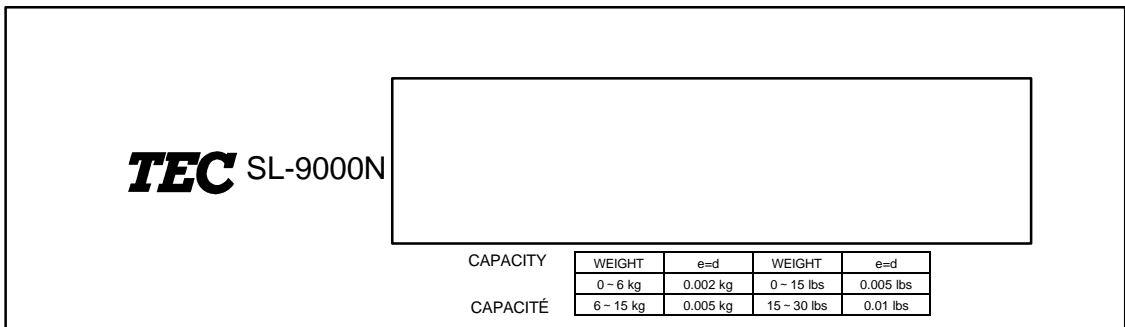
*NOTE: For the SL-9000 model, the model name on the display panel is "SL-9000".*

# 5.  KEY LAYOUT
## 5.1  PROGRAMMING KEYBOARD
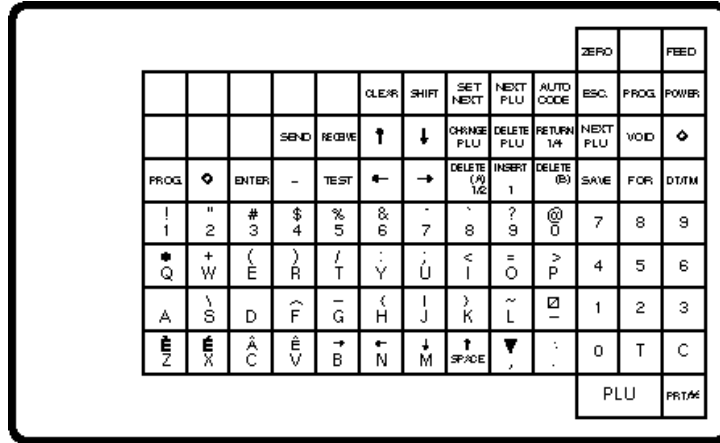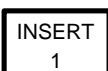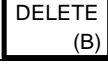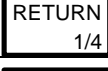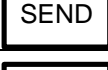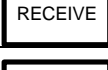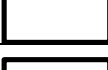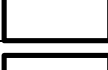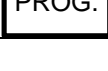


NOTE:    *Blank keys have no function.*

### Programming Keyboard Function

| Name of Key | Function |
|---|---|
| CLEAR | 1.  Clears numeric data just entered.<br>2.  Releases the scale from the error mode. |
| SHIFT | Selects the upper case or lower case. |
| SET NEXT | Calls the PLU # which follows the PLU # currently called.<br>Sets the media transparency on the sensor. |
| NEXT PLU | Calls the PLU # registered right after currently called PLU #. |
| AUTO CODE | Sets "AUTO CODE". |
| CHANGE PLU | Changes the PLU # currently called. |
| DELETE PLU | Deletes PLU. |
| TEST | Prints data set in the currently called PLU. |
| ENTER | Inputs data to the SL-9000 system during programming. |
| VOID | Displays the preceding PLU data. (only when changing the unit price) |
| RPT/ * | Inputs data to the SL-9000 system during programming. (only when changing the unit price) |
| ESC. | Returns to the main menu. |

# 5. KEY LAYOUT

| Name of Key | Function |
|---|---|
| | 1. Displays the preceding PLU data.<br>2. Used to set an auto code.<br>3. Calls the preceding label format # when setting the print position. |
| | Moves the cursor to left. |
| | Moves the cursor to right. |
| DELETE (A) 1/2 | 1. Deletes a character selected by the cursor when setting the commodity name or message.<br>2. Sets a unit price per 1/2 lb. |
| INSERT 1 | 1. Inserts a space at the cursor position when setting the commodity name or message.<br>2. Sets a unit price per lb/100g/Kg. |
| DELETE (B) | Deletes all characters on the current setting line when setting the commodity name or message. |
| RETURN 1/4 | 1. Displays the next line when setting the ingredient and message.<br>2. Sets a unit price per 1/4 lb. |
| SPACE | Inserts a blank space in descriptors. |
| SEND | Stores "ingredient data" in the temporary memory. |
| RECEIVE | Calls "ingredient data" from the temporary memory. |
| | Sets the preceding item when setting PLU and nutrition information. |
| | Sets the following item when setting PLU and nutrition information. |
| PROG. | Returns to the programming menu. |
| | 1. Changes the programming menu page.<br>2. Selects capitals or small letters.<br>3. Sorts the file when setting PLU data, ingredient data and nutrition data.<br>4. Sets a block PLU # using the confirmation label procedure.<br>5. Selects the scrolling message or fixed message.<br>6. Changes the speed key page and sets a department #.<br>7. Selects the adjusting item of print format in rotation.<br>8. Toggles between In-line and Local or in-line and off-line of LON system. |
| Other Keys | The other keys are used to set the character. |

# 5.2 OPERATION KEYBOARD AND SPEED KEYBOARD

|   | US type | CA, QR type |
|---|---------|-------------|
| ① | 1/2 | 100g |
| ② | 1/4 | LB/kg |



NOTES:
1. Pressing the ◇ key enables another 108 PLUs assignment.
2. When the initial setting #8-7 is set to 1 (SL-9000) or #28-4 is set to 1 (SL-9000N), the (3) key will function as a Tare% key instead of a speed key.
3. When the initial setting #12-8 is set to 1, the (4) key will function as an AUTO/MANUAL key instead of a speed key.

## Operation Keyboard Function

| Name of Key | Function |
|-------------|----------|
| 0 to 9 | Enters PLU #, unit price and tare. |
| C | 1. Clears numeric entries.<br>2. Releases the scale from error mode.<br>3. Releases the scale from SAVE mode. |
| T | Subtracts tare. |
| PLU | Calls a PLU or clears displayed PLU. |
| PRT/* | Prints the customer label. |
| SAVE | Saves tare and unit price after taking off the commodity from a platter. |
| FOR | Sets the number of articles in "BY COUNT" mode. |
| DT/TM | Displays the date. |
| NEXT PLU | Selects the item for change Print/OFF. |

5- 3

## Operation Keyboard Function

| Name of Key | Function |
|---|---|
| VOID | Corrects data just after the registration. |
| | 1. Selects the speed key page.<br>2. Selects the function for change Print/OFF. |
| ESC. | Returns to the main menu. |
| PROG. | Accesses print item, auto message timer, print format and issue mode selection mode. |
| POWER | Turns the display on/off when the scale power is on. |
| 1/2  1/4 | Changes between 1/2 lb and 1/4 lb (US type only). |
| 100g | Changes the unit of measure to 100 g (CA/QR type only). |
| LB/kg | Changes the unit of measure between lb and kg (CA/QR type only). |
| PRESET COUNT | Sets the number of labels to print. |
| GRADE LINE | Prints a grade line. |
| LOGO | Calls the logo. |
| GROUP # | No function. |
| ST | No function. |
| % | This key is used for item or subtotal discount by entering a percentage.<br>(Optional key by initial setting) |
| FEED | Feeds the label. |
| TEST | Issues a test label. |
| ZERO | Adjusts the zero point. |
| AUTO/ MANUAL | Changes the label issue mode between Automatic issue and manual issue.<br>(Optional key by initial setting) |
| 1 to 108 | Calls the PLU frequently used. |

# 6.  PROCEDURE BEFORE OPERATION

1.    Ask an authorized installing dealer for the scale installation.    Please contact your nearest TOSHIBA TEC representative.
2.    Hang the platter arm from the scale.    (See page 7-1.)
3.    Load the label or receipt.
4.    Set the following programming menus:

| Menu Page | ITEM No. | Programming Name |
|-----------|----------|------------------|
| 2 | 0 | PRINT FORMAT |
| 2 | 1 | DATE/TIME SETTING |
| 1 | 1 | PLU DATA SETTING |

If necessary, set the following program menu:

| Menu Page | ITEM No. | Programming Name |
|-----------|----------|------------------|
| 1 | 2 | INGREDIENT MESSAGE |
| 1 | 3 | NUTRITION SETTING |
| 1 | 5 | ADDRESS AND COMMECIAL MESSAGE SETTING |
| 1 | 7 | SPECIAL INFORMATION |
| 1 | 8 | GRADE LINE |
| 1 | 9 | SPEED KEY SET |

5.    Call a PLU which contains the unit price used in weighing mode, then place a weight on the platter and check a correct price is displayed.
6.    Label issued is ready.

*NOTE: For details of the programming menus, refer to Section 10.*

# 7. INSTALLATION PROCEDURE

## Scale installation on the wall or ceiling
The installation should be an authorized installing dealer.
Please contect your nearest TOSHIBA TEC representative.

## Platter

1. Attach the two platter mount plates to the platter arm with the four D-4x8 screws.
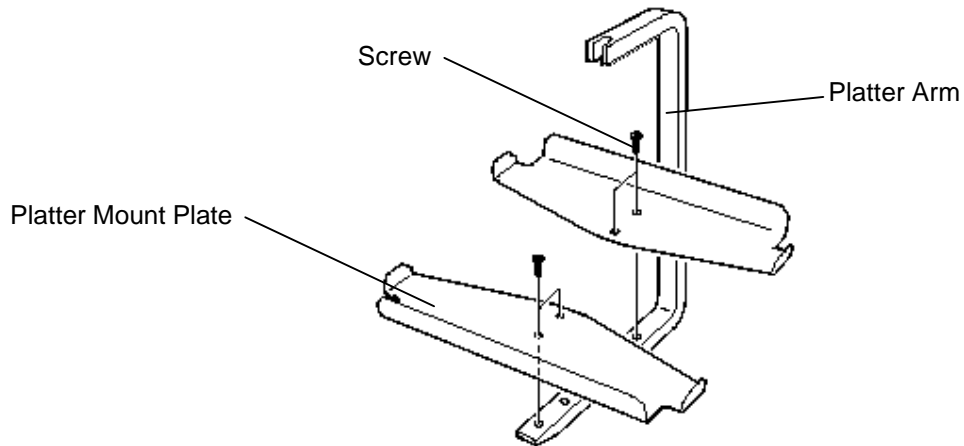


2. Fit the notch of the platter arm on the joint nut of the scale.
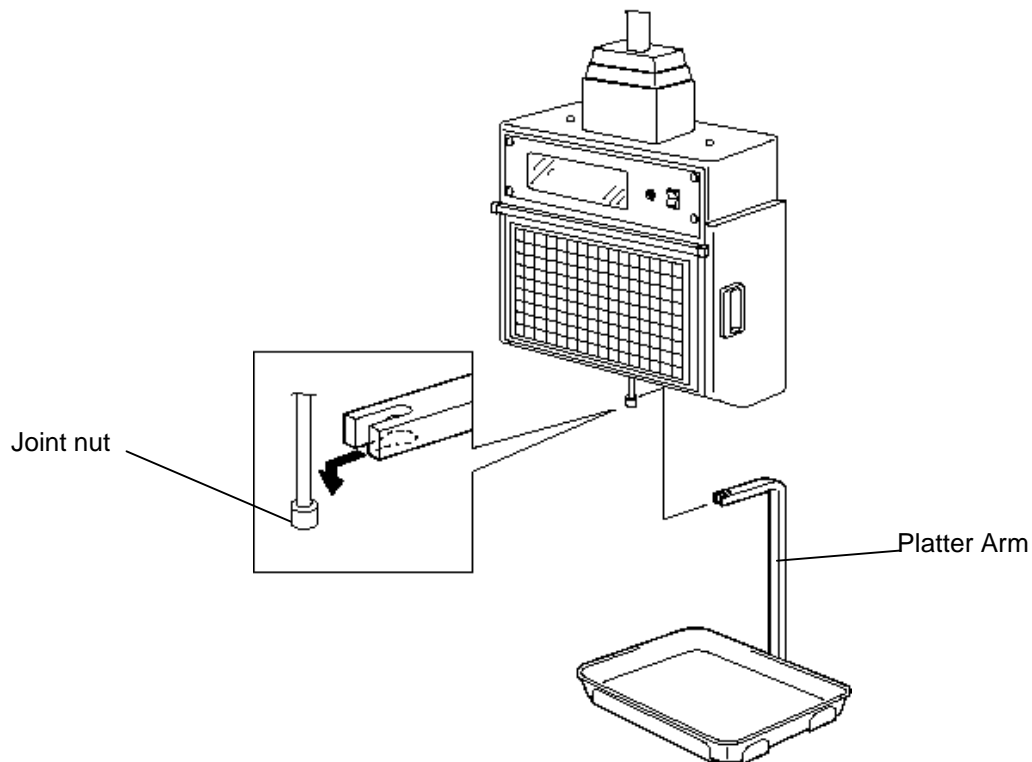
# 8.  REMOVAL AND REPLACEMENT OF RECEIPT/LABEL

1. Open the printer cover and turn the head-up lever to the anticlockwise.
2. Pull out the roll stopper and backing paper stopper, then remove the receipt/label core with the backing paper.  You can loosen the backing paper by turning the paper winding shaft anti-clockwise.

Head-up Lever

Receipt/Label Core

Roll Stopper

Backing Paper (Labels only)

Backing Paper Stopper

Paper Winding Shaft

3. Put a new receipt/label roll over the media shaft and fix it with the roll stopper.

Media Shaft

Receipt/Label

Roll Stopper

4. Insert the tip of the receipt/label into the print head.
5. Align the two media guides with the right edge of the receipt/label.

Media Guide

Media Guide
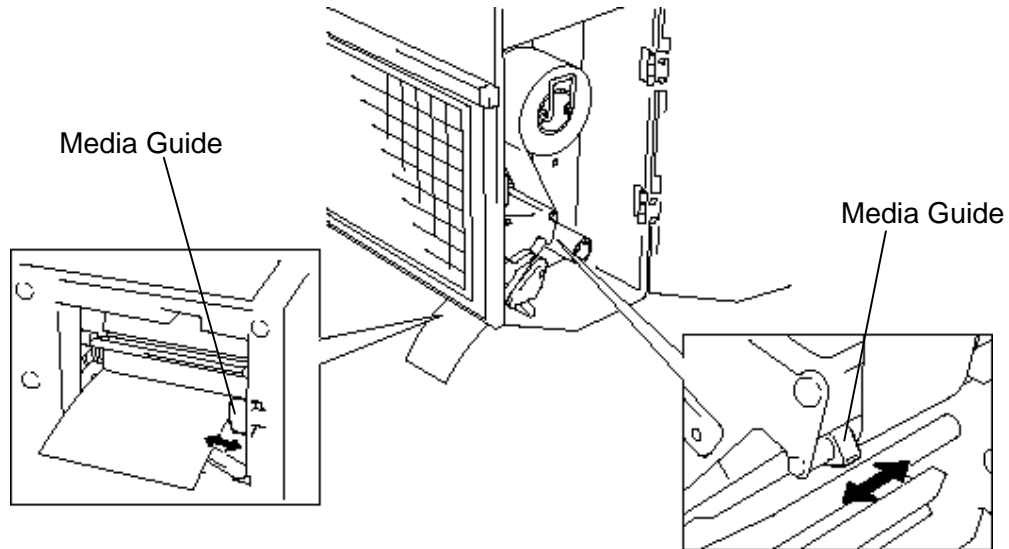
6. Thread the receipt/label as shown below.
   **NOTE:** *Labels and receipts should be left-aligned as viewed from the front of the machine, and always threaded in parallel with the media shaft and the print head.   Failure to do this may cause a paper jam or a skew feed.*
7. Turn the head-up lever to the arrow indicating direction to set the print head in position.

(Label threading method)                    (Receipt threading method)

Label

Receipt

Head-up Lever

Winding Roll

Print Head

Head-up Lever

Backing Paper Stopper
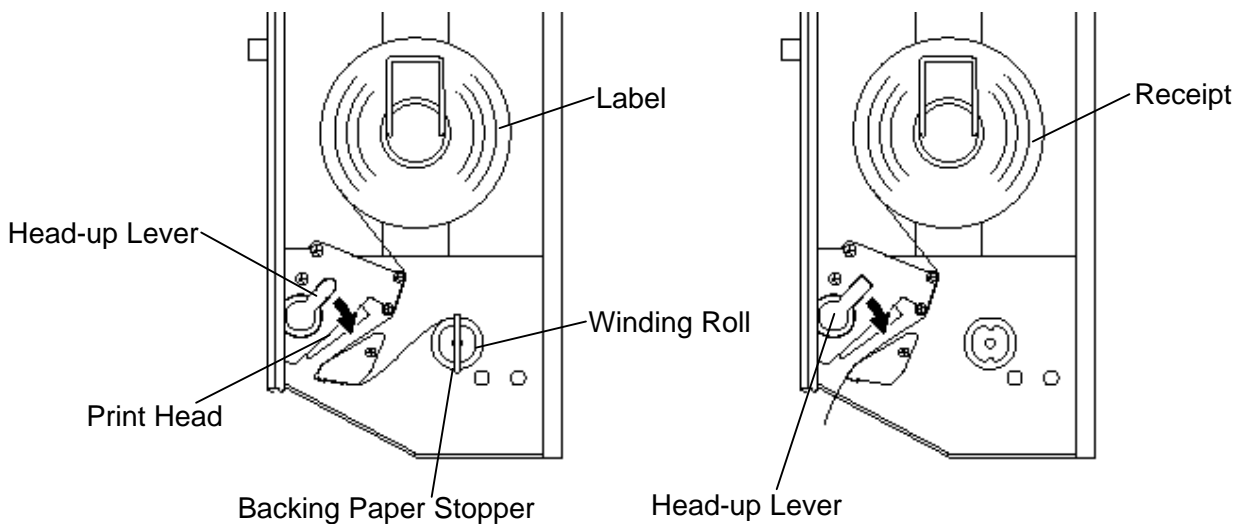
8. Close the printer cover.
9. Finally press the Feed key to confirm that the labels/receipts are loaded correctly.

# 9. OUTLINE OF OPERATION
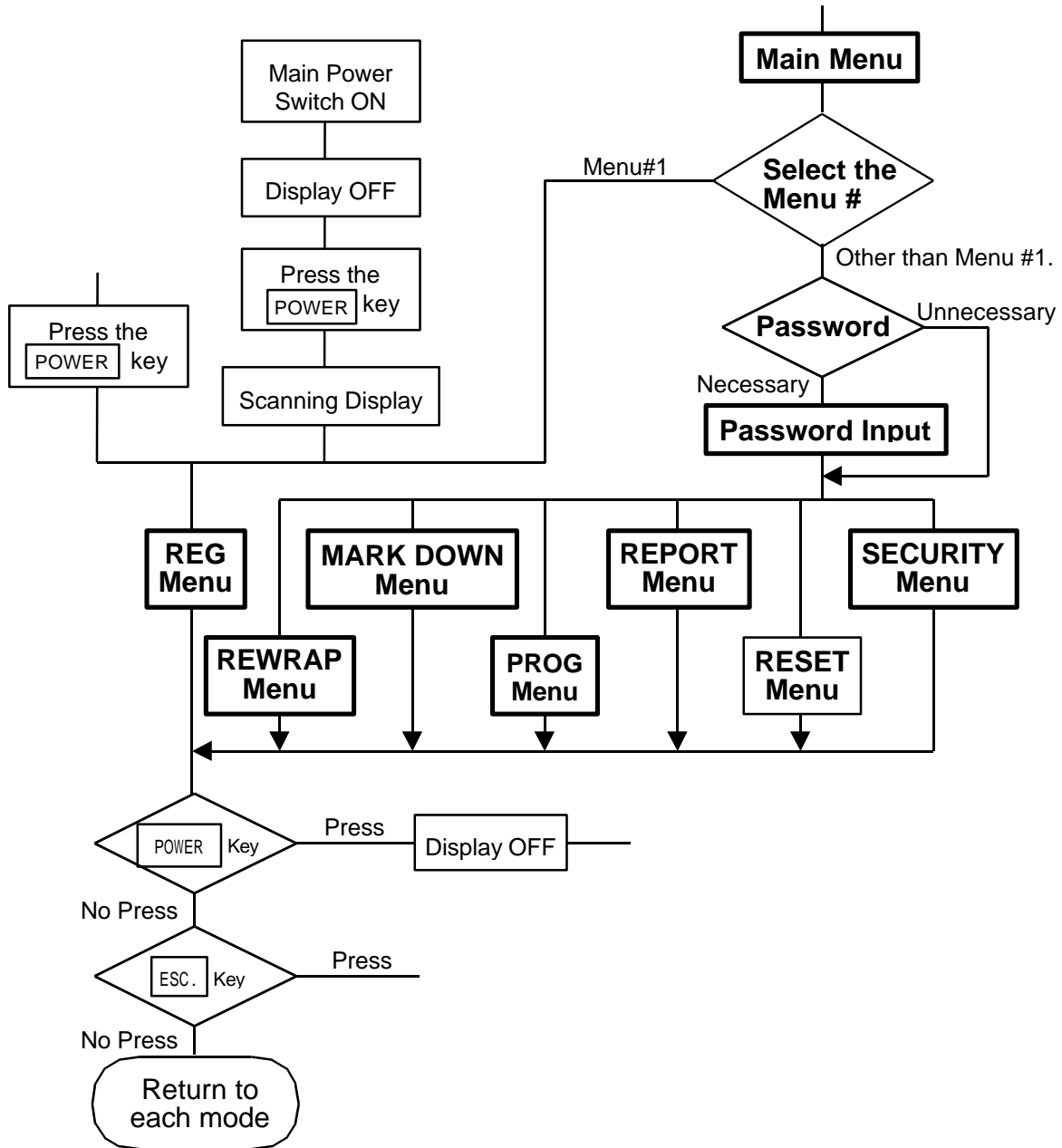


**NOTES:**

1. *You can register a password to avoid unauthorized access to each menu except for REG. menu.*
2. *To avoid unneeded use of the display, press the* POWER *key to turn the display off while being unused. Pressing the* POWER *key again allows you to enter REG mode without scanning.*
3. *Refer to respective sections for explanation of each menu enclosed by a thick rectangle.*

# 10. PROGRAMMING PROCEDURES

## How to access to Programming Menu
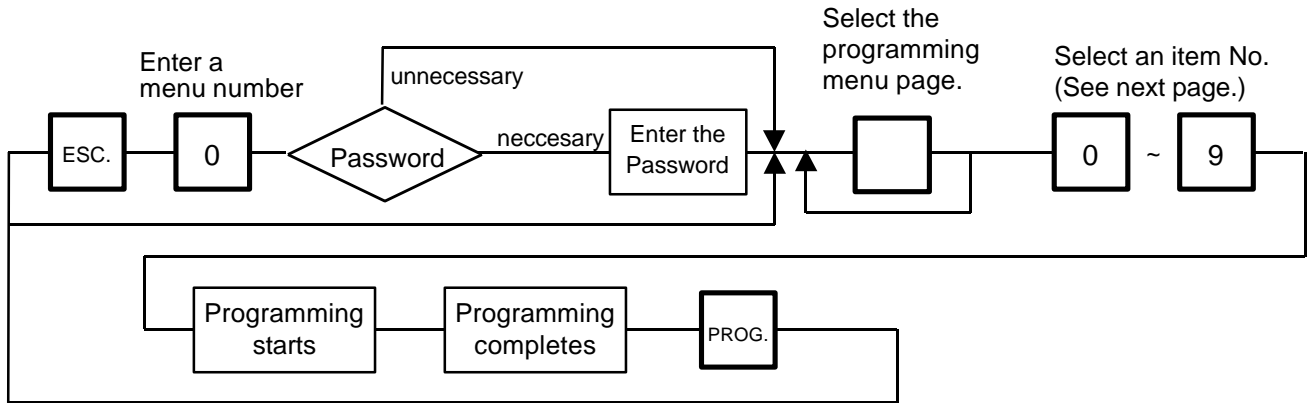


***NOTES:***
1. *When the selected menu ( 0 ) is protected from an access, refer to Section 12.2 and enter the password.*
2. *In Section 10.1, 10.2 and 10.3, items which have been sold on that day cannot be called before resetting (refer to Section 14) unless Initial Set #1-4 is set to 1.*

```
<Menu> PROG.1

0. PLU DATA EDIT          5. MESSAGE
1. PLU DATA               6. MSG. COMBINATION
2. INGREDIENT             7. SPECIAL INFO
3. NUTRITION              8. GRADE LINE
4. CONFIRMATION LABEL     9. SPEED KEY SET
```

```
<Menu> PROG.2

0. PRT LOCATION           5. INITIAL SET
1. DATE TIME              6. BAR CODE FORMAT
2. CMT                    7. TITLE
3. ON-LINE/LOCAL          8. LOGO
4. LON SYSTEM             9. IDIOM
```

```
<Menu> PROG.3

0. VENDOR
1. FREE FORMAT
2. LAN SYSTEM (SL-9000N only)
```
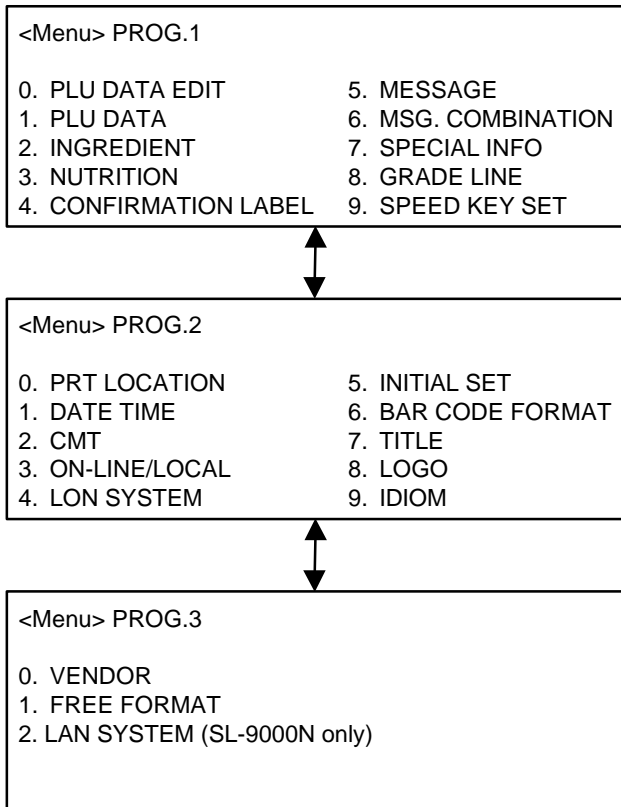
## 10. PROGRAMMING PROCEDURES

## Title and Contents of Programming Menu

Table 1.

| NO. | TITLE | MENU PAGE | ITEM NO. | CONTENTS | Page |
|---|---|---|---|---|---|
| 1 | PLU DATA EDIT | 1 | 0 | CHANGE UNIT PRICE | 10-4 |
| 2 | PLU DATA | 1 | 1 | PROGRAM/CHANGE/DELETE PLU | 10-5 |
| 3 | INGREDIENT MESSAGE | 1 | 2 | PROGRAM/CHANGE INGREDIENT | 10-7 |
| 4 | NUTRITION SETTING | 1 | 3 | PROGRAM/CHANGE NUTRITION FACTS TABLE | 10-8 |
| 5 | CONFIRMATION LABEL | 1 | 4 | VERIFY THE PROGRAMMING DATA OF PLU | 10-12 |
| 6 | ADDRESS OR MESSAGE SETTING | 1 | 5 | PROGRAM MESSAGE/ADDRESS | 10-13 |
| 7 | COMBINATION MESSAGE | 1 | 6 | PROGRAM MESSAGE ON DISPLAY AND TIME | 10-14 |
| 8 | SPECIAL INFO. | 1 | 7 | PROGRAM SPECIAL INFORMATION | 10-16 |
| 9 | GRADE LINE | 1 | 8 | PROGRAM GRADE LINE | 10-16 |
| 10 | SPEED KEY SETTING | 1 | 9 | ASSIGN COMMON PLU TO SPECIFIC SPEED KEY | 10-17 |
| 11 | PRT LOCATION | 2 | 0 | SELECT LABEL FORMAT AND ADJUST | 10-18 |
| 12 | DATE/TIME SETTING | 2 | 1 | PROGRAM DATE/TIME/MACHINE #/STORE CODE | 10-20 |
| 13 | CMT/PL-3 | 2 | 2 | BACK-UP/LOAD DATA OF PLU/ING/NUTRI./SPEED KEY | 10-20 |
| 14 | IN-LINE/LOCAL | 2 | 3 | SET PARAMETERS FOR TMCC | 10-23 |
| 15 | LON SYSTEM | 2 | 4 | SET PARAMETERS FOR LON | 10-24 |
| 16 | INITIAL SET | 2 | 5 | SET INITIAL PARAMETERS | ---- |
| 17 | BAR CODE FORMAT | 2 | 6 | PROGRAM BARCODE FORMAT | 10-26 |
| 18 | TITLE | 2 | 7 | PROGRAM/CHANGE TITLE ON DISPLAY/PRINT | 10-28 |
| 19 | LOGO | 2 | 8 | SEND/RECEIVE LOGO DATA | 10-29 |
| 20 | IDIOM | 2 | 9 | PROGRAM IDIOM | 10-30 |
| 21 | VENDOR | 3 | 0 | VENDOR NAME | 10-30 |
| 22 | FREE FORMAT | 3 | 1 | PROGRAM FREE FORMAT | 10-31 |
| 23 | LAN SYSTEM (SL-9000N only) | 3 | 2 | PROGRAMS PARAMETERS FOR LAN | ---- |

*NOTE*: *Menu No. 16 and 23 are program for use of dealers.  Contact your nearest TOSHIBA TEC representative if you desire to use them.  When you enter one of these menus by mistake, press* **[ESC.] key** *to return to Main Menu.*

## How to enter characters

Use the following procedure to enter a commodity name, address and ingredient message.

Example)　1st line:　TEC STORE
2nd line:　(TEL) 0123-45-6789

| T | E | C | SPACE | S | T | O | R | E | RETURN 1/4 |

1 st line content

| SHIFT | ( | SHIFT | T | E | E | ← | DELETE (A) 1/2 | L | 6 | 7 | 8 | 9 |

2 nd line content
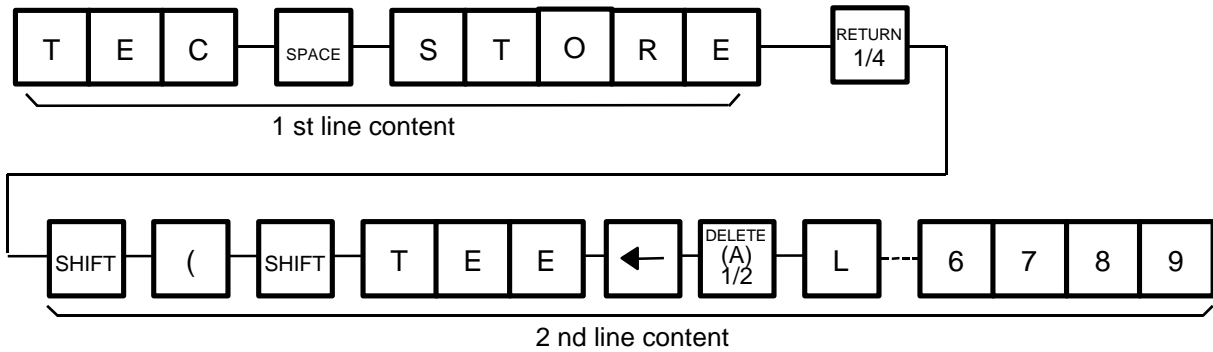
*NOTES:*
1. ☐ *and* ☐ *keys are the cursor keys.*
2. *To insert a space, move the cursor to the next character to the space to be inserted, and press* INSERT *key.*
3. *To delete a line, press* DELETE (B) *key.*
4. *To move the cursor to the preceding line when entering a commodity name, press* − *key, or* ☐ *key.*
5. *Pressing the* ◇ *key toggles between the capital and small letter.*
6. *When entering a commodity name, press or* ENTER *key instead of the* ☐ *key to* RETURN 1/4 *return.*
7. *Pressing the* CHANGE PLU *key toggles the type font between normal and boldface.*
8. *To call a preset ingredient message idiom, follow the procedure below:*

| PLU NEXT | → | Enter the idiom #. | → | RETURN 1/4 |
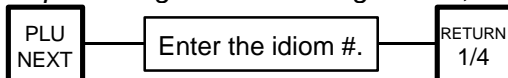
9. *To skip a line when entering an ingredient message, follow the procedure below:*

| SET NEXT | → | Enter the line #. | → | RETURN 1/4 |
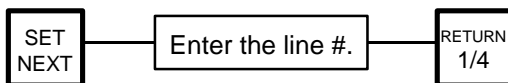
## 10.1    PLU DATA EDIT

Menu Page: 1
Item No.:    0

In this procedure, use operation keys (except when calling a PLU by using a speed key).
The unit price stored in a PLU can be changed with this menu.
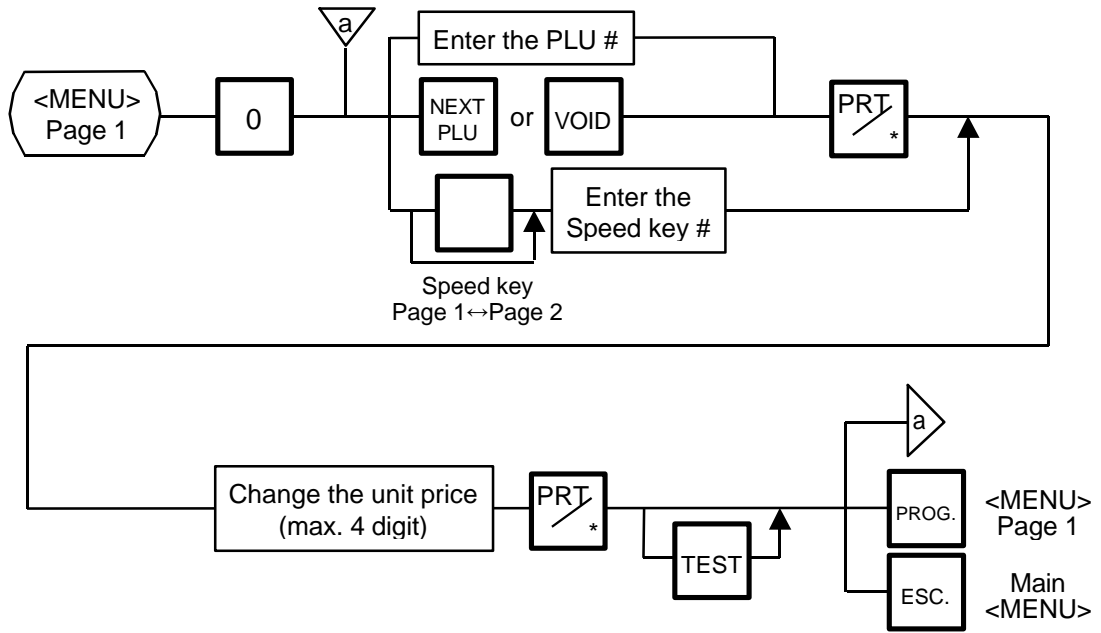


***NOTES:***
*1. An attempt to call a PLU # that has not been stored in the PLU file results in an error.*
*2. Under this Menu (Menu No. 0), "open-price" PLU's price cannot be changed.*

## 10.2   PLU DATA SETTING

Menu Page: 1
Item No.:    1

Setting or changing the contents of PLU (PLU#, UPC#, Commodity Name, etc).
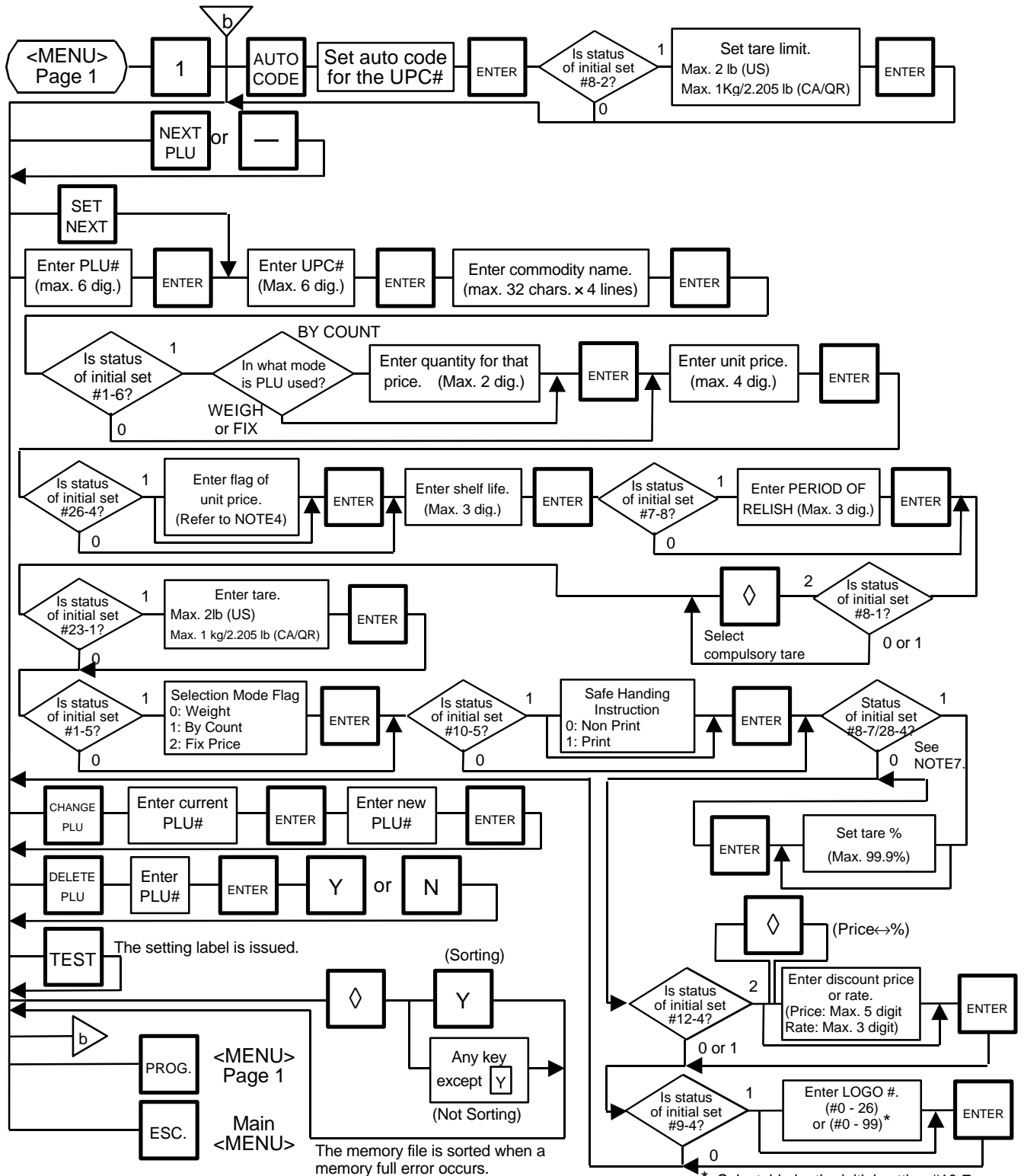


10- 5

Pressing the ☐ key instead of the ENTER key advances to the next menu.    Pressing the ☐ key returns to the preceding menu.

Verification label of PLU data

```
                    CREAM CAKE  ──────────────── Commodity Name

                                                    Mode Flag  (W: Weigh, F: Fix, B: By-count)
                         PACKED ON  DEC 28  ──────── Compulsory Tare (C: Compulsory,
                             SELL BY   7 B C ──────── Shelf Life          Blank: Not compulsory)
Preset Tare ────                                 ──── Preset % Tare
Quantity ────  T1.000    5 PIECES    T15.0% ──
PLU# ────      000005     3.00     654321 ──────── Price
               NET WT.    PRICE    TOTAL PRICE
                    TEC STORE                 ──── UPC#
                  (TEL) 0123-45-6789
```
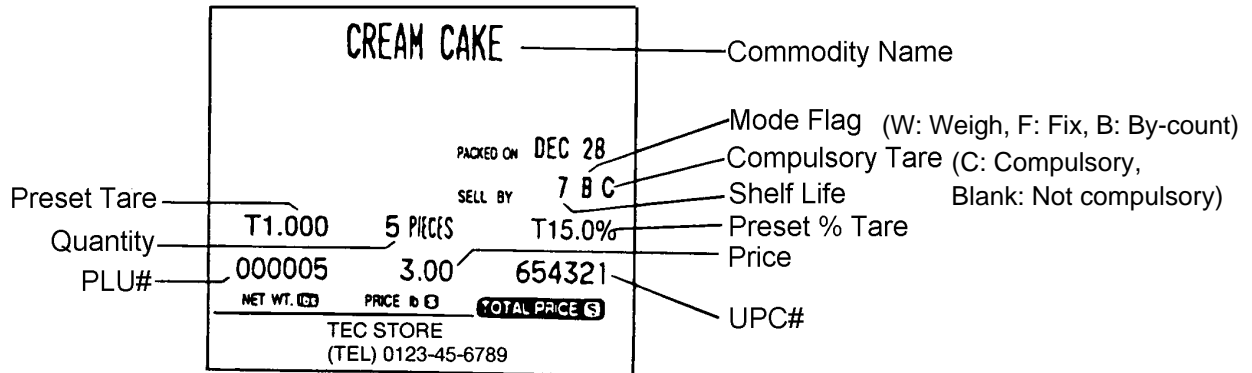
### NOTES:
1.  A UPC code is made up of a combination of an entered code and an AUTO CODE.   Be sure to attach some ☐-☐ characters to the end of the AUTO CODE, or all entered codes will be ignored and an AUTO CODE will become an UPC code (see ex. 1).

    ex. 1)   enter code:    456           ex. 2) enter code:    4567     ex. 3) enter code:    123456
             AUTO CODE:  123- - -              AUTO CODE: 123- - -          AUTO CODE: 987

             code#: 123456                     code#: 123567                code#: 987

2.  When there is no area to store PLU data, an error occurs when pressing the ENTER key.
3.  Changing a PLU # to the number to which other PLU data is set will result in an error.
4.  Unit price flag may be selected as follows:
    1)  In case of lb scale
        a. INSERT 1         key  :  $ per lb

        b. DELETE (A) 1/2   key  :  $ per 1/2 lb

        c. RETURN 1/4       key  :  $ per 1/4 lb

    2)  In case of kg scale
        a. INSERT 1         key  :  $ per 100 g or Kg
5.  Tare limit should be a multiple of 5, up to 2.000 lb for US type and a multiple of 2, up to 1.000 Kg for CA/QR type.
6.  Safe handling instructions can be printed on 57-mm wide labels only.   Safe handling instructions are printed on labels formatted for ingredient messages.   Only ingredient message labels with 13   or more lines can be used to print safe handling instructions. Available print formats are as follows:
    13 (63), 15 (65), 16 (66), 23 (73), 25 (75), 26 (76), 33 (83), 35 (85), 36 (86), 41, 42, 43, 48 and 49.
7.  Tare % indicates a percentage of tare in gross weight, which is available when the Initial Setting #8-7 is set to 1 (SL-9000) or #28-4 is set to 1 (SL-9000N).
8.  When setting open prices in the count mode (Initial Setting #1-6: 1), set zeros as quantity and unit price.

## 10.3 INGREDIENT MESSAGE

Menu Page: 1
Item No.:  2

Ingredient messages can be printed on a label with a maximum of 54 characters per line using small letters or 32 characters per line using boldfaced small letters.   Will print up to 38 lines.
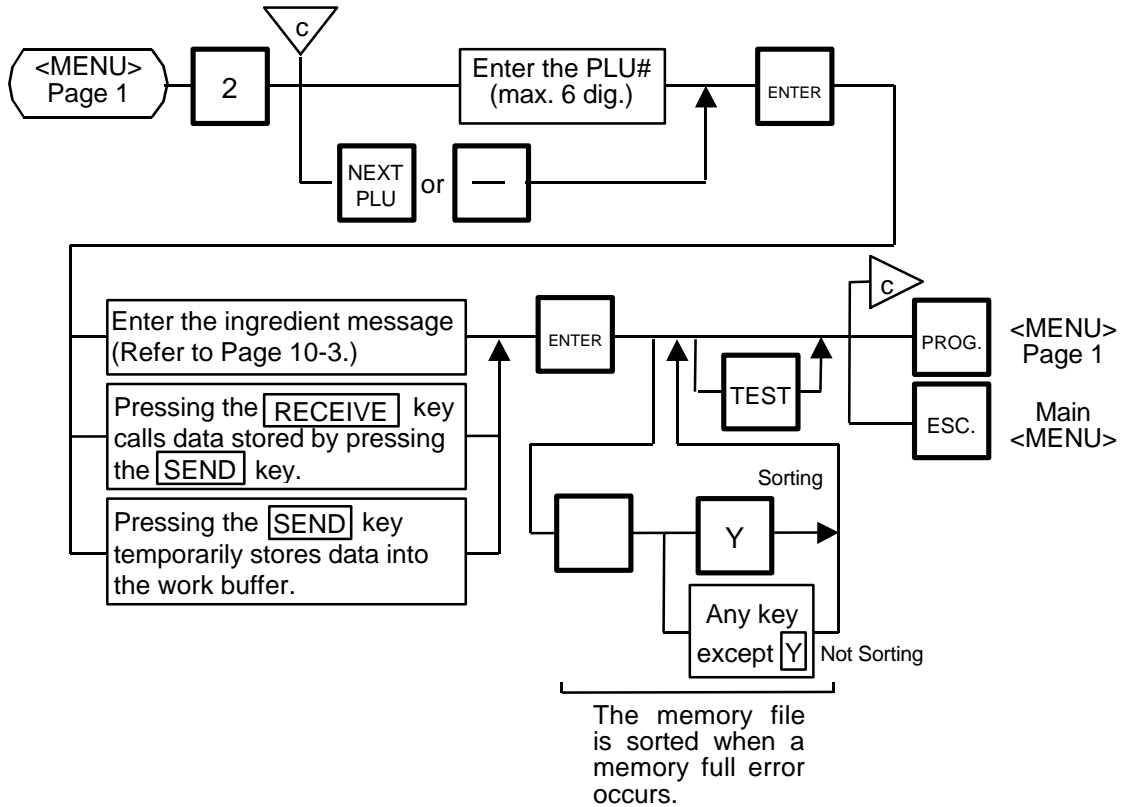


*NOTES:* 1. *When no data is programmed for the PLU, ingredient cannot be set.*
  2. *When a selected PLU is not stored in the PLU file, a " PLU NOT FOUND" error occurs.*
  3. *Once you exit this menu and enter again, data stored in the work buffer is cleared.*
  4. *When there is no area to store ingredient data, a "MEMORY FULL" error occurs.*
  5. *Different PLUs cannot use the same ingredient data.  (PLU and ingredient data are in pairs.)*

## 10.4 NUTRITION SETTING

Menu Page: 1
Item No.:    3

Using the following procedure, nutrition information and caloric intake can be set.
Serving Size and Servings Per Container consist of a maximum of a 18 characters.   However, total number of characters including title characters must not exceed 30.
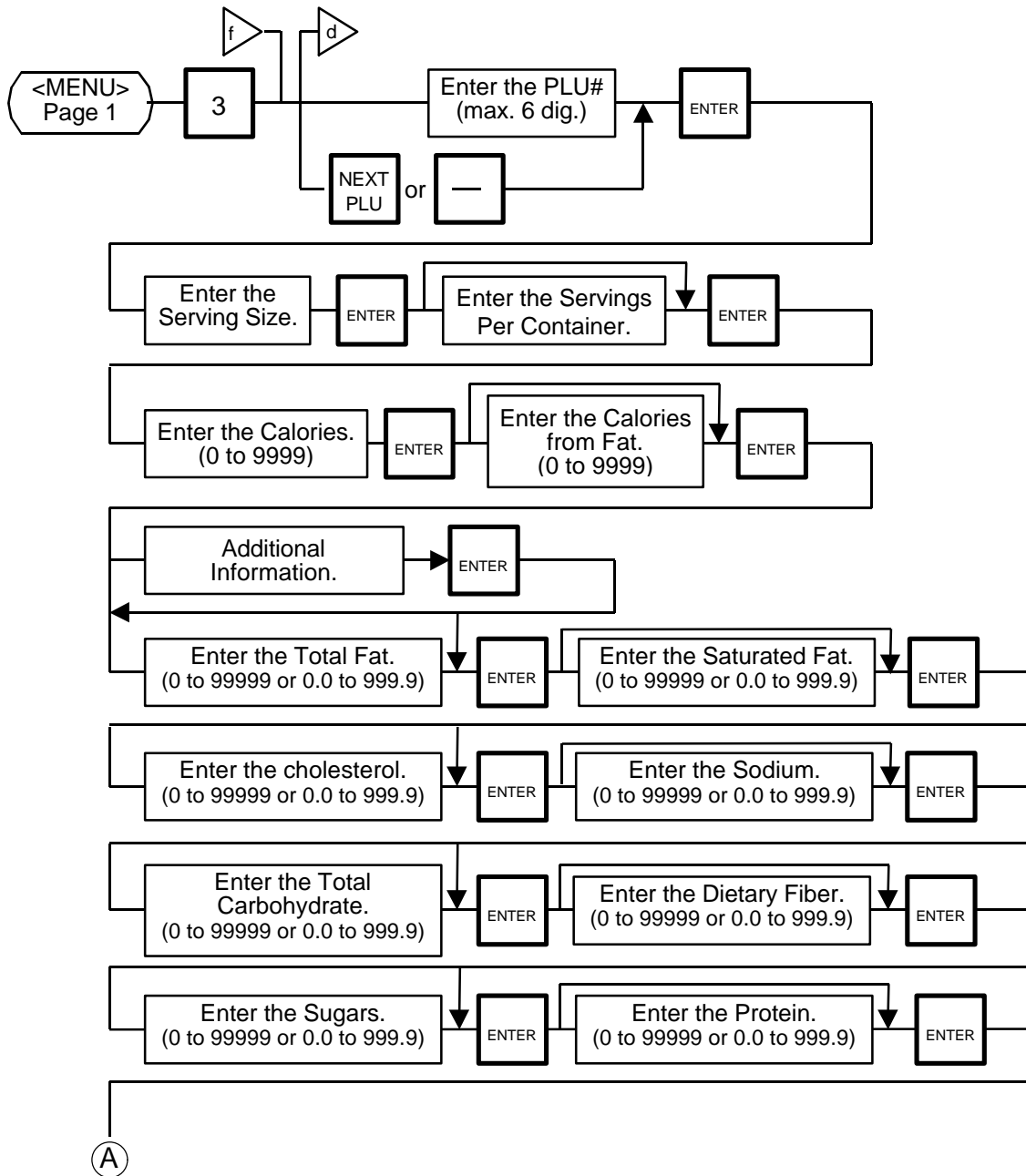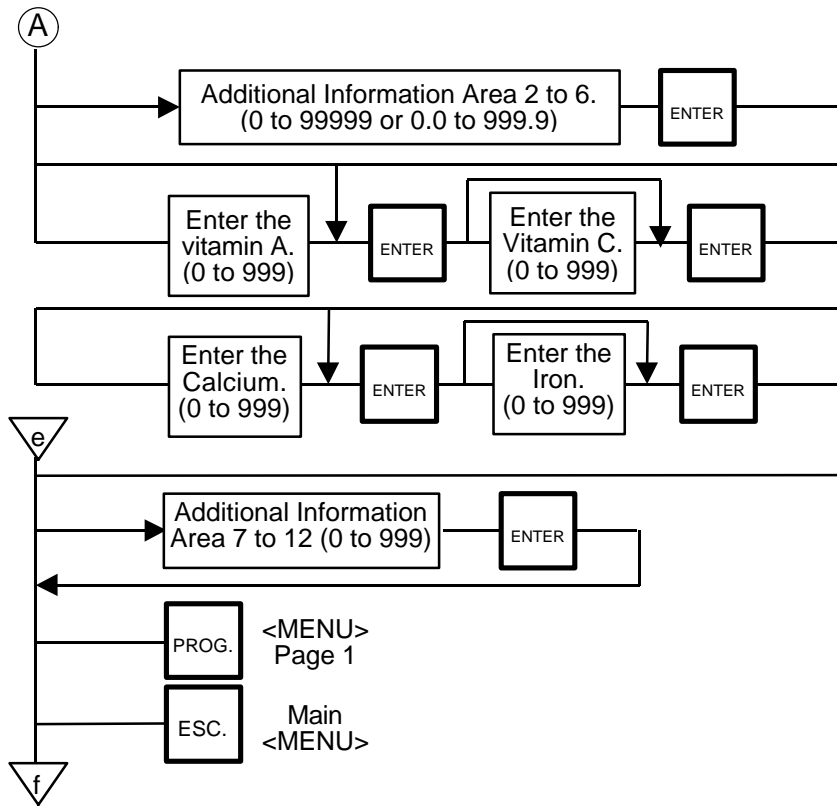
(A)

Additional Information Area 2 to 6.
(0 to 99999 or 0.0 to 999.9) — ENTER

Enter the vitamin A. (0 to 999) — ENTER — Enter the Vitamin C. (0 to 999) — ENTER

Enter the Calcium. (0 to 999) — ENTER — Enter the Iron. (0 to 999) — ENTER

(e)

Additional Information Area 7 to 12 (0 to 999) — ENTER

PROG.   <MENU> Page 1

ESC.   Main <MENU>

(f)

*Pressing the ☐ key instead of the* ENTER *key advances to the next menu.  Pressing the ☐ key returns to the preceding menu.*

***NOTES:***
*1. When a selected PLU# is not stored in the PLU file, an error occurs.*
*2. Nutrition file is input each time the* ENTER *key is pressed.  Thus, if you quit the procedure on the way, data entered without pressing* ENTER *key is not stored.*
*3. The additional information can be used only when its title has been registered in Section 10.17.*

## Set the Daily Value Table
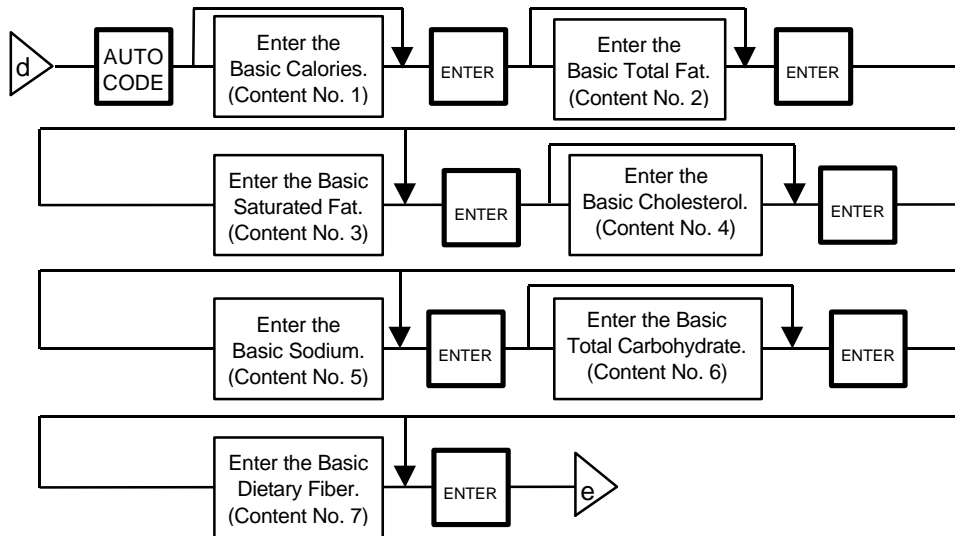


### NOTES:
1. DAILY VALUE (Max. 8 digits)
   1) The contents of Daily value

| Contents | upper 4 digits | lower 4 digits |
|----------|----------------|----------------|
| No. 1 | Percentage of necessary daily intake of Calories | Necessary daily intake of Calories |
| No. 2 | Percentage of necessary daily intake of Total Fat | Necessary daily intake of Total Fat |
| No. 3 | Percentage of necessary daily intake of Saturated Fat | Necessary daily intake of Saturated Fat |
| No. 4 | Percentage of necessary daily intake of Cholesterol | Necessary daily intake of Cholesterol |
| No. 5 | Percentage of necessary daily intake of Sodium | Necessary daily intake of Sodium |
| No. 6 | Percentage of necessary daily intake of Total Carbohydrate | Necessary daily intake of Total Carbohydrate |
| No. 7 | Percentage of necessary daily intake of Dietary Fiber | Necessary daily intake of Dietary Fiber |

   2) The necessary daily intake of calories can be changed by changing the above table data, and percentage will be changed accordingly.
2. Percentage of daily intake
   1) Percentage data are printed in right justified 3 digits with zero suppression.
   2) Under the following conditions, an error occurs and data will be printed as '- - - %'.
      Percentage data exceeds 3 digits (999 %).
      Data is entered improperly.
         Other than $\times \times \times \times \times$ or $\times \times \times .\times$
         Other than numerals (0 to 9) and a point '.'
   3) Calculation
         (input data)/(necessary daily intake)$\times$ 100
         = Percentage of daily value
         (round the obtained data to one decimal place)

### Deleting Nutrition Data

d ▷ → [ DELETE PLU ] → [ Enter the PLU# (max. 6 dig.) ] → [ ENTER ] → ▷ e
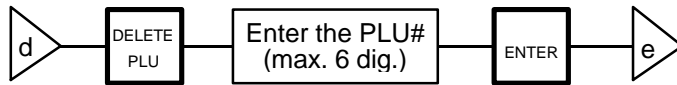
### Memory file sort

The memory file is sorted when a memory full error occurs.

d ▷ → [ ] → [ Y ] — Sorting → ▷ e

[ Any key except Y ] — Not Sorting
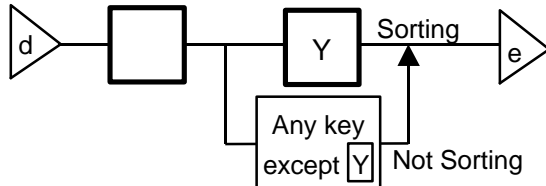
```
Nutrition Facts
Serving Size xxxCUP (xxxxg)
Servings Per Container xxx

Amount Per Serving
Calorier xxxx
Calories from Fat xxxx
XXXXXXXXXXXXXXXXXXXXXX  xxxx          Additional information area 1
               % Daily Value*
Total Fat xxxxg           xxx%
  Saturated Fat xxxxg     xxx%
Cholesterol  xxxxmg       xxx%
Sodium xxxxmg             xxx%
Total Carobohydratexxxxg xxx%
  Dietary Fiber xxxxg     xxx%
  Sugers xxxxg
Protein xxxxg
XXXXXXXXXXXXXXXXXX    XXXXXX          Additional information area 2
XXXXXXXXXXXXXXXXXX    XXXXXX          Additional information area 3
XXXXXXXXXXXXXXXXXX    XXXXXX          Additional information area 4
XXXXXXXXXXXXXXXXXX    XXXXXX          Additional information area 5
XXXXXXXXXXXXXXXXXX    XXXXXX          Additional information area 6

Vitamin A  xxx% Vitamin C    xxx%
Calcium    xxx% Iron         xxx%
XXXXXXXXXX xxx% XXXXXXXXXX    xxx%    Additional information area 7,8
XXXXXXXXXX xxx% XXXXXXXXXX    xxx%    Additional information area 9,10
XXXXXXXXXX xxx% XXXXXXXXXX    xxx%    Additional information area 11,12
*  Percent Daily Values are based on a 2,000
   calorie diet.

1 st  Address - - - - - - - - - - - - - - -
2 nd  Address - - - - - - - - - - - - - - -
```

```
Nutrition Facts
Serving Size 1234567890123
Servings Per Container 223

Amount Per Serving
Calories      3
Calories from Fat        4
               % Daily Value*
Total Fat    5g           8%
  Saturated Fat   6g      30%
Cholesterol     7mg       2%
Sodium  8mg               0%
Total Carbohydrate   9g   3%
  Dietary Fiber 10g       40%
  Sugars   11g
Protein   12g

Vitamin A 13%.Vitamin C 14%
Calcium    15%.Iron       16%
*  Percent Daily Values are based on a 2,000
   calorie diet.




1-00000000000000000000000-1
2-00000000000000000000000-2
```

▨ Area for titles

▨ Area for entry data:  Set in this menu (Nutrition Setting procedure)

▨ Area for data:  Calculated on the basis of the entered data in Menu Page1/Item No.3

# 10.5  PLU VERIFYING LABEL

Menu Page: 1
Item No.:    4

Verifies PLU data stored in the scale.
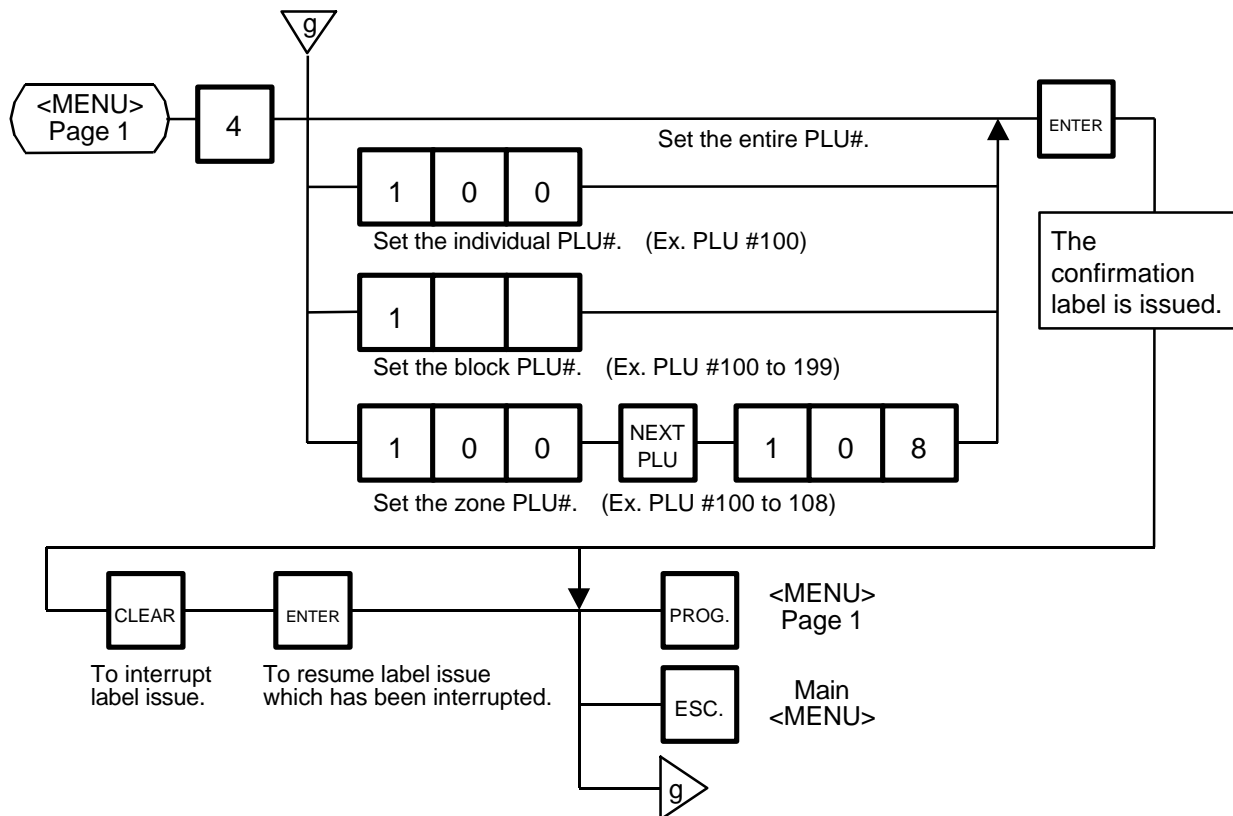


***NOTES:***
*1. Labels are printed in both batch mode and on-demand mode.*
*2. When no PLU is stored in the selected range, an error occurs when the* ENTER *key is pressed.*
*3. Pressing the* CLEAR *key releases the scale from the error mode and returns to the initial status of this menu.*
*4. After clearing a paper jam error, the scale will wait for an entry of PLU# again.*

# 10.6 ADDRESS AND COMMERCIAL MESSAGE SETTING

Menu Page: 1
Item No.:    5

A store address printed on label and a commercial message shown on the display can be set within the following character limits using the procedure below.

Address:    32 characters× 2 lines
Message:    90 characters
Receipt Header:   24 characters in the 1st/2nd line and 48 characters in the 3rd line
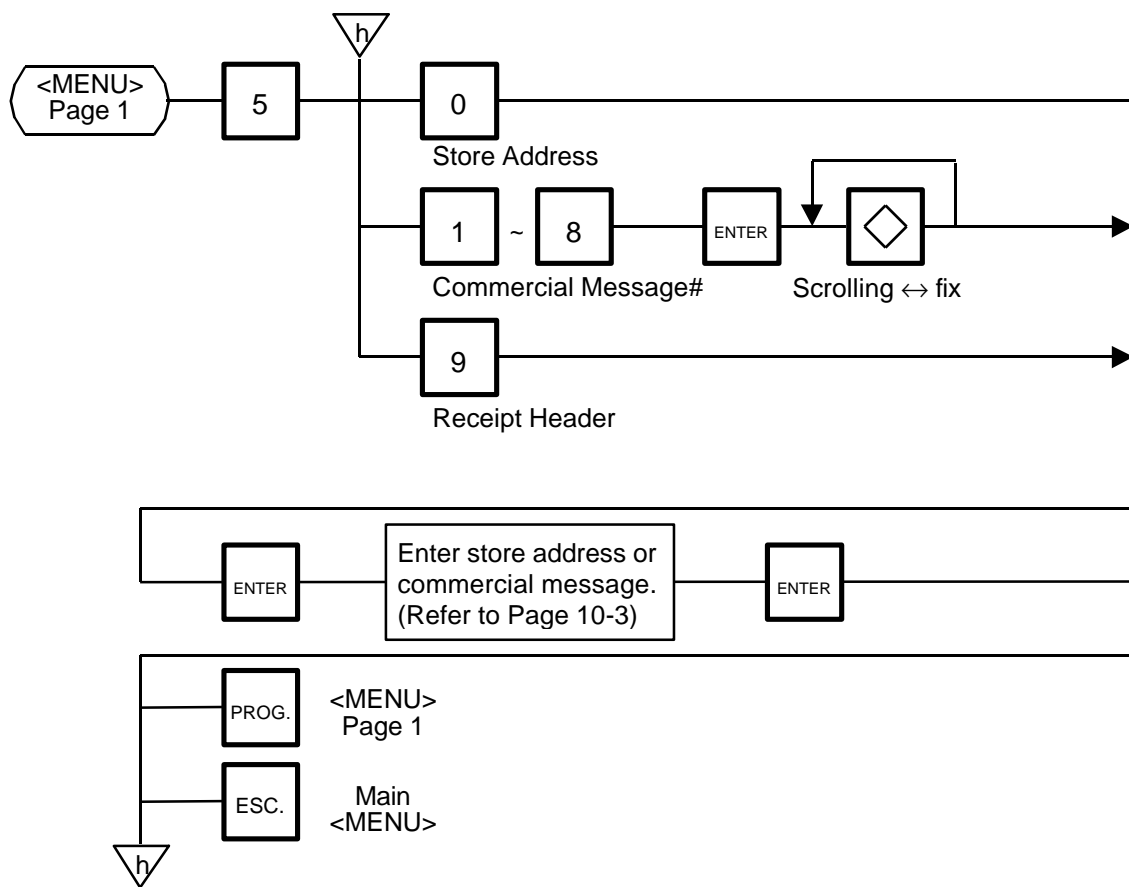


**NOTE:**  *When the fixed message is selected, the first 16 characters will be indicated on the display.*

## 10.7   COMBINATION MESSAGE

Menu Page: 1
Item No.:    6

You can combine some messages set in Section 10.6 together and create a maximum of 24 different combination messages.

*Message construction*

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|
| n | n | n | n | n | n | n | n |

*Message display time:*

*Message display time ranges from 00 to 99 (seconds).   When "00" is entered, no message will be displayed.*

*3rd message:*

*01 to 08:   represents messeages No. 1 to 8*
*11 to 23:   represents logo No. 01 to 13*

*2nd message:*

*01 to 08:   represents message No. 1 to 8*
*90 to 93:    represents display methods*
*90:  Flashing*
*91:  Curtaining*
*92:  Scrolling up*
*93:  Scrolling down*

*1st message:*
*01 to 08:   represents message No. 1 to 8*

> ***NOTE:***   *When the fixed message is selected, set "00" as the 1st and 2nd messages.*
> *Otherwise, set "00" as the 1st message.*
> *When the Flashing, Curtaing, Scrolling up or Scrolling down is selected, set "00" as the 1st message.*
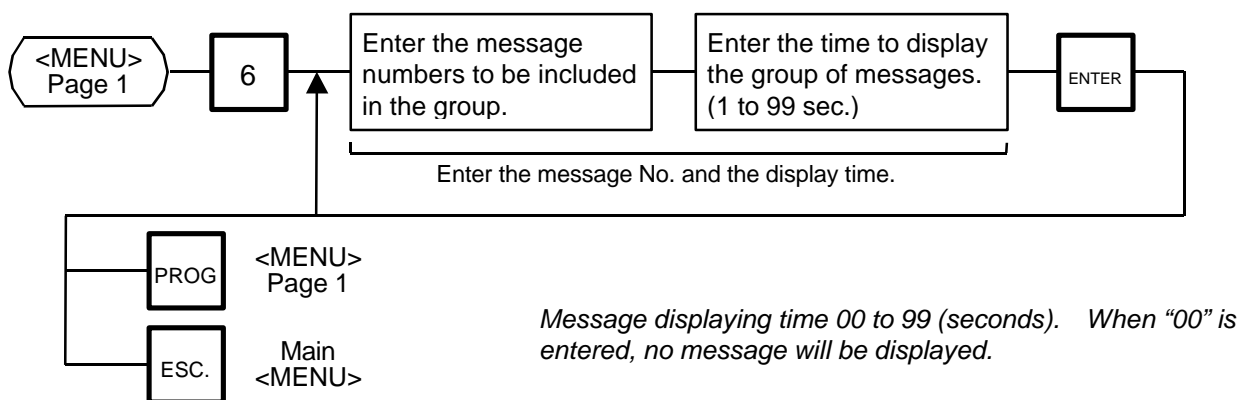


> ***NOTE:***   *The combination No. is selected as follows by* ENTER *key.*
>
> *combi. 1     combi. 2   • • • •    combi. 8*

3. Display method varies depending on message construction.
   1) message combination
      a. single message        either scrolling or fixed is available.
      b. multiple message     scrolled regardless of selection.
   2) logo combination
      Logo must be a single logo and a fixed display. When logos are combined, no message will be displayed.
   3) combination of message and logo
      It is prohibited. When both a message and logo are combined together, only message will be displayed.

4. You can press the ⎢PROG.⎢ and the ⎢ESC.⎢ keys to exit the procedure at any time. However, no data will be stored without pressing the ⎢ENTER⎢ key.

5. Display method
   1) Fixed

   | THANK YOU ! |

   2) Scrolling

   | THANK YOU CALL | → | ANK YOU CALL AGA |

   3) Flashing

   | THANK YOU ! | ↔ | (blank) |

   4) Curtaining

   | (blank) | ↔ | ANK Y | ↔ | THANK YOU ! |

   5) Scrolling up

   | THANK YOU ! | → | THANK YOU ! |

   6) Scrolling down

   | THANK YOU ! | → | THANK YOU ! |
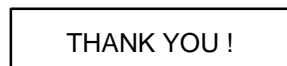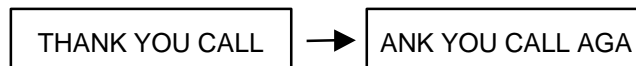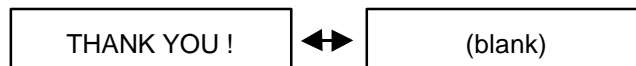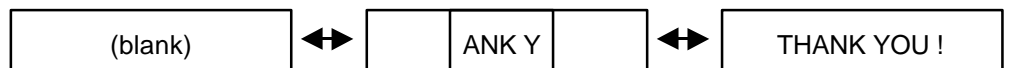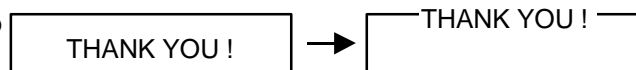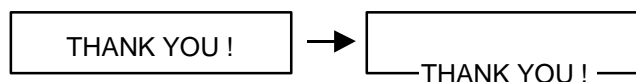
*NOTE:* *The scrolling up/down methods allow displaying 16 characters per line, up to a total of 90 characters per display.*

## 10.8  SPECIAL INFORMATION

Menu Page:   1
Item No.:      7

When the Net Weight Statement label is selected, 3 lines (32 characters/line) of special information can be printed in the label position where the net weight data is to be printed.   The special information can be printed in the weigh and By Count mode.   In the Fix mode, the net weight data is printed.

```
( <MENU>     [ 7 ]    [ENTER]    Enter the special    [ENTER]             [PROG.]   <MENU>
  Page 1 )                       information.                                        Page 1
                                 (Refer to page 10-3.)          [TEST]
                                                                          [ESC.]    Main
                                                                                    <MENU>
```
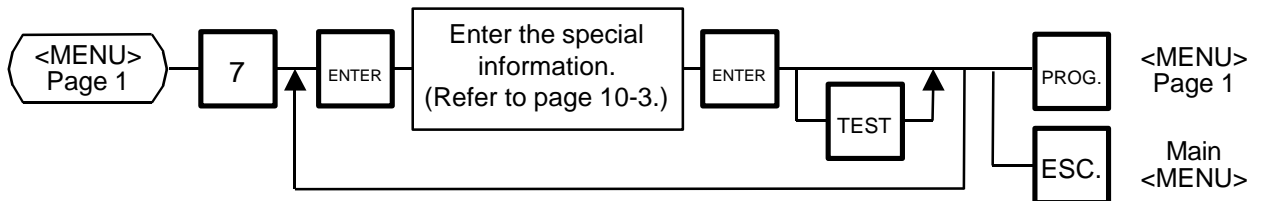
## 10.9  Grade Line

Menu Page:   1
Item No.:      8

You can set the maximum 49 kinds of grade lines (max. 32 characters/line), and call one of them to print on the label.

```
( <MENU>     [ 8 ]    Enter the grade    [ENTER]    Enter characters.    [ENTER]
  Page 1 )            line#. (1 to49)               (max. 32 chars./line)
                                                    (Refer to NOTE 2)

                      [PROG.]   <MENU>
                                Page 1

                      [ESC.]    Main
                                <MENU>
```
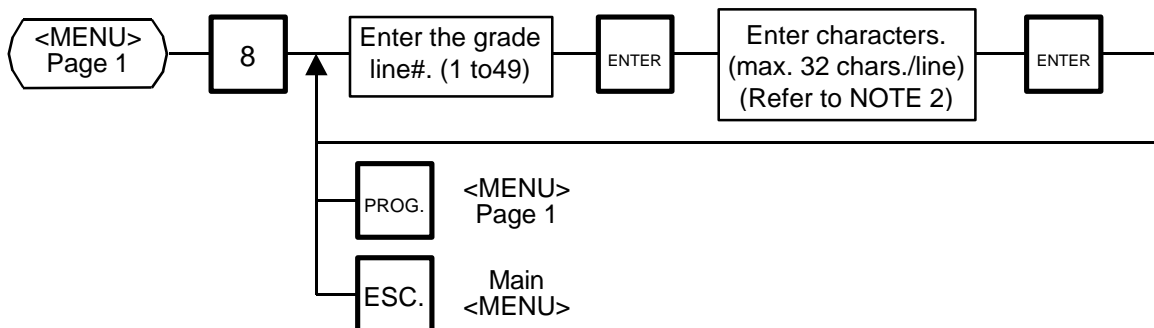
*NOTES:*
*1.  Print position of grade line can be changed by initial setting.*
*2.  Refer to page 10-3, for information regarding how to enter the Grade Line.*

## 10.10  SPEED KEY SETTING

Menu Page: 1
Item No.:     9

The SL-9000 has a maximum of 108× 2 speed keys which are very convenient to call PLUs quickly.
(Refer to page 5-3 regarding the Key Layout.)
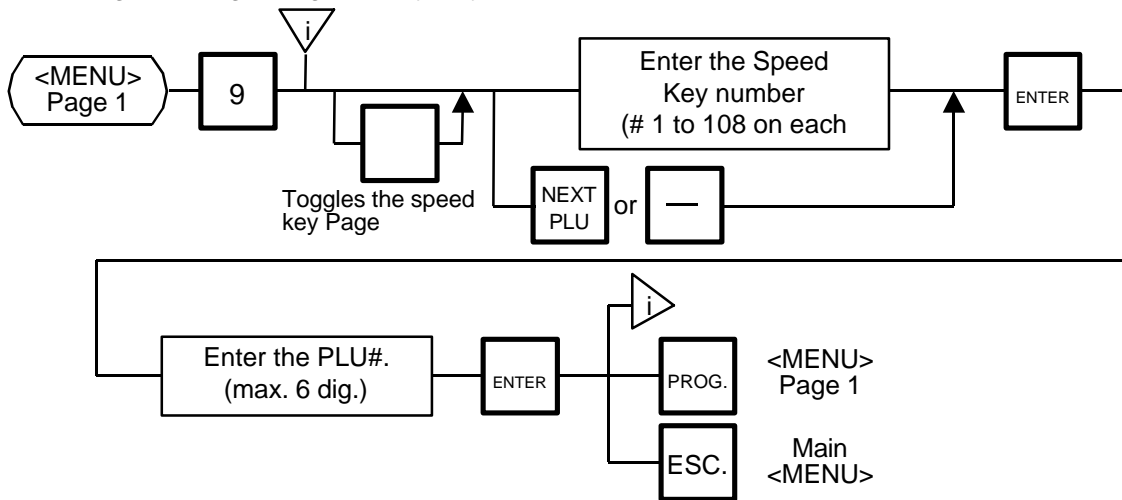


### Setting Department/Vendor Number
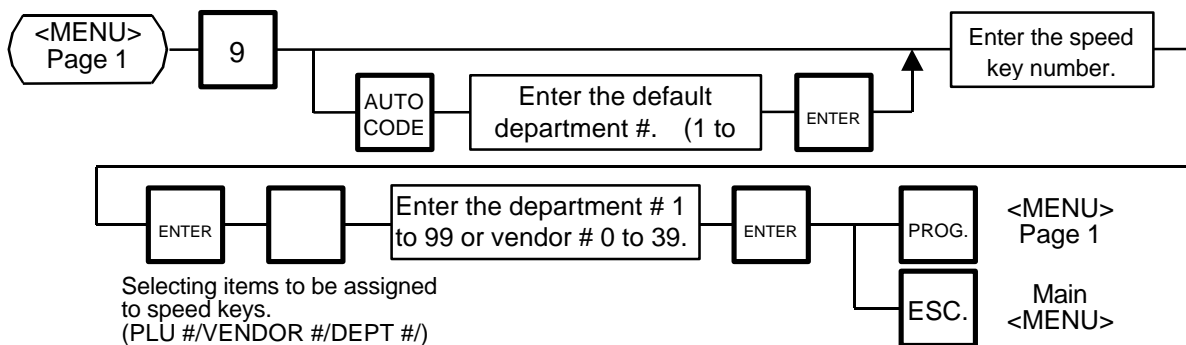


Department Number

When initial set #10-6 is set to "1", the six-digit PLU # is divided into two; the upper two digits are assigned to department #, and the lower four digits to PLU.

The department # is automatically added in the front of the four-digit PLU # and treated as a six-digit PLU #.

In case of "PROG.", "Report", and "Reset" modes, PLU # is treated as a six-digit number. So the upper two digits are not treated as department #. Consequently the four-digit PLU # is available only in "REG.", "M.DOWN", and "REWRAP" modes.

*NOTE: The default Dept No. is a two- digit serial number ranging from o to 99. Entering a "0" clears a Dept. No.*

Vendor Number

Vendor numbers can be be set when the Initial Setting #11-1 is set to 1.

Vendor numbers are assigned to the speed keys in two ways:

Individual vendor number:   00-39

Vendor # is assigned to the speed keys one by one.

Group vendor number:   0-, 1-, 2- and 3-

Maximum 10 vendor numbers can be assigned to one speed key, resulting in 4 speed keys in total. When assigning group vendor numbers to the speed keys, enter the first digit of the vendor key (0, 1, 2 or 3) plus a bar (-).

Vendor numbers can be called whichever half of the speed keys are selected.

## 10.11 PRINT FORMAT

Menu Page: 2
Item No.:    0

The SL-9000 can memorize 5 different print formats.    After print formats are set, you can call them by pressing the print format number.
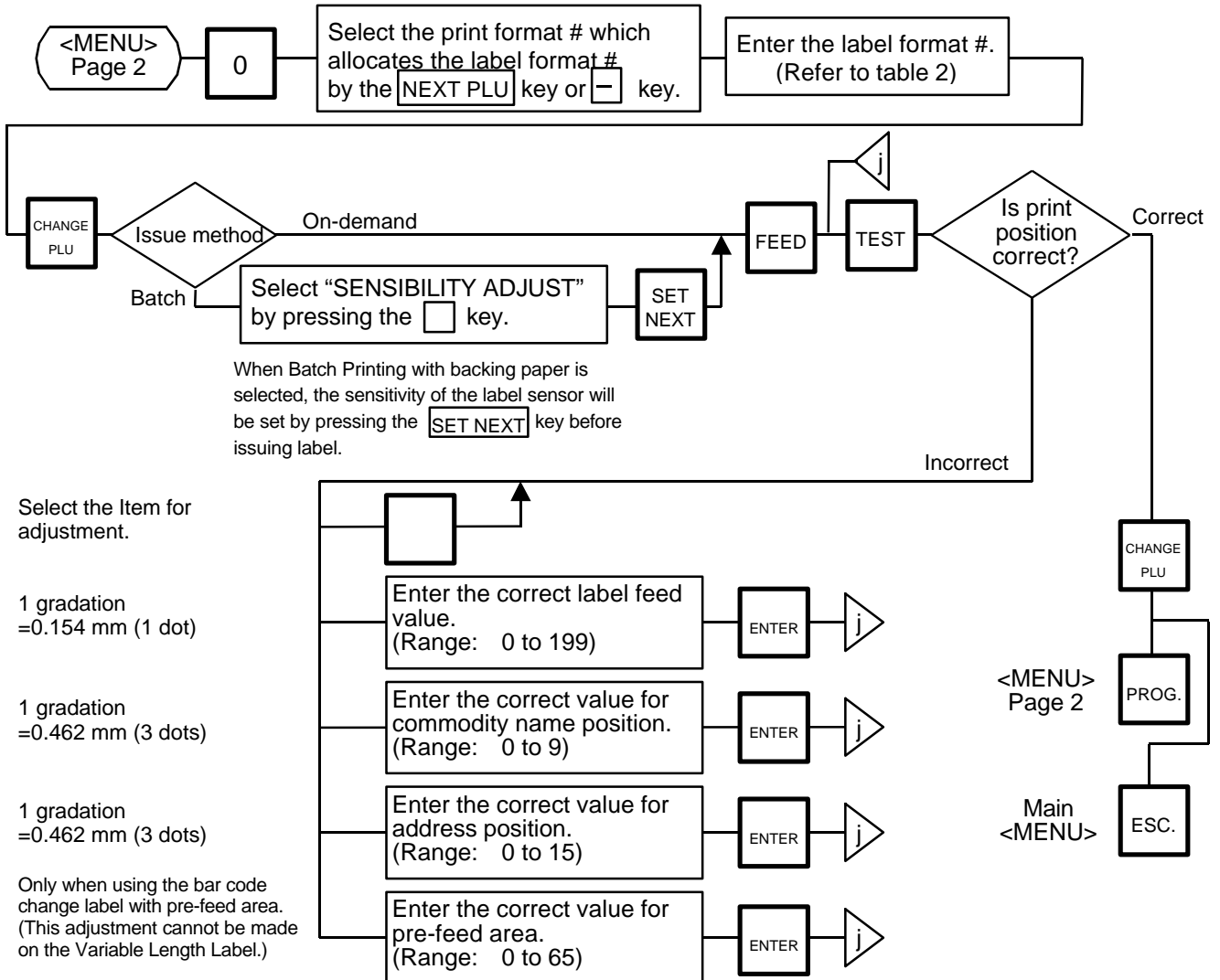


### NOTES:

1. *When a commodity name position is adjusted, an address position will move automatically.*
2. *When entering the other label format #, fine adjust values are initialized.*
3. *Selecting label format numbers other than those provided in Table 2 results in an error.*
4. *When selecting a variable length label format, rectangles are printed instead of print items when test printing.*
5. *Pressing the ☐ key allows you to select a print format number from 1 to 5.*
6. *Be sure to press the SET NEXT key when a label format for batch printing with backing paper is selected.*

## Table 2: Label Format Number Table

Select the format # for the label to be used by referring to the table below.

| Format # | Print format | | | | 48-mm wide label | | | | 57-mm wide label | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Basic form | Ingredient | Commodity | | Length | Nutri. | F.S. | | Length | Nutri. | F.S. |
| 00 (50) | NON POS | 0 | 2 (48mm) lines only | Yes | 30.0 | No | No | No | --- | --- | --- |
| 10 (60) | POS | 0 | 2 (48 mm) / 4 (57 mm) | Yes | 40.0 | No | No | Yes | 49.2 | No | No |
| 11 (61) | | 6 | 2 (48 mm) / 4 (57 mm) | Yes | 54.8 | No | No | Yes | 63.5 | No | No |
| 12 (62) | | 12 | 2 (48 mm) lines only | Yes | 68.8 | No | No | No | --- | --- | --- |
| 13 (63) | | 18 | 2 (48 mm) / 4 (57 mm) | Yes | 82.6 | No | No | Yes | 92.8 | No | No |
| 14 (64) | | 22 | 2 (48 mm) lines only | Yes | 92.0 | No | No | No | --- | --- | --- |
| 15 (65) | | 38 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 138.1 | No | No |
| 16 (66) | | 37 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 138.1 | Yes | No |
| 21 (71) | NET WT. | 6 | 2 (48 mm) / 4 (57 mm) | Yes | 69.9 | No | No | Yes | 85.7 | No | No |
| 22 (72) | | 12 | 2 (48 mm) lines only | Yes | 84.1 | No | No | No | --- | --- | --- |
| 23 (73) | | 18 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 112.7 | No | No |
| 24 (74) | | 22 | 2 (48 mm) lines only | Yes | 106.4 | No | No | No | --- | --- | --- |
| 25 (75) | | 38 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 158.7 | No | No |
| 26 (76) | | 38 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 158.7 | Yes | No |
| 31 (81) | BOTTOM | 6 | 2 (48 mm) / 4 (57 mm) | Yes | 76.2 | No | No | Yes | 96.8 | No | No |
| 32 (82) | BARCODE | 12 | 2 (48 mm) lines only | Yes | 90.5 | No | No | No | --- | --- | --- |
| 33 (83) | | 18 | 2 (48 mm) / 4 (57 mm) | Yes | 104.8 | No | No | Yes | 123.8 | No | No |
| 34 (84) | | 22 | 2 (48 mm) lines only | Yes | 112.7 | No | No | No | --- | --- | --- |
| 35 (85) | | 38 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | 171.4 | No | No |
| 36 (86) | | 22/38 | 2 (48 mm) / 4 (57 mm) | Yes | 112.7 | Yes | No | Yes | 171.4 | Yes | No |
| 41 (91) | FREE FORMAT | | 4 (57 mm) lines only | No | --- | --- | --- | Yes | Free | No | Yes |
| 42 (92) | | | | No | --- | --- | --- | Yes | Free | No | Yes |
| 43 (93) | | | | No | --- | --- | --- | Yes | Free | No | Yes |
| * 44 (94) | FSP | 13 | 2 (57 mm) lines only | No | --- | --- | --- | Yes | 98.4 | No | Yes |
| 48 | VALIABLE | | 2 (48 mm) / 4 (57 mm) | Yes | Variable | Yes | No | Yes | Variable | Yes | Yes |
| 49 | ROTATION | 21 | 4 (57 mm) lines only | No | --- | --- | --- | Yes | Variable | Yes | Yes |

**NOTE:**

*: SL-9000N only

Format No. [0] [0]

- 0: 0 ingredient line
- 1: 6 ingredient lines (Except free format)
- 2: 12 ingredient lines (Except free format)
- 3: 18 ingredient lines (Except free format)
- 4: 22 ingredient lines
- 5: 38 ingredient lines
- 6: Ingredient + Nutrition on white label with symbols
- 7: 960 format
- 8: Variable length
- 9: Variable length + rotation

- 0: NON POS (On demand print)
- 1: POS (On demand print)
- 2: NET WT. Statement (On demand print)
- 3: Bottom barcode (On demand print)
- 4: Other than 0 to 3 (On demand print)
- 5: NON POS (Batch print on labels with back paper)
- 6: POS (Batch print on labels with back paper)
- 7: NET WT. Statement (Batch print on labels with back paper)
- 8: Bottom barcode (Batch print on labels with back paper)
- 9: Other than 5 to 8 (Batch print on labels with back paper)

## 10.12  DATE/TIME SETTING

Menu Page: 2
Item No.:    1

Date, time, machine number, and store code are set with this procedure.
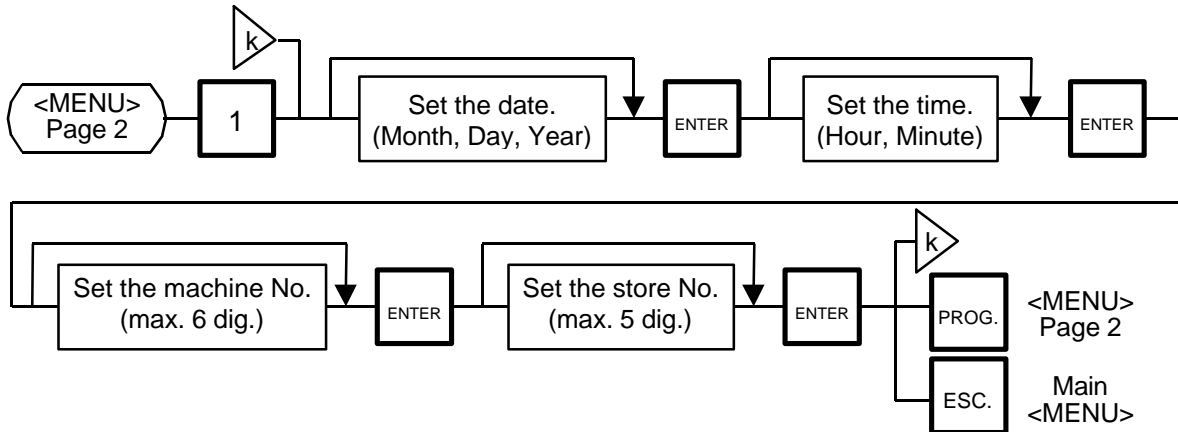


### NOTES:
1. *Express the time in a 24-hour military format.*
2. *The SL-9000 will check details of date (time) input, and any wrong date (time) will result in an error mode.  Then the correct date (time) should be re-entered and press the* CLEAR *key.*
3. *Even when initial Setting# 8-4, 8-5 or 8-6 is set to the " Julian Date" side, the way to enter the date in the date setting operation is the same as in the ordinary case.*
4. *The date display method can be changed by the initial setting.*

## 10.13  CMT/PL-3

Menu Page: 2
Item No.:    2

### CMT Operations
The SL-9000 is designed to interface with a Cassette Magnetic Tape loader.  This loader allows the transfer of the entire PLU file, ingredient file and other data from the SL-9000 to tapes.  This can be accomplished in number of operation steps.
In turn, information from the tape can also be transferred to another SL-9000 scale.
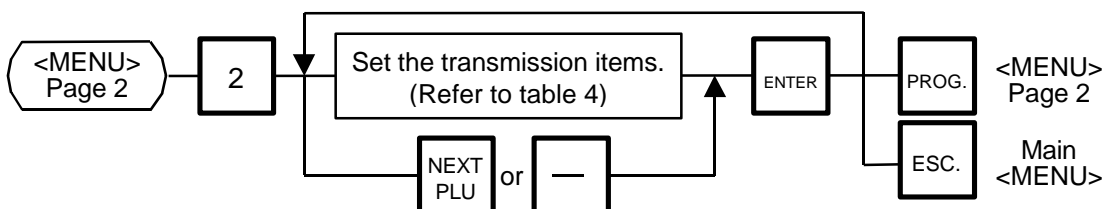


### NOTES:
1. *The error mode can be released by pressing the* CLEAR *key, and operated again through the above steps.*
2. *Use the metal cassette tape which is commercially available and has a capacity of 45 or 60 minutes recording.*
3. *For operations of the CMT loader, refer to the instruction manual provided with the CMT loader.*

### PL-3 Operation

Connect the PL-3 to the SL-9000 by using RS-232C Cable, then turn on the power of the SL-9000 and the PL-3.

Insert a data disc into the PL-3 and adjust the transmission rate to the SL-9000 ( $\boxed{7}\boxed{2}$ :4800 BPS or $\boxed{7}\boxed{3}$ : 2400 BPS) by using the rotary switch.

Press the $\boxed{\text{SAVE}}$ key of the PL-3, then check whether the SAVE LED is on.

Program the file number of the data disc by using the rotary switch.

( $\boxed{4}\boxed{1}$ : File No. 1, $\boxed{4}\boxed{2}$ : File No. 2, ....... $\boxed{4}\boxed{8}$ : File No. 8, $\boxed{4}\boxed{9}$ : File No.9)

```
                                              SAVE
                                               or
<MENU>        2     Set the transmission item.         ENTER    PROG.   <MENU>
Page 2              (Refer to table 4)                                   Page 2
                                              LOAD
                    NEXT                                         ESC.     Main
                    PLU   or   —                                        <MENU>
```
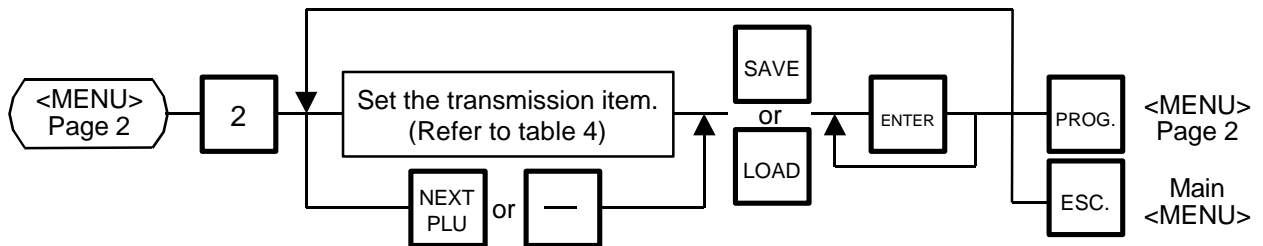
*NOTES:*
1. *Press* $\boxed{\text{SAVE}}$ *or* $\boxed{\text{LOAD}}$ *key on the PL-3.*
2. *In the event Enter Key is not pressed within 10 seconds after* $\boxed{\text{SAVE}}$ *or* $\boxed{\text{LOAD}}$ *key is pressed, the Time Out Error results.*
3. *After pressing the* $\boxed{\text{ENTER}}$ *key, the operation ends when "00" appears in the 7 seg. display and LAMP goes off.  Remove the data disc and turn the power off.*
4. *Be sure to start the PL-3 before the main operation.*

### Table 3:  Error code during PL-3

| Error Code | | Error Message | Error Code | | Error Message |
|---|---|---|---|---|---|
| 1 | 0 | FDC ERROR | 3 | 7 | FRAMING ERROR |
| | 1 | FDK MISINSERTION ERROR | | 8 | PARITY ERROR |
| | 2 | UNAVAILABLE FDK INSERTION ERROR | 7 | 0 | DATA ERROR |
| | | | | 1 | STATUS ERROR |
| | 3 | VOL. LABEL UNMATCH ERROR | | 2 | TIME OUT ERROR |
| | 4 | FDK MEMORY FULL ERROR | | 3 | FDK READ/WRITE ERROR |
| | 5 | WRITE PROTECT ERROR | | F | DESIGNATED SELECT KEY ERROR |
| | 6 | NO SEARCH FILE ERROR | | | |
| 3 | 1 | TIME OUT ERROR | 8 | 0 | RAM READ/WRITE ERROR |
| | 2 | LOAD ERROR | | 1 | ROM CRC ERROR |
| | 3 | FDK ERROR | | 2 | RAM BACK UP BATTERY ERROR |
| | 4 | BUSY STATUS | | 3 | FDC DIAG LEVEL 0 ERROR |
| | 5 | POWER FAIL ERROR | | E | SYSTEM FDK LOADING ERROR |
| | 6 | OVERRUN ERROR | | F | SYSTEM ERROR |

1) When the error code is FF, this system enters stop mode.  (Turn the power off/on for release.)
2) When the error code is F2 or FE, perform the status clear ( $\boxed{9}\boxed{9}$ ).
3) If an error occurs, refer to the PL-3 Owner's Manual and solve the problem.

## Table 4: Transmission Item List

| ITEM # | Title on the Display | | Contents of Transmission | CMT | PL-3 |
|---|---|---|---|---|---|
| 2 | VERIFY PLU & ING. = CMT | 2 | COMPARE PLU & ING. IN OLD FORMAT | | |
| 3 | READ PLU & ING. FM CMT | 3 | READ PLU & ING. IN OLD FORMAT | | |
| 4 | WRITE PLU TO CMT | 4 | SAVE PLU IN NEW FORMAT | | |
| 5 | VERIFY PLU = CMT | 5 | COMPARE PLU IN NEW FORMAT | | |
| 6 | READ PLU FROM CMT | 6 | READ PLU IN NEW FORMAT | | |
| 7 | WRITE ING. TO CMT | 7 | SAVE ING. IN NEW FORMAT | × | |
| 8 | VERIFY ING. = CMT | 8 | COMPARE ING. IN NEW FORMAT | × | |
| 9 | READ ING. FROM CMT | 9 | READ ING. IN NEW FORMAT | × | |
| 10 | WRITE NUTRI. TO CMT | 10 | SAVE NUTRITION IN NEW FORMAT | | |
| 11 | VERIFY NUTRI. = CMT | 11 | COMPARE NUTRITION IN NEW FORMAT | | |
| 12 | READ NUTRI. FM CMT | 12 | READ NUTRITION IN NEW FORMAT | | |
| 13 | WRITE SPEED KEY | 13 | SAVE SPEED KEY IN NEW FORMAT | | |
| 14 | VERIFY SPEED KEY | 14 | COMPARE SPEED KEY IN NEW FORMAT | | |
| 15 | READ SPEED KEY | 15 | READ SPEED KEY IN NEW FORMAT | | |

: operable, × : inoperable

*NOTE:* *When the PL-3 is connected, more than one FDK may be required depending on the amount of ING. data.*
*Be careful of the following when changing a FDK.*
  *a: During the write operation, replace with a formatted FDK.*
  *b: Verify and read data in same order as the write.*
*To cancel to change a FDK, press the* CLEAR *key.*

## 10.14  IN-LINE/LOCAL

Menu Page: 2
Item No.:    3

When the SL-9000 is used as a satellite in an in-line system, the "ID #" and "Transmission delay time" can be set by the following procedure.
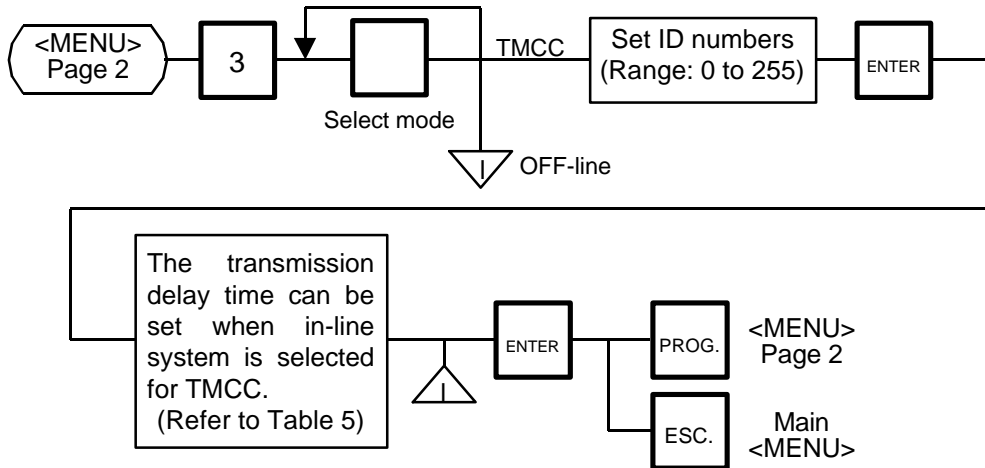


***NOTES:***
*1. The TMCC baud rate is fixed to 4800 BPS.*
*2. After setting the ID #, turn the power switch OFF and ON again.*
*3. This setting is not available in case that the Initial setting #13-6 is set to 1 (LAN: allowed).*

### Table 5:  Transmission Delay Time Table

|   | TR-Time   (ms) |   | TR-Time   (ms) |
|---|---|---|---|
| 1 | 20 to 39 | 6 | 120 to 139 |
| 2 | 40 to 59 | 7 | 140 to 159 |
| 3 | 60 to 79 | 8 | 160 to 179 |
| 4 | 80 to 99 | 9 | 180 to 199 |
| 5 | 100 to 119 |   |   |

The default is 3.

## 10.15  LON SYSTEM

Menu Page: 2
Item No.:    4

The SL-9000 scales which consists of a master, satellites, and a backup master are connected each other by the LON cable to transmit data such as PLU, ING., NUTRI, etc.

ID# 1 is reserved for the master terminal.
ID# 2 is reserved for the backup master terminal or satellite terminal.
ID# 3 to 32 are for satellite terminals.

Setting numbers other than the above results in an error.
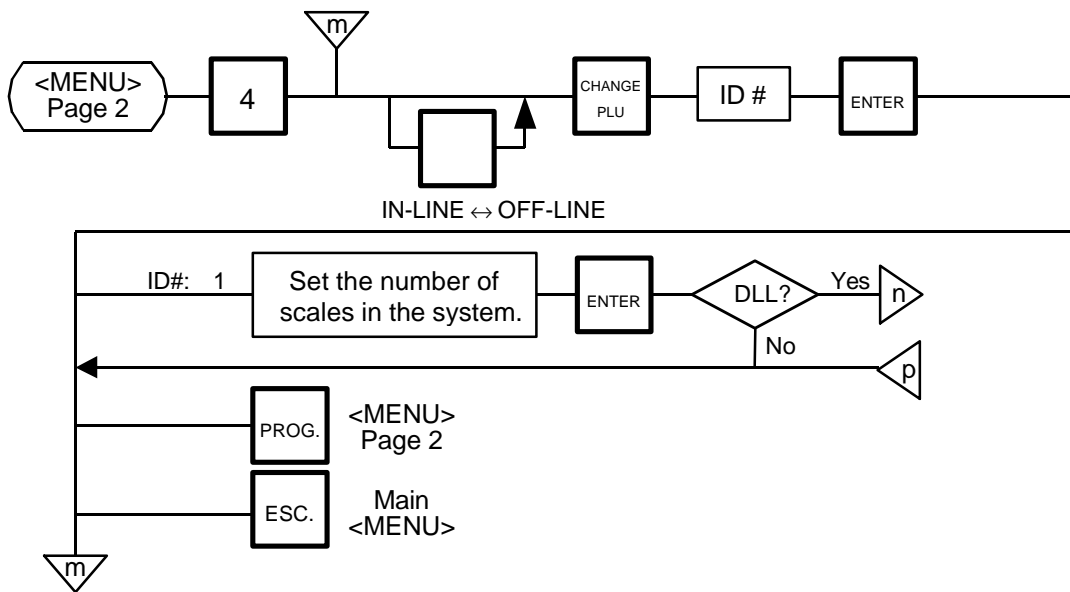


*NOTES:*
1. *Before starting the above procedure, press the* ⬦ *key and enter IN-LINE mode.*
2. *When installing the backup master terminal, set the master scale's initial status of #9-1 to 1.*
3. *Set ID # to all scales connected by LON cable.*
4. *When the display power is turned on, a satellite terminal is ready to receive data from the master terminal.*
5. *After setting the ID #, turn the powe*r switch OFF and ON again.

## Data Transmission

The following data is down-line-loaded.

Page 1: (0). All (PLU+ING+NUTRI)       Page 2: (0). SPEED KEY
      (1). PLU                                      (1). LOGO
      (2). ING.                                     (2). VENDOR
      (3). NUTRITION                                (3). FREE FORMAT
      (4). U. PRICE                                 (4). ADDRESS (SL-9000N only)
      (5). DATE/TIME                                (5). INITIAL (#0-19, SL-9000N only)
      (6). MESSAGE LINK (Message)                   (9). CHANGE PAGE
      (7). LOCK SCALE (Check the LON cable)
      (8). OPEN SCALE (Release the lock after checking the LON cable.)
      (9). CHANGE PAGE
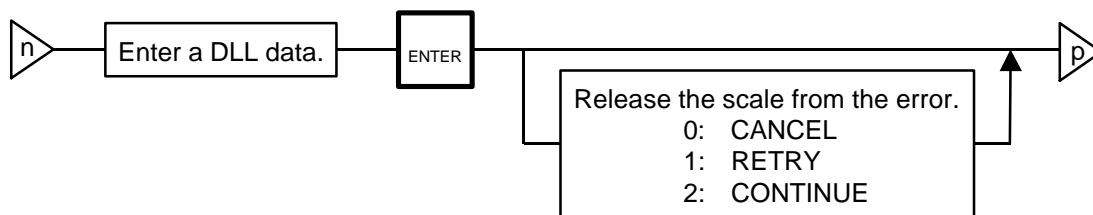


**NOTE:** *DLL is performed automatically in the following two ways.  It is selectable by the Initial Settings #0-6 and #0-7.*

    *(1) LOCK SCALE method*
        *Step 1: "LOCK SCALE" is sent. (\*1)*
        *Step 2: Selected data is sent.          (\*2)*
        *Step 3: "OPEN SCALE" is sent.*
               *\*1: If an error occurs during step 1, the error terminal ID# is indicated. Select "cancel", "retry" or "continue" to release the terminal from an error.*
                    *cancel:  Quits the operation after sending "OPEN SCALE"*
                    *retry:     Tries to send "LOCK SCALE" again.*
                    *continue: Ignores the error terminal and starts DLL.*
             *\*2: If an error occurs during step 2, the error terminal ID# is indicated. Press the* CLEAR *key to return to the DLL data selection menu.*
    *(2) Background DLL*
        *Step 1: Selected data is sent.          (\*3)*
             *\*3: If an error occurs, the error terminal ID# is indicated.   Press the* CLEAR *key to return to the DLL data selection menu.*

## 10.16  BAR CODE FORMAT

Menu Page: 2
Item No.:   6

With the SL-9000 scale, four kinds of bar code formats are available.   These formats can be changed freely.

**Example)**

Current format

| 2 | 9 | C1 | C2 | C3 | C4 | C5 | C6 | P2 | P3 | P4 | P5 | C/D |
|---|---|----|----|----|----|----|----|----|----|----|----|-----|

Flag — UPC # — Price — Total check digit

Changed format

| 0 | 2 | C2 | C3 | C4 | C5 | C6 | PC/D | P1 | P2 | P3 | P4 | C/D |
|---|---|----|----|----|----|----|------|----|----|----|----|-----|

Flag — UPC # — Price check digit or weight check digit. — Total check digit
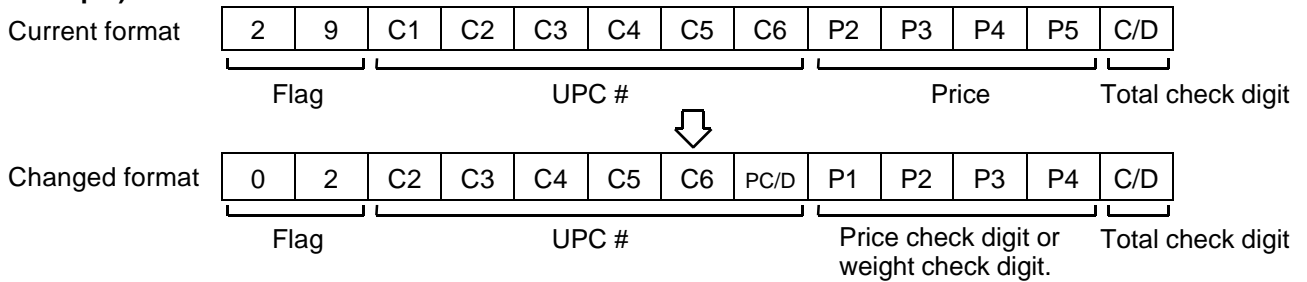
When changing the above example format into the weigh format described in NOTE 1, use the following procedure.
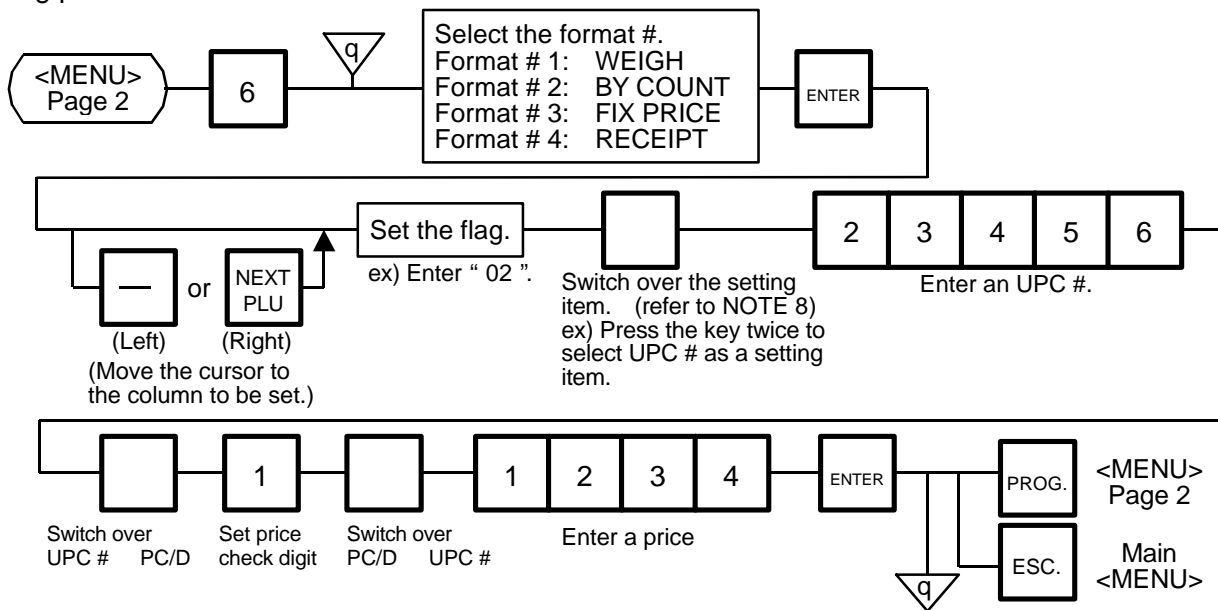


*NOTES:*

*1. In this printer, the previously set bar code format is initialized to the following default by RAM clear.*
   **Default Bar Code Format:**

Weigh or Fix Price Format

| 0 | 2 | C2 | C3 | C4 | C5 | C6 | PC/D | P1 | P2 | P3 | P4 | C/D |
|---|---|----|----|----|----|----|------|----|----|----|----|-----|

By Count Format

| 0 | 0 | 0 | C2 | C3 | C4 | C5 | 0 | 0 | 0 | 0 | C6 | C/D |
|---|---|---|----|----|----|----|---|---|---|---|----|-----|

Receipt Format

| 0 | 2 | 0 | 0 | 0 | 0 | PC/D | P1 | P2 | P3 | P4 | P5 | C/D |
|---|---|---|---|---|---|------|----|----|----|----|----|-----|

2. When the ENTER key is pressed, bar code format is checked.   An error occurs
   in the following cases.
   Check digit (C/D) is at other than digit-13.
   Price check digit (PC/D) cannot be calculated.   (Price is other than 4 or 5
   digits.)
   Price is not set serially beginning from P1 (P1 to P4, or P1 to P5).
   Weight is not set serially beginning from W1 (W1 to W5).

3. The usable keys to set the column are as follows:

| | |
|---|---|
| FLAG | [0] to [9] |
| PLU # | [1] to [6] |
| UPC # | [1] to [6] |
| PC/D | [1] |
| PRICE | [1] to [6] |
| WEIGHT | [1] to [6] |
| C/D | [1] |

4. Digits and display of PLU #

PLU #        1 2 3 4 5 6
            ▼ ▼ ▼ ▼ ▼ ▼
            H H H H H H
Display      1 2 3 4 5 6

5. Digits and display of UPC #

UPC #         1 2 3 4 5 6
             ▼ ▼ ▼ ▼ ▼ ▼
             C C C C C C
Display       1 2 3 4 5 6

6. Digits and display of price

Price        $ 1 2 . 3 4
             ▼ ▼   ▼ ▼
             P P   P P
Display       1 2   3 4

Price        $ 1 2 3 . 4 5
             ▼ ▼ ▼   ▼ ▼
             P P P   P P
Display       1 2 3   4 5
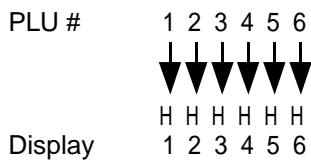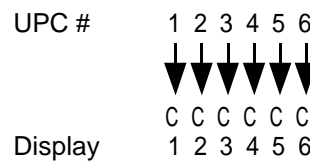
7. Display of weight Digits

Weight     1 2 . 3 4 5  lb
           ▼ ▼   ▼ ▼ ▼
           W W   W W W
Display    1 2   3 4 5

Weight     1 2 . 3 4 5  Kg
           ▼ ▼   ▼ ▼ ▼
           W W   W W W
Display    1 2   3 4 5

8. Setting Items

```
         1            2            3            4
    ┌─► Flag ──────► PLU # ──────► UPC # ──────► PC/D ──┐
    │                                                   │
    └── C/D ◄──────── Weight ◄──────── Price ◄──────────┘
         7               6               5
```
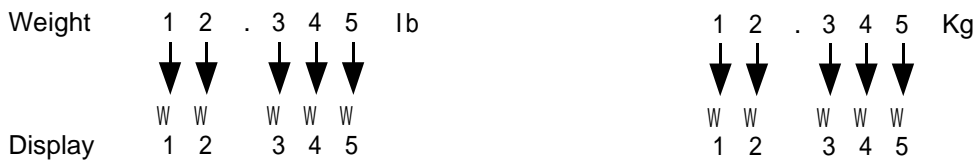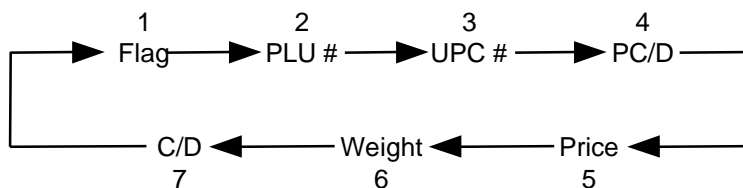
## 10.17 TITLES

Menu Page: 2
Item No.: 7

You can register and change displayed/printed titles of the additional information area for nutrition facts using the following procedure. Registered or changed titles are stored in the RAM. When ALL clear or RAM clear is executed, these titles will be cleared and the initial titles will resume. Before starting this operation, set the initial setting #7-3 to 1.
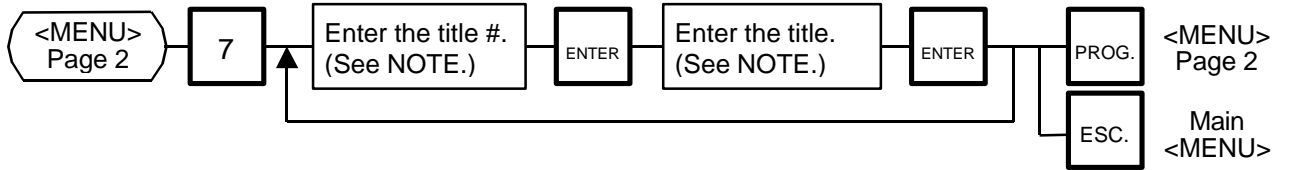
*NOTE: Title No. and format of the additional information area*

| Item | Title No. | Format |
|---|---|---|
| Additional 1 | 221 | Max. 22-character title |
| Additional 2 | 231 | :mg or g / Max. 19-character title |
| Additional 3 | 232 | |
| Additional 4 | 233 | |
| Additional 5 | 234 | |
| Additional 6 | 235 | |
| Additional 7,8 | 238 | Max. 10 character title / Max. 10 character title / Space (Two different titles can be set in one area) |
| Additional 9,10 | 239 | |
| Additional 11,12 | 240 | |

## 10.18  TRANSFERRING LOGO DATA

Menu Page: 2
Item No.:    8

Logo data is created on a PC and stored into RAM through the CMT interface.   Two different sizes of logos, 320x118 dots and 256x64 dots, are available on the SL-9000 series.   64 KB of RAM area is secured for logo data, in which the maximum of 13 logos (320x118 dots) or 26 logos (256x64 dots) can be stored.
Before starting the following operation, set the initial setting #10-7 to 1.
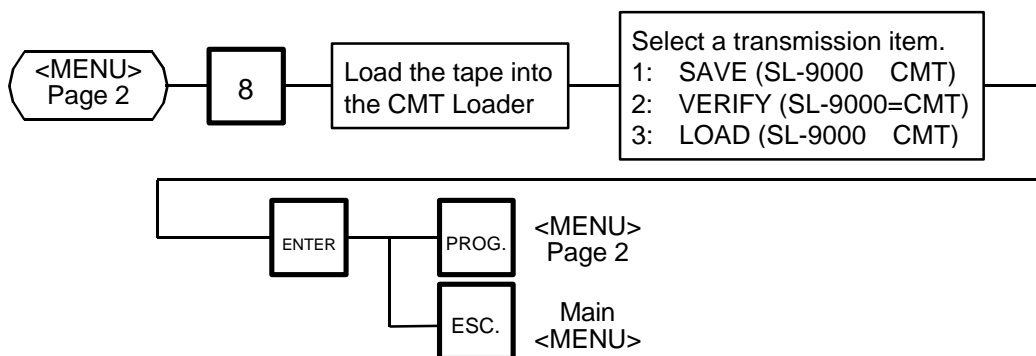


*NOTE:*  *Two sizes of logos are printed differently as follows:*



: Logo data

: Print/Display area
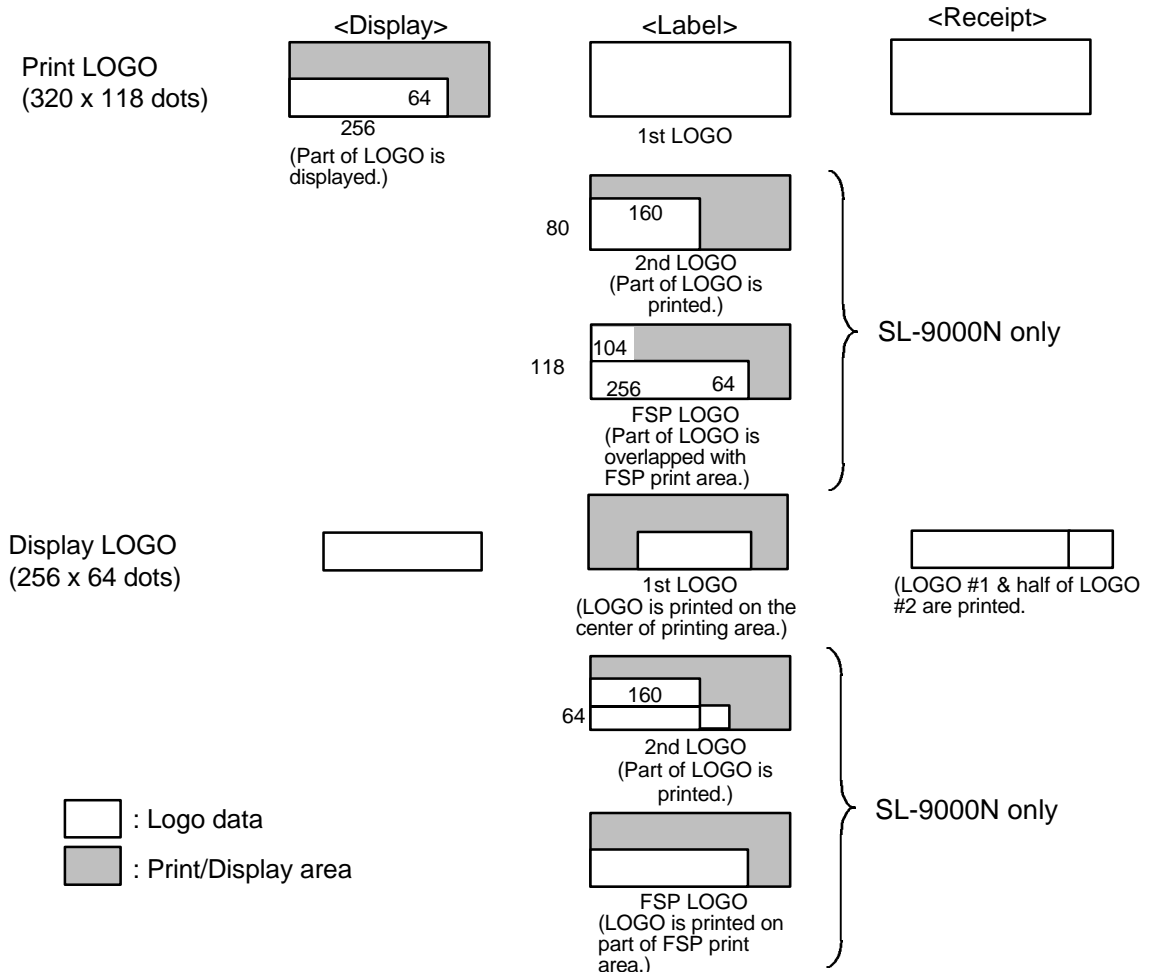
**Table 6: Error message during data transmission**

| Error message | Cause | Error position | |
|---|---|---|---|
| | | Header text | Data text |
| DATA ERROR | Timeout | | |
| | Incorrect segment | | |
| | Incorrect logo size | | |
| | Incorrect number of logos | | |
| | Incorrect logo number | | |
| | Incorrect number of dots to be printed. | | |
| | Parity error | | |
| | Framing error | | |
| | Overrun error | | |

## 10.19 IDIOM SETTING

Menu Page: 2
Item No.: 9

Up to 50 terms frequently appearing in ingredient messages can be preset using the following procedure. The idiom number must be set from 1 to 50 in order. One idiom can contain a maximum of 20 characters.
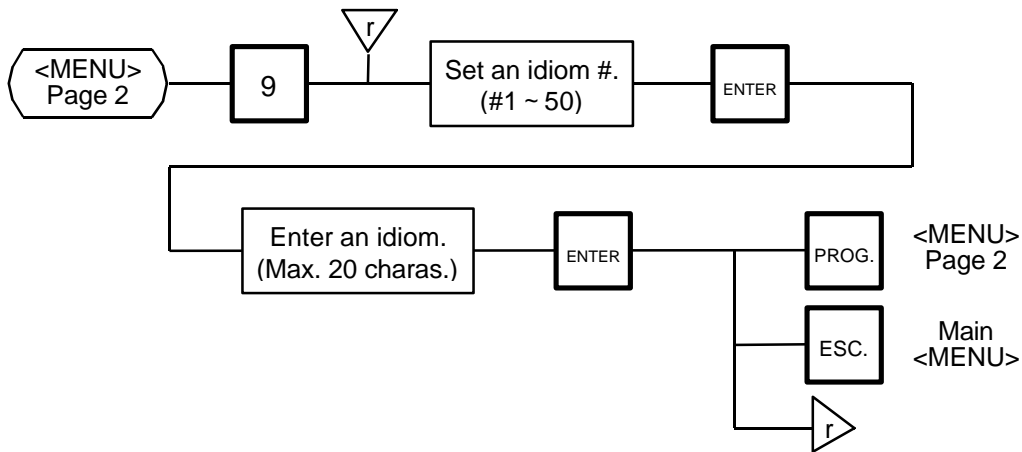
## 10.20  VENDOR SETTING

Menu Page: 3
Item No.:    0

Up to 40 vendors can be registered using the following procedure.   The vendor number must be set from 0 to 39 in order.   One vendor name can contain a maximum of 12 characters.
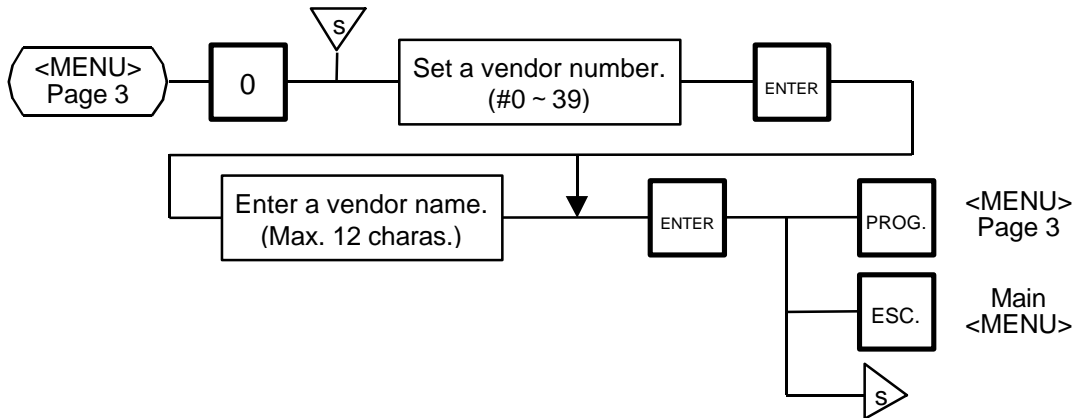


**Deleting a vendor number**
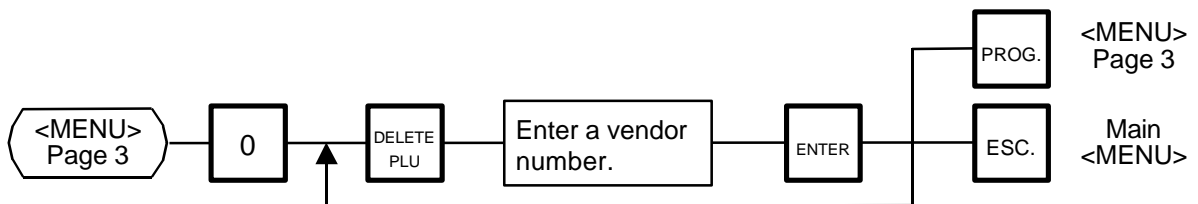
## 10.21  FREE FORMAT SETTING

Menu Page: 3
Item No.:    1

When using 57-mm wide labels, up to three print formats can be changed freely.   Moreover, characters can be rotated and magnified, and print items are selectable.
Enter the coordinate of each print item's lower left corner using the lower left corner of a label as the origin.   When a print item is located beyond the label width, an error will occur.
**Key functions**

|  | : | Moves downward (Data is stored.) |
| ENTER | : | Moves downward (Data is stored.) |
|  | : | Moves upward (Data is stored.) |
|  | : | Moves to the right |
|  | : | Moves to the left |
|  | : | Selects a setting |

a. ROT (Rotation)  :   0° → 90° → 180° → 270°

b. MAG (Magnification)  :  → 0: normal
  1: × 2   (width)
  2: × 2   (height)
  3: × 4   (width: × 2, height: × 2)

c. PRT (Print)  :   ON ◄► OFF

*NOTES:*

*1. The following print items cannot be magnified.*
   *(1) LOGOs*
   *(2) Safe handling precautions*
   *(3) Ingredient messages*
   *(4) Barcode*
   *(5) FSP block (SL-9000N only)*

*2. Base label format numeric data is shown automatically.*
   *X coordinate:      0-383 dots    (1 dot = 0.132 mm)*
   *Y coordinate:      0-1300 dots    (1 dot = 0.154 mm)*
   *Format data beyond the effective print area results in an error.*

*3. Each format data must be set in the following range:*
   *Free Format#s (FREE FMT#): 1-3 (Free format#s 1-3 correspond to the label format #41-43 or*
                       *#91-93.)*
   *Base label format (BASE LBL#):    57-mm wide label*
   *On-demand: 10, 11, 13, 15, 16, 21, 23, 25, 26, 31, 33, 35, 36 and 44*
   *Length:    30-200 mm*
   *Number of ingredient message lines:    0-38 lines*
   *Bar code height:    0-39 mm*

*4. Each print item should be printed in the following range.*

| No. | Print Item | Print area size | | | | Note |
| | | Normal | | Rotation | | |
| | | X | Y | X | Y | |
|---|---|---|---|---|---|---|
| 1 | Commodity name (4 line) | 384 | 94 | 94 | 416 | |
| 2 | Ingredient | 384 | *1 | *1 | 438 | *1. Line count × 15 dots |
| 3 | Packed ON | 84 | 20 | 20 | 92 | |
| 4 | Packed ON (title) | 70 | 13 | 13 | 78 | |
| 5 | Sell BY | 84 | 20 | 20 | 92 | |
| 6 | Sell BY (title) | 70 | 13 | 13 | 78 | |
| 7 | Weight | 106 | 20 | 20 | 112 | |
| 8 | Weight (title) | 105 | 13 | 13 | 112 | |
| 9 | Unit price | 140 | 20 | 20 | 147 | |
| 10 | Unit price (title) | 105 | 13 | 13 | 112 | |
| 11 | Price | 138 | 32 | 32 | 147 | |
| 12 | Price (title) | 105 | 13 | 13 | 112 | |
| 13 | Barcode | 212 | *2 | ---- | ---- | *2. Height/0.154 (dot) |
| 14 | Mark (M/R) | 12 | 20 | 20 | 12 | |
| 15 | Tare | 100 | 20 | 20 | 107 | |
| 16 | Tare (title) | 34 | 13 | 13 | 38 | |
| 17 | SP-INFO/NET WT | 384 | 48 | 48 | 416 | |
| 18 | Relish | 84 | 20 | 20 | 92 | |
| 19 | Relish (title) | 232 | 14 | 14 | 252 | |
| 20 | LOGO | 320 | 118 | ---- | ---- | |
| 21 | Safe Handling | 384 | 194 | ---- | ---- | |
| 22 | Address | 384 | 32 | 32 | 416 | |
| 23 | (F) Price | 138 | 32 | 32 | 146 | |
| 24 | (F) Price (title) | 105 | 13 | 13 | 120 | |
| 25 | (F) Unit price | 140 | 20 | 20 | 147 | |

| No. | Print Item | Print area size | | | | Note |
| | | Normal | | Rotation | | |
| | | X | Y | X | Y | |
|---|---|---|---|---|---|---|
| 26 | (F) Unit price (title) | 105 | 13 | 13 | 120 | |
| 27 | (F) Weight | 106 | 20 | 20 | 112 | |
| 28 | (F) Weight (title) | 105 | 13 | 13 | 120 | |
| 29 | (F) Price | 138 | 32 | 32 | 146 | |
| 30 | (F) Price (title) | 105 | 13 | 13 | 120 | |
| 31 | (L) LOGO | 320 | 118 | ---- | ---- | |
| 32 | FSP block (SL-9000N only) | 384 | 184 | ---- | ---- | |
| 33 | LOGO 2 (SL-9000N only) | 160 | 80 | ---- | ---- | |

When setting the print item positions (X and Y), an error will occur in the following cases.

Entered "X" point + Print size "X" > 384 dots.
Entered "Y" point + Print size "Y" > 1300 mm
Magnified print items become double in size.

5. *The following items cannot be rotated.*
   *LOGO*
   *Safe handling precautions*
   *Bar codes*
   *LOGO (FREQUENT SHOPPER)*
   *FSP Block (SL-9000N only)*
   *LOGO 2 (SL-9000N only)*

6. *When pressing the* **[TEST] key**, *the printer issues a test label.*

7. *Rotated data will be printed so that the lower left corner is positioned at the designated coordinate.*
   *(1) 0°*　　　　　*(2) 90°*　　　　　*(3) 180°*　　　　　*(4) 270°*
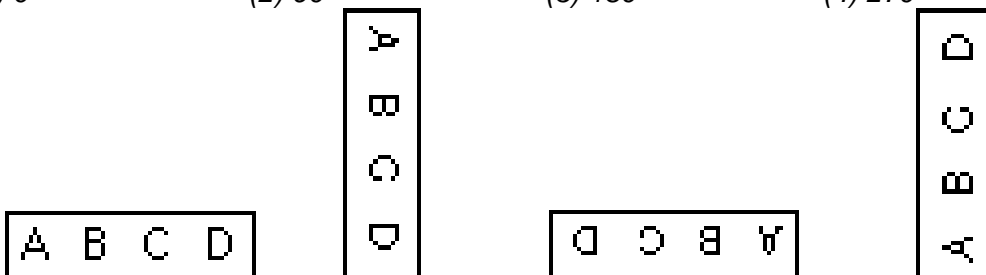


*The points indicated by the arrows are the designated coordinates.*

*8. Print coordinate*
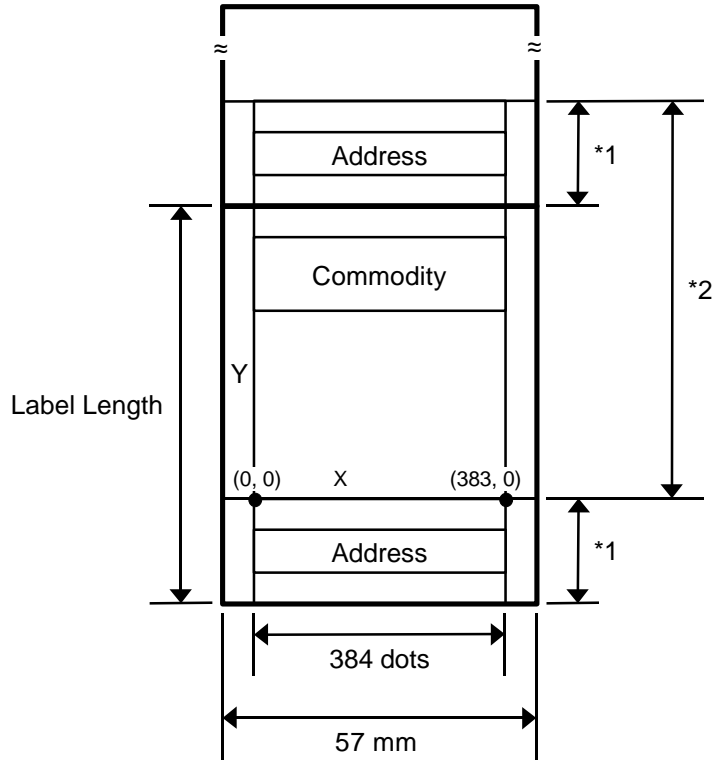
*1 Addresses are printed together with the previous label's data.   To print addresses, use normal labels.
POS (Format #10-16):   10.0 mm
NET (Format #21-26):   10.0 mm
Bar code (Format #31-35):   8.5 mm

*2 Free format area

# 11. PROGRAMMED DATA VERIFICATION REPORTS

The programmed data can be printed on journal paper.    Before issuing these reports, load the journal paper.    The programmed data verification reports cannot be issued with any label.    The keys to be used in the following procedures are those on the numeric key pad, which is right side of keyboard in the figure on page 5-3, but not on the programming keyboard.

### How to access REPORT menu

Press the | ESC. | key to access th following display.    Enter "5", and the scale will enter the REPORT menu.    If the REPORT menu is protected, enter "5" and a password.    (Refer to section 12)

```
<Menu>
0. PROG.              5. REPORT
1. REG                6. RESET
2. MARK DOWN          7.
3. REWRAP             8.
4. SECURITY           9.
```

**Menu :  REPORT**



Press:

Set the table menu #.

PLU programmed data — 5 0 → u

(See the next page)

Commodity description — 5 1 → u

Speed key programmed data — 5 2

Commodity and ingredient description — 5 3 → u

Grade lines — 5 4

Vendor name — 5 5

Idiom — 5 6

v

PRT *
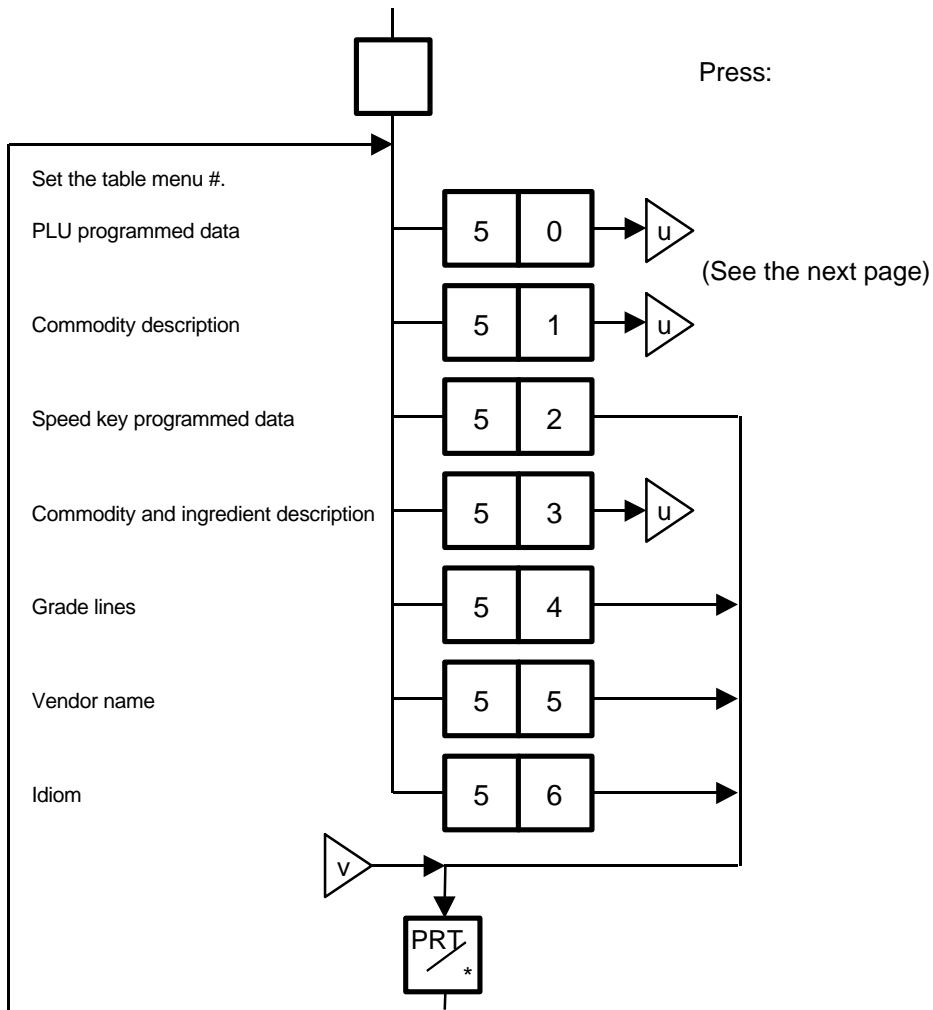
## Table 7

| Menu # | Report Name | Contents |
|---|---|---|
| 50 | PLU programmed data report | All the preset PLU data are listed in the PLU # order (from small to large #). |
| 51 | Commodity description report | All the preset commodity names are listed in the PLU # order (from small to large #). |
| 52 | Speed key programmed data report | The PLU # and the commodity name preset on each speed key is listed. |
| 53 | Commodity and ingredient description report | All the presets commodity names and ingredient messages are listed in the PLU # order (from small to large #). |
| 54 | Grade line report | All the preset grade line contents are listed. |
| 55 | Vendor name report | All preset vendor names are listed. |
| 56 | Idiom report | All preset idioms are listed. |

Set the data range of each programmed data verification report
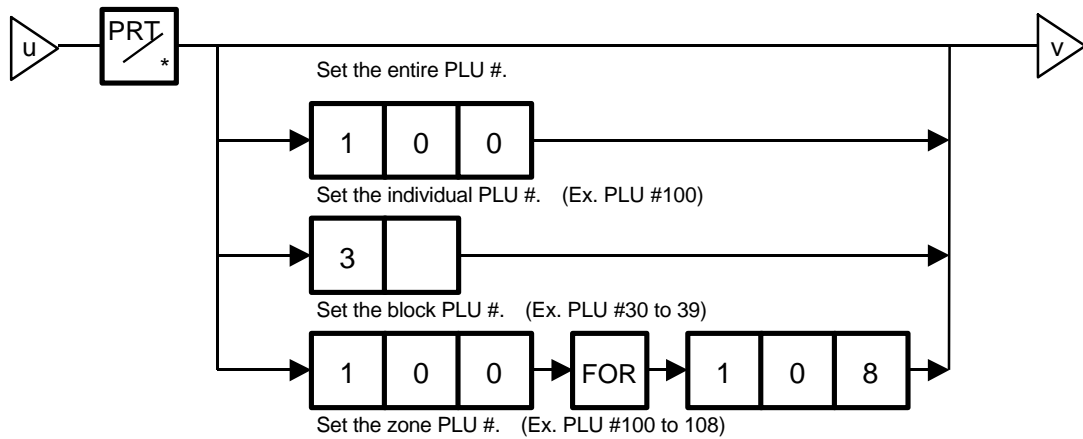
# 12. PASSWORD SECURITY

You can protect all menus (except REG. menu) and set two step passwords for access to protected menus.

## 12.1 SETTING PASSWORD AND PROTECT MENU

```
<Menu>
0. PROG.              5. REPORT
1. REG.               6. RESET
2. MARK DOWN          7.
3. REWRAP             8.
4. SECURITY           9.
```

ESC.

4

w
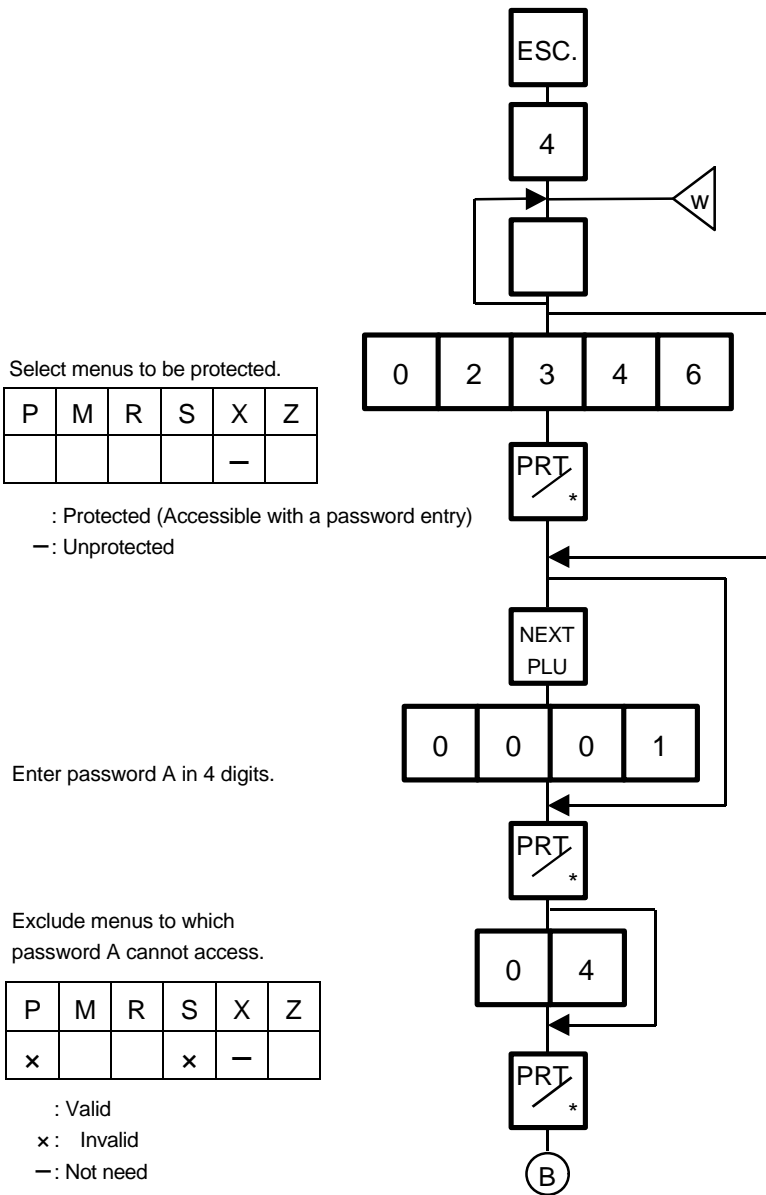
The following numeric keys represents each menu. Enter the following numbers when selecting menus to be protected. Note that REG. menu (1) cannot be protected.

Select menus to be protected.

| P | M | R | S | X | Z |
|---|---|---|---|---|---|
|   |   |   |   |   |   |

: Protected (Accessible with a password entry)

: Unprotected

0 2 3 4 6

PRT *

NEXT PLU

0 0 0 1

Enter password A in 4 digits.

| 0 | : P (PROG. Menu) |
| 2 | : M (M.DOWN Menu) |
| 3 | : R (REWRAP Menu) |
| 4 | : S (SECURITY Menu) |
| 5 | : X (REPORT Menu) |
| 6 | : Z (RESET Menu) |

PRT *

Exclude menus to which password A cannot access.

| P | M | R | S | X | Z |
|---|---|---|---|---|---|
| × |   |   | × |   |   |

: Valid

× : Invalid

: Not need

0 4

PRT *

(B)

12- 1

Enter password B in 4 digits.

Exclude menus to which
password B cannot access.

| P | M | R | S | X | Z |
|---|---|---|---|---|---|
|   | × |   |   |   | × |

   : Valid
× :   Invalid
   : Not need

Ⓑ

| 1 | 2 | 3 | 4 |

PRT
  *

| 2 | 6 |

PRT
  *

ESC.

▷ w

### NOTES:
1. Select validity of the password by pressing the ⬜ key
2. When the same password is entered for password A and B, password A has priority over the password B.
3. Be careful if you exclude the same menu from the accessible menus with both password A and B, you will not be able access the menu.

## 12.2 CALLING MENU BY ENTERING PASSWORD

ESC.

```
<Menu>
0. PROG.          5. REPORT
1. REG.           6. RESET
2. MARK DOWN      7.
3. REWRAP         8.
4. SECURITY       9.
```

Enter a menu No.
0 to 6

Accessible with the password

Accessible without
the password

1   (REG.)

0 , 2 to 6

Not protect menu

Protect menu

C    Enter the 4-digit Password.

ESC.

PRT
*

Password NG

Password OK

Accessible menu with the password
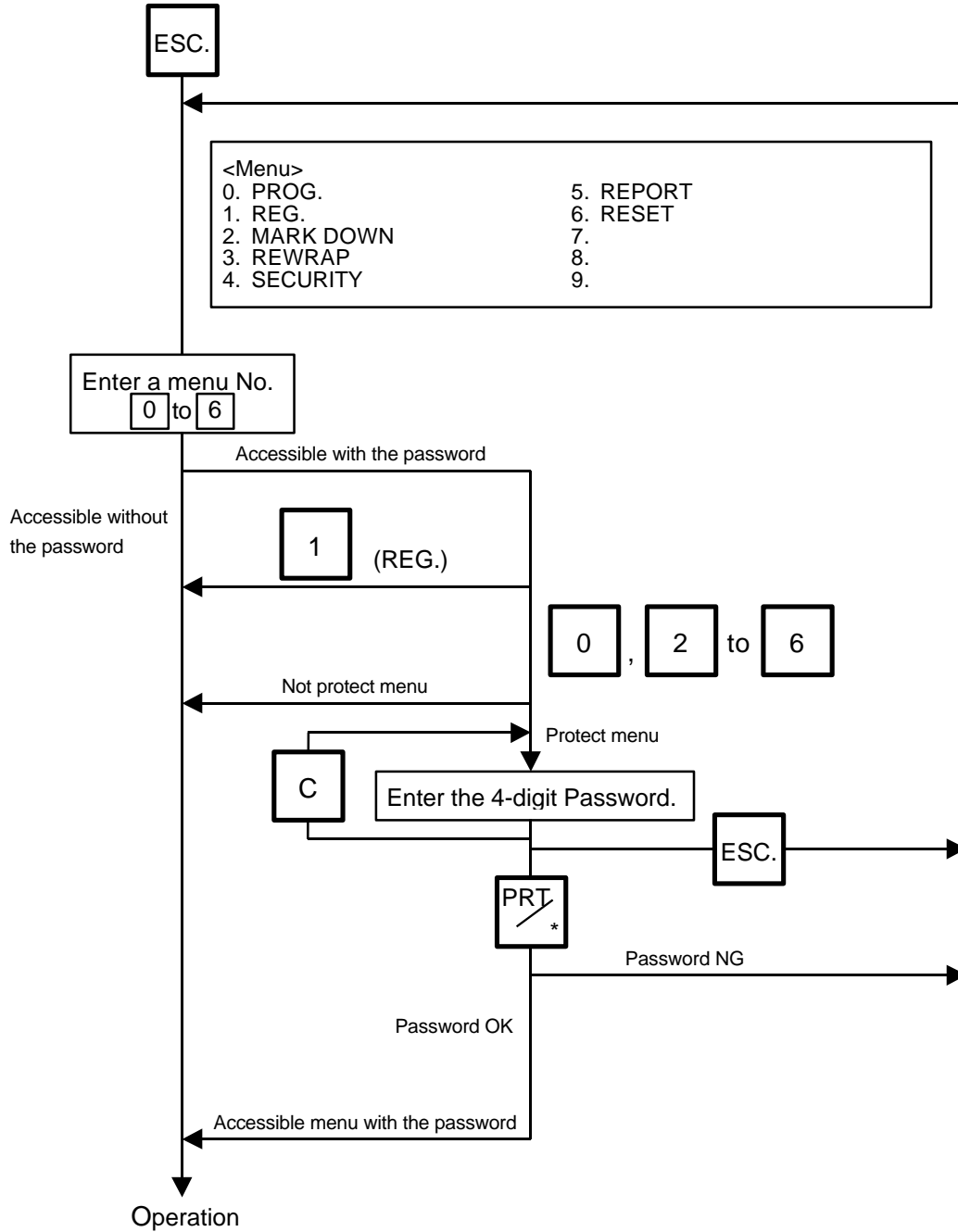
Operation

*NOTE:* *When the password is unknown, enter "HELP" instead, and you can access only security menu.*

# 13. OPERATING PROCEDURES

| *WARNING!* |
|---|
| Do not exceed the platter weight of maximum capacity.   Or hang any item from the scale which exceed the platter weight. |

## NOTES BEFORE STARTING OPERATION

(1)   Turn the power ON.

(2)   A sixteen-second scanning will be performed after pressing the POWER  key.

(3)   Should a power failure occur during operation, remove the commodity from the platter and insert the power plug into an AC outlet again when power is restored.

(4)   If the scale is used with an unrated power source, inaccurate scaling or other errors may occur.

(5)   If the zero point has shifted during scaling, and no tare is displayed, adjust the zero point by depressing the ZERO  key.

(6)   Check the date of the scale before operation every day.

(7)   Make a test print before operation every day.
Press the TEST  key, and the test label is issued.

## How to access REG., M.DOWN, or REWRAP menu

The following display is the REG. menu display.   When this display is shown after pressing the POWER  key, you can start the REG. operation right away.

```
<REG.>  MANU.   WEIGH
      ENTER THE PLU #


        lb      UNIT/$    TOTAL $
        0.000      P      000000
```

To access a menu from other menus, press the ESC. key to show the  Main  menu  and enter the menu No.  When the M.DOWN and REWRAP menus are protected, enter the menu No. and then the password.

```
<Menu>
0. PROG.            5. REPORT
1. REG.             6. RESET
2. MARK DOWN        7.
3. REWRAP           8.
4. SECURITY         9.
```

**NOTE:** *If a label nothing is printed on is issued after a printed label in batch mode, refer to Section 10.11 and press the* SET NEXT  *key.*

# 13.1  WEIGHING OPERATION

Menu: REG., M.DOWN, or REWRAP
Mode:  WEIGH

The weigh mode is used to weigh a commodity and to issue the label.  The label contains data such as a weight, unit price (price per weight) and total price (calculated as a result of the weighing operation).  The following is a basic operation seen at the sales floor of a store or at a back room where different kinds and weights of commodities are repacked.   Pressing the **[VOID] key** subtracts the last entry from the memory.
**Example)**   When PLU #100 and an unit price of $8.00 are set in the speed key #12.

Enter the PLU #.   | 1 | 0 | 0 |       LB/kg   The unit of measure can be changed for CA/QR model only.  LB ↔ kg

Press :  PLU      Press the speed key.   12

Available only when the initial setting # 5-6 is set to 1.

kg scale     lb scale

100 g   1/4   1/2

Place a commodity on the platter. (Ex. 1.000 lb.)

MANUAL :  PRT/*       : AUTO

The label is issued

Press when canceling the last sales.   VOID

| <REG.>   MANU.   WEIGH | | |
| T-BONE STEAK | | |
| lb | UNIT/$ | TOTAL $ |
| 1.000 | 8.00 | 8.00 |

T-BONE STEAK

PACKED ON  DEC 28
SELL BY  JAN 2

2 11111 508006

1.000        8.00    $8.00
NETWT. ℔      PRICE ℔ $    TOTAL PRICE $
TEC STORE
(TEL) 0123-45-6789

(Sample label)

*NOTES:*
1. *Pressing a speed key to which no PLU data has been assigned will result in an error.   In this case, press the [C] key, then press a speed key to which PLU data has been assigned.*
2. *To change between AUTO and MANUAL, follow the procedure provided in section 13.9.*
3. *If a unit price exceeding 4 digits is obtained by multiplying by 2 or 4 (when pressing the [1/2 lb] key or [1/4 lb] key), the unit price will be 0.*
4. *[100 g] key is available only when the scale is a kg scale or operated on kg base.*
5. *When the [1/2 lb] , [1/4 lb] or [100 g] key is pressed, the unit price does change on the display.*
6. *When the "compulsory tare" is selected, a tare must be subtracted in a weighing operation, otherwise an error message "TARE REQUIRED" will be displayed when the following operation has been done:*
   *Manual mode: Pressing the [PRT/*] key.*
   *Auto mode: Placing a commodity on the platter.*
   *Floating vendor mode: Pressing the [Vendor] key.*
   *When a "TARE REQUIRED" is displayed, refer to Section 13.6 to follow the proper weighing procedure.*

## 13.2 FIX PRICE OPERATION (FOR US TYPE ONLY)

The FIX mode (Fix Price Mode) is used to issue a label for a commodity of a fixed price PLU (i.e. the price determined by the store), the weight of which may vary from commodity to commodity.   In this mode, the Unit Price of the commodity looked up from the PLU file will be printed as the Total Price regardless of its actual weight, and the weight is also printed on the label.
Menu:  REG., M.DOWN, or REWRAP
Mode:  FIX

**Example)**   In the case of PLU #636 of fixed price $3.80 which is assigned to speed key #7.

Enter the PLU #.

| 6 | 3 | 6 |
|---|---|---|

Press  PLU          Press the speed key.   | 7 |

Place the commodity on the scale platter.
(Ex. 1.000 lb.)

AUTO :          MANUAL :

PRT /*

The label is issued.          The label is issued.

<REG.>   MANU.    FIX
SMOKED SALMON CHUNKS

| lb | UNIT/$ | TOTAL $ |
|---|---|---|
| 1.000 | | 3.80 |

SMOKED SALMON CHUNKS

PACKED ON  DEC 28
SELL BY  JAN 7

222222 003809

1.000          $3.80

NETWT. lbs     PRICE lb $     TOTAL PRICE $

TEC STORE
(TEL) 0123-45-6789
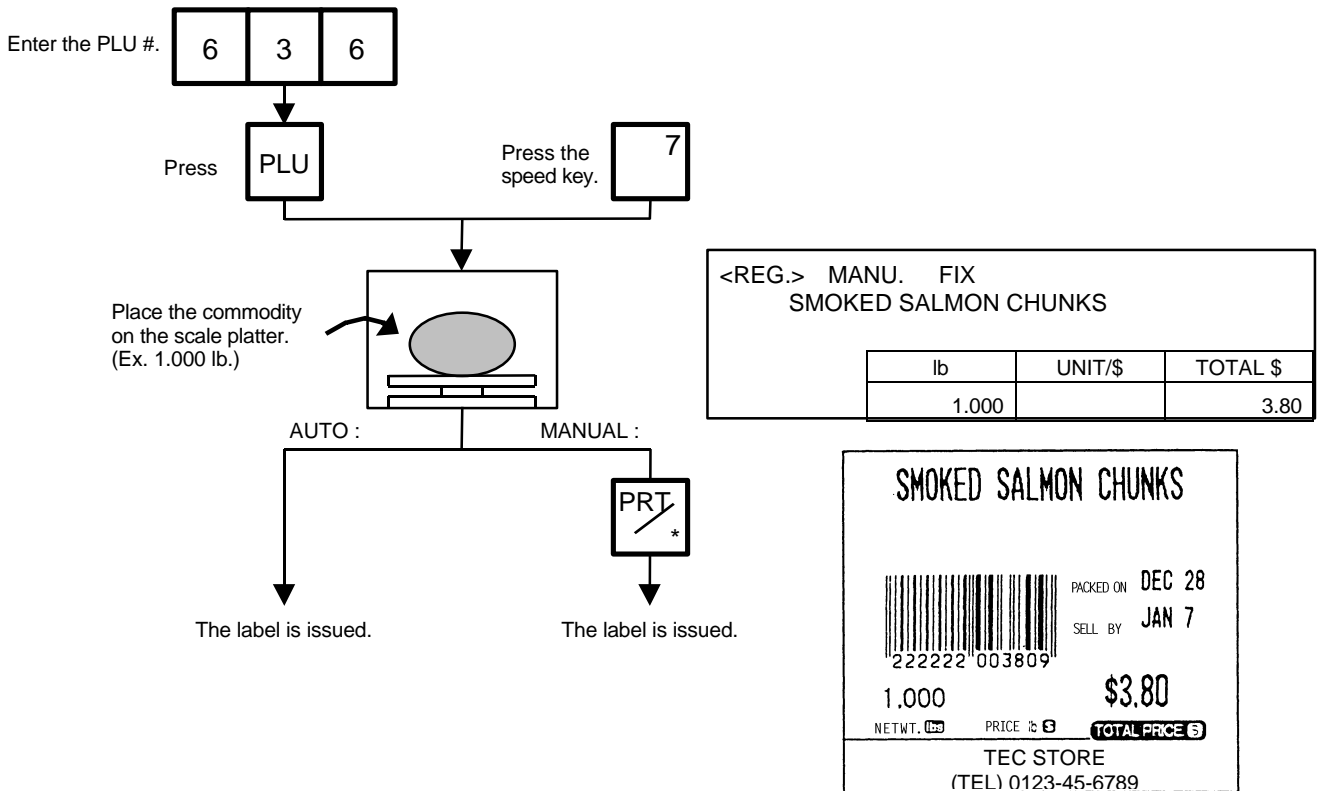
(Sample label)

## 13.3 BY COUNT OPERATION

The BY-COUNT mode is used to issue the label of commodities of the same kind in a package (or may not be packed).   The whole package quantity (or a certain quantity) and the whole package price (or the price per the quantity) are usually preset.   Thus, it is not necessary to weigh the commodities by the scale in such cases.

Menu:  REG., M.DOWN, or REWRAP
Mode:  BY-COUNT

**Example)** In case of sell 10 DONUTS at the price of $1.50 per 4 DONUTS.   (When a price of $1.50/4 DONUTS is set for PLU #33.)

Enter the PLU #.          | 3 | 3 |

PLU

Enter the quantity of purchase (Max. 2 digits)          | 1 | 0 |

PRT *

AUTO                MANUAL

The label is issued in succession after peeling it.          Single label is issued.

Press to suspend label issue temporarily.          C

PRT * Press to resume label issue.

Press to cancel label issue.          C

The display returns to the initial screen.          PLU

US type

| <REG.>  MANU.   BY-COUNT DONUTS | | |
|---|---|---|
| PCS | UNIT/$ | TOTAL $ |
| 10 | 4/1.50 | 3.76 |

CA/QR type

| <REG.>  MANU.   BY-COUNT DONUTS | | |
|---|---|---|
| Kg | $/Kg | $ |
| ---- | P    10 | 3.76 |

DONUTS

000000 000017

PACKED ON DEC 28
SELL BY JAN 4

10 PCS          4/ 1.50  $3.76
NETWT. lbs          PRICE lb $   TOTAL PRICE $
TEC STORE
(TEL) 0123-45-6789

(Sample label for US type)

DONUTS

000000 000017

PACKED ON DE 28
SELL BY JA 4

10  PIECES          $3.76
NETWT. lbs          PRICE lb $   TOTAL PRICE $
TEC STORE
(TEL) 0123-45-6789

(Sample label for CA and QR types)

**Example)** An open price item can be sold as below:
　　　　　1 piece at 15 dollars
　　　　　15 pieces at 10 dollars
　　　　　15 pieces sold at 0.5 dollars per 10 pieces

Enter the PLU #. | 5 | 1

Press: | PLU

　　　　　　　　　　　　　　　　　　　ex.)

Enter quantity | 1 | 5 　　　Enter price | 1 | 5

Press: | FOR

　　　　　　　　　　　ex.)

ex.)

Enter quantity | 1 | 0 　Enter price | 1 | 0

Press: | FOR

Enter total price | 5 | 0

PRT /*
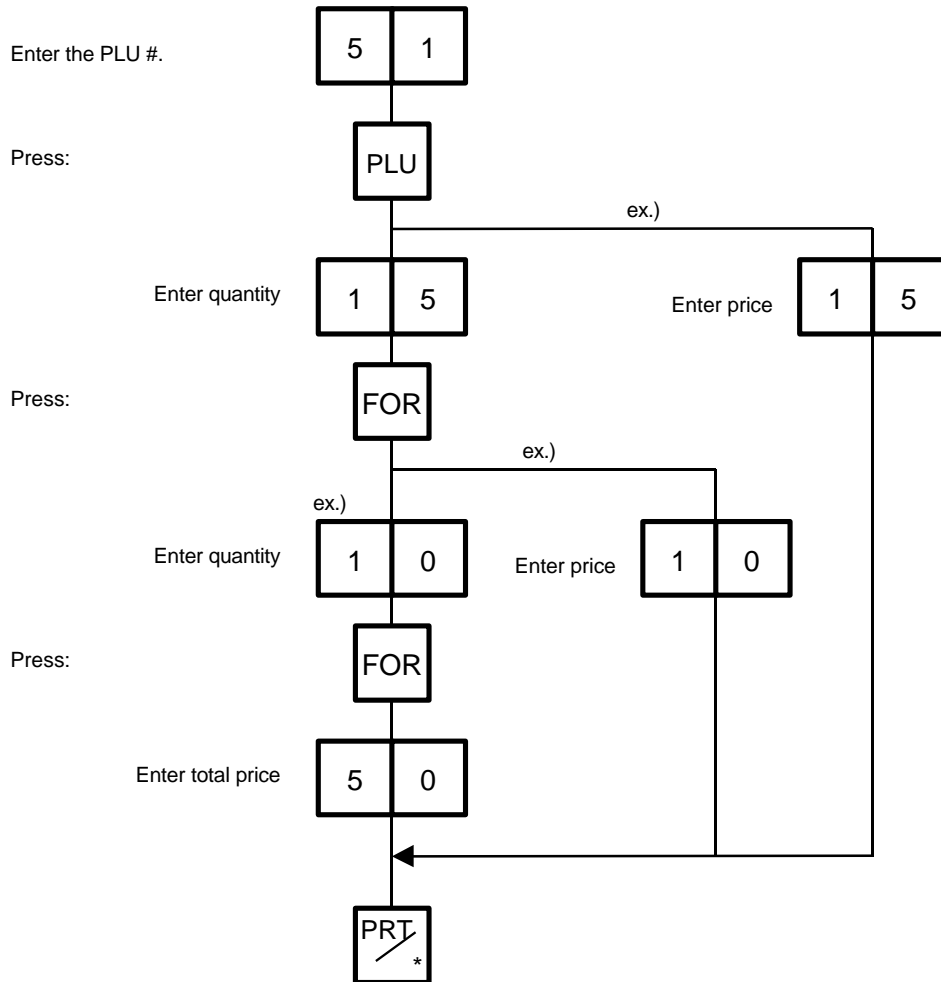
## 13.4 PRINT COUNT OPERATION

With this procedure, a specified number of the same labels can be issued.
Menu:  REG., M.DOWN, or REWRAP
Mode:  WEIGH, FIX or BY-COUNT

**Example A)**  When operating in Weigh mode.

Press :  | PRESET COUNT |

Set the number of labels.
(Max. 99 labels)  | 5 | 0 |

Press :  | PRT * |

Enter the PLU #.  | 3 | 0 | 9 | 1 |

Press :  | PLU |

PLU data is saved.  | SAVE |

Place a commodity on the platter. (Ex. 0.700 lb.)

MANUAL :  | PRT * |   : AUTO

Batch — The label is issued with the backing paper attached.

On-demand — The label is issued.

When all the specified numbers of the labels are being issued.

© Remove the commodity.

Clear the preset count.  | C |

Press :  | PRT * |

### NOTES:

1. *A batch issue means to print labels continuously with the backing paper attached.  On-demand issue means to print label one by one.*
2. *To check the remaining number, clear the PLU and press the* | PRESET COUNT |  *key.*

**Example B)**    When operating in Fix or By Count mode.

Press :     PRESET COUNT

Set the number of labels. (Max. 99)     2    5

Press :     PRT *

Enter the PLU #.     1    5

Press :     PLU

[BY COUNT] → PRT *

Press, to save the PLU data :     SAVE     [FIX]

SPLIT PRICE operation → PRT *

Place a commodity on the platter. (Ex. 1.320 lb.)

Batch / On-demand

The specified numbers of labels are issued in succession with the backing paper attached.

The label is issued after peeling it.

MANUAL : PRT *     : AUTO

Batch — The label is issued with the mount paper attached.

On-demand — The label is issued.

Suspend the batch printing.     C

Resume the label issue.     PRT *

When the last label is issued :

Remove the commodity from the platter.

When all the specified numbers of labels are being issued.

Repeat until the specified number of labels are issued, alternating the commodity placed on the platter.

Press, to clear the Preset Count.     C

Clear the preset count.     C

Press, to regain the initial status.     PRT *

Press :     PRT *

13- 7

**Example C)** When issuing only the nutrition information label.   Note that nutrition information can be printed only on several types of label.   Refer to Page 10-19.

```
                    ┌─────────┐
                    │ PRESET  │
                    │ COUNT   │
                    └────┬────┘
                         │
Select basic data and    ▼
nutrition information   ┌────┐──┐
labels or               │    │  │
a nutrition information │    │◄─┘
label by pressing this  └─┬──┘
key.                      │
Set the number of labels. ▼
(Max. 99 labels)        ┌──┬──┐
                        │ 9│ 9│
                        └──┴──┘
                          │
                          ▼
                        ┌────┐
                        │PRT │
                        │  / *│
                        └────┘
                          │
Enter the PLU #.          ▼
                        ┌──┬──┐
                        │ 3│ 9│
                        └──┴──┘
                          │
                          ▼
                        ┌────┐
                        │PLU │
                        └────┘
                          │
                          ▼
                        ┌────┐
                        │PRT │
                        │  / *│
                        └────┘
```
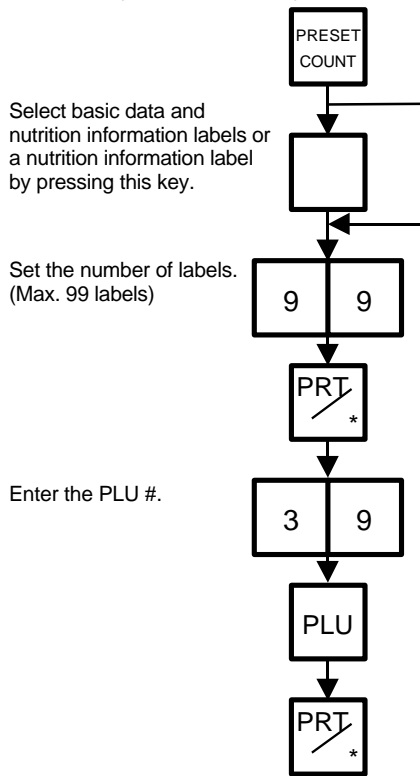
The nutrition information label is issued in the following methods.
**Table 8**

| Issue mode | Manual issue | | | | Auto issue | | | |
|---|---|---|---|---|---|---|---|---|
| | On-demand | | Batch | | On-demand | | Batch | |
| | Pre=0 | Pre>=1 | Pre=0 | Pre>=1 | Pre=0 | Pre>=1 | Pre=0 | Pre>=1 |
| Weigh | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fix (Weight/price) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fix (Net weight) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| By count | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

Pre : Preset count
1 : Issue method
After a basic data label is issued, a nutrition information label will be issued.
2 : Issue method
After the specified number of basic data labels are continuously issued, the same number of nutrition information labels will be issued.  The number of labels can be specified with the preset count setting.

# 13.5 ISSUING LABELS WITH NET WEIGHT STATEMENT (FOR US TYPE ONLY)

Menu: REG., M.DOWN, or REWRAP
Mode: FIX

When the initial settings #1-7 and #1-8 are set to 1, a Net Weight Statement is printed on the label.
A unit price and a tare registered in each PLU are printed as a price and a net weight.

**Example)** The preset price is $2.10 and the preset Net Weight is 12 oz.   The store knows that the actual Net Weight of this commodity is 19 oz. and decides to sell it at $2.00.

Enter the PLU #.

| 8 | 1 | 6 |

Press

| PLU |

Initial set  #7-1: 0                    Initial set #7-1:1

Enter the new price.

| 2 | 0 | 0 |

Press:

| PRT/* |

Enter the new weight.
(unit of weight: oz)
displayed in the incremental
display method, i.e., the data
is shifted to the left as each
digit value is entered.)

| 1 | 9 |

Initial set #1-7:1                    Initial set #1-7:0

Press:

| FOR |

Enter the quantity.

| 3 |

Press:

| PRT/* |

AUTO                    MANUAL

The label is issued.   (Labels of identical print data will automatically be issued consecutively by peeling the label off the backing paper.)

The label is issued.

| C |   | C |

Press, to cancel label issue temporarily.

Press, to cancel label issue.

| PLU |  Press, to return the PLU data to the PLU file.

13- 9

# 13. OPERATING PROCEDURES

***NOTES:***

*1. To print NET WT. data, from the FIX mode, load a label which has an area to print a NET WT. Statement.*

*2. The quantity sold number and price data in NET WT. statement operation will be accumulated in the memory.   No weight data will be accumulated.*

*3. The position of the decimal point is adjustable and a comma or period is selectable by the initial setting.*

*4. Weight data is shifted to the left.*

*5. Weight data exceeding 480 oz results in an error.*

*6. Unit price calculation system*

   *(Step 1)   Weight data is calculated from royal lb into decimal lb.(Round off the data to two decimal places.)*

        *ex.) 21 oz      1.3125 lb      round      1.31 lb*

   *(Step 2)   Price is divided by the value obtained above.*
        *(Round off the data to two decimal places.)*
        *ex.)  1.5 $/1.31 lb = 1.145      round      $1.15/lb*
                         *This data is printed.*

*7. When the unit price is less than $0.01/lb or either the weight or price is 0, the unit price will not be printed.*

*8. Multiplication registration of NET WT. statement*

   *The maximum quantity of a commodity is 99.In the following cases, an error occurs when pressing the* $\boxed{\text{PRT/*}}$ *key to issue the label.*

   *(1) Quantity = 0*

   *(2) Price × quantity > max. price*

     *<weight × pieces> max. tare (30 lb scale: 480 oz, 15 Kg scale : 9.995 Kg)*



(Sample label)

## 13.6   TARE/SAVE FUNCTION PROCEDURES

Menu:  REG., M.DOWN, or REWRAP
Mode:  WEIGH or FIX    (Tare % function is available in WEIGH mode only.)

There are two kinds of tare subtraction procedures, one is "Direct tare", the other is "Preset tare "The
SAVE key is used to save the tare, unit price, and PLU data after taking a commodity from the platter.

Place a container on the platter. (Ex. 0.200 lb)

0.200 lb

Press:  T

Enter the PLU #.    1 0 0

Press:  PLU

The PLU data and tare are saved.    SAVE

Place a commodity on the platter. (Ex. 1.000 lb)

MANUAL:  PRT *    :AUTO

The label is issued.

Press:  C

Remove the commodity together with the container.

2 0 0

T    Press:

Place a container on the platter

Tare %    1 0 0    %

Tare %    %    1 0 0    %

Remove the Commodity together with the container.

Press:  C

CA type    US type

PLU    Press:    0    Press:

T    Press:

PLU    Press:

NOTES:
1. Tare subtraction is available up to 2.000 lb. for the US type, and up to 1.000kg (2.205lb) for the CA/QR type.    When tare subtraction is in operation, however, the scalable range for net weight becomes less by the amount of the tare. (**Net weight=Gross weight-Tare**)
2. Preset tare must be a multiple of 2 g for CA/QR type (Kg scale) and a multiple of 0.005 lb for US/CA type (Lb scale).
3. The tare % function is available when the Initial Setting #8-7 is set to 1 (SL-9000) or #28-4 is set to 1 (SL-9000N).    The speed key #108 will function as the % key (Refer to page 5-3).    Set a tare % within the range from 0.0 to 99.9.
4. When a commodity is placed on the platter and the calculated tare exceeds the maximum, a " TARE WEIGH OVER" error will occur.

## 13.7 CALLING AND PRINTING GRADE LINES

A grade line is a short message added to a commodity name.
A grade line can be selected from maximum of 49 programmed grade lines and printed on the label.

Menu: REG., M.DOWN, or REWRAP
Mode: WEIGH or FIX, or BY COUNT

Enter the PLU #.            [ 3 | 1 ]

Press:                     [ PLU ]

Press:                     [ G.LINE ]

Enter the G.LINE #.        [ 5 ]
(1 to 49)

Press:                     [ PRT/* ]

Press:                     [ PRT/* ]

The label is issued.
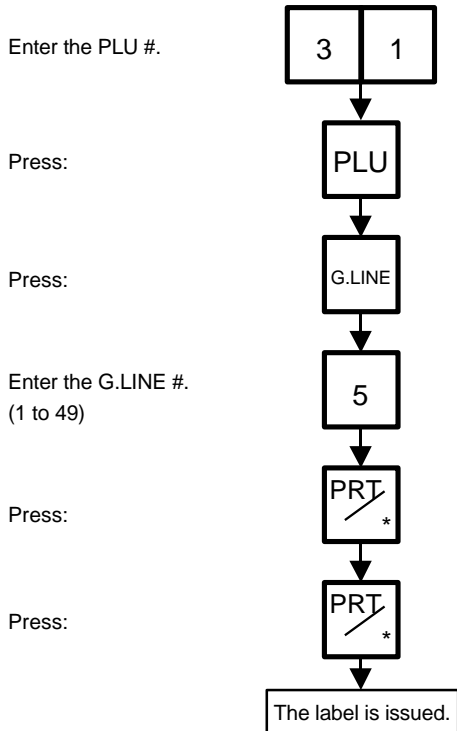
| <REG.> MANU. BY-COUNT | | |
|---|---|---|
| DONUTS | Commodity Name | |
| PREMIUNS OFFERED | Grade Line | |

| | PCS | UNIT/$ | TOTAL $ |
|---|---|---|---|
| | 10 | 4/1.50 | 3.76 |

**DONUTS**

PREMIUMS OFFERED

PACKED ON DEC 28

SELL BY JAN 4

000000 000017

10 PCS     4/ 1.50   $3.76

NETWT. lbs   PRICE lb $   TOTAL PRICE $

TEC STORE
(TEL) 0123-45-6789
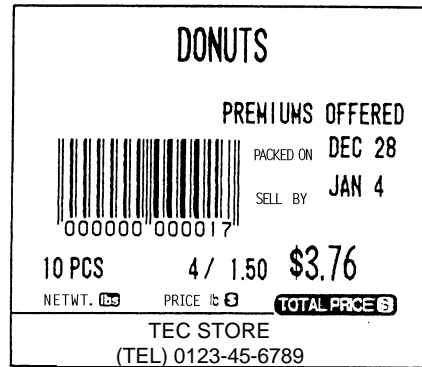
(Sample label)

## 13.8 CALLING AND PRINTING LOGOS

When the initial set #10-7 is set to "1" (or "2": SL-9000N only), a logo containing a picture, a mark, a POP message, etc., can be printed on the ingredient label having 12 lines or more.
Logo data is created on the PC and stored into the memory through the CMT/PL-3 interface.

Menu:  REG., M.DOWN, or REWRAP
Mode:  WEIGH, FIX, or BY COUNT

Press:  [LOGO]

Select the LOGO type
(LOGO(1) ↔ LOGO(2) ↔ F.Shopper)
└ SL-9000N only

Enter the logo #.
(1 to 26 or 1 to 99)

[1] [0]

SL-9000N only

[0] or [C]    Clear the entered logo #.

Press:  [PRT/*]

Start the label issue operation.
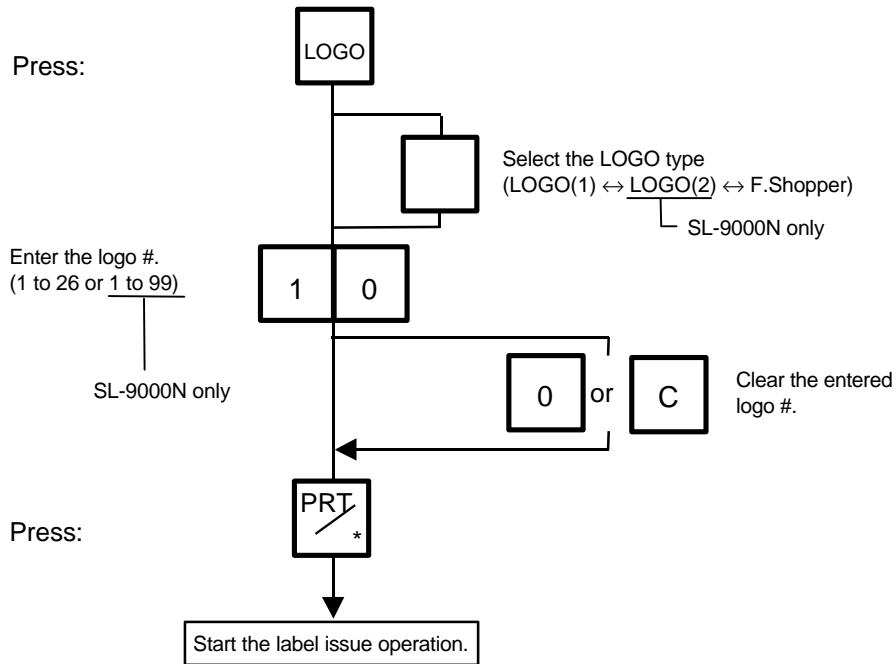
***NOTES:***
1. *The logo # will be effective until it is changed or deleted.*
   *(Logo # is still effective after turning power off and/or changing mode.)*
2. *Pressing the **[PRT/*] key** returns the display to the initial display of Weight mode.*
   *This clears the unit price and tare data.*
3. *LOGOs will not be printed together with a safe handling instruction on a label.*
4. *LOGOs will be printed in the center of a label.*
5. *LOGO # "1 to 26" or "1 to 99" is selectable with the initial setting #10-7. (SL-9000N only)*

## 13.9   SELECTING PRINT ITEM

Menu:  REG, M.DOWN, or REWRAP
Mode:  WEIGH, FIX, or BY COUNT

Press:

PROG.

NEXT PLU   or   VOID

Select an item.
(Refer to Table. 9)

| 1 | to | 1 | 1 | | 2 | 0 | | 2 | 7 | to | 3 | 0 |

Print        No print
1:Print
0:Non print

Idle time till the
Auto message is
displayed.

| 7 | 0 |

Press:

PRT
*
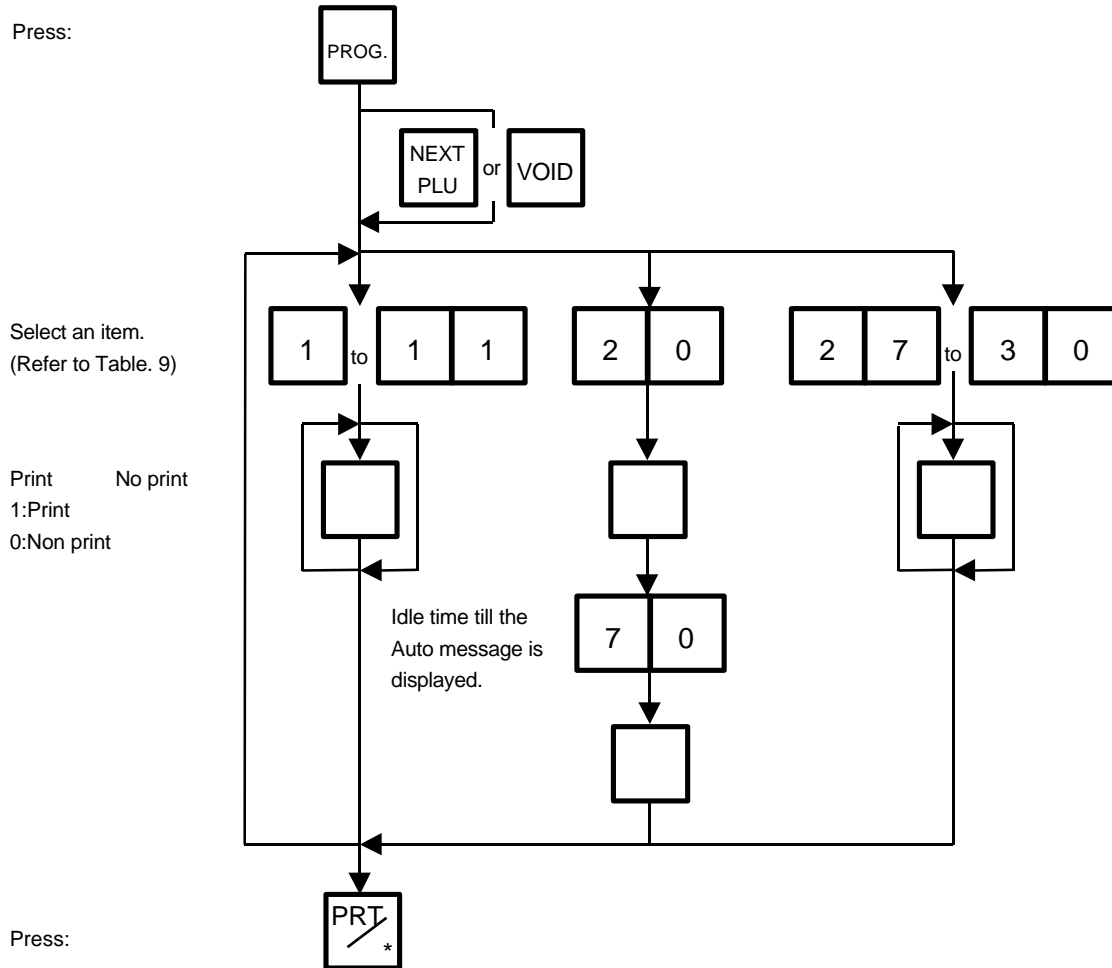
### Table 9

| Entry | Item | | Entry | Item | |
|-------|------|---|-------|------|---|
| 1 | Packed on date | Print/Non Print | 9 | Piece count | Print/Non Print |
| 2 | Sell by date | Print/Non Print | 10 | Cooked by date | Print/Non Print |
| 3 | Commodity name | Print/Non Print | 11 | SP/Info./Net Wt. | Print/Non Print |
| 4 | Weight | Print/Non Print | 20 | Auto message timer | 0   99 sec. |
| 5 | Unit price | Print/Non Print | 27 | Media selection | Label/Receipt |
| 6 | Total price | Print/Non Print | 28 | Print format | Format No. Selection |
| 7 | Barcode | Print/Non Print | 29 | Mode (2) | Weight/Fix/By count |
| 8 | Ingredient | Print/Non Print | 30 | Mode (1) | Auto/Manual |

***NOTES:***
*1. A store code can be printed in place of a 'packed on date' and 'sell by date' by changing the initial settings #6-5 and #6-6.*
   *To print a store code, select 'packed on date' or 'sell by date' as a print item using the above procedure.*
*2. The print of "packed on time" with alphabetical code can be selected with the Initial setting #6-6. (SL-9000N only)*
*3. Setting data will not be changed by turning the power off, changing the mode or calling a PLU.*
*4. The ⬚0 key has no function.*
*5. Pressing the ⬚C key allows you to return to the step of selecting the 'packed on date'.*
*6. The range of idle time=0 to 99 seconds. A setting ' 0' prohibits display of an auto message.*
*7. Item 29 is operable only when the initial setting #1-5 is set to '0'.*
*8. Be sure to press the ⬚FEED key after the ⬚PRT/* key when changing the label format.*

# 13.10  DATE CHANGE

The date can be changed temporarily.

Menu: REG., M.DOWN, or REWRAP
Mode: WEIGH, FIX, or BY COUNT

Press:  DT/TM

Enter the new date.
(Ex. Dec. 18, 1994)

| 1 | } Month |
| 2 | |
| 1 | } Day |
| 8 | |
| 9 | } Year |
| 4 | |

PRT/*

DATE    1 2 1 8 9 4
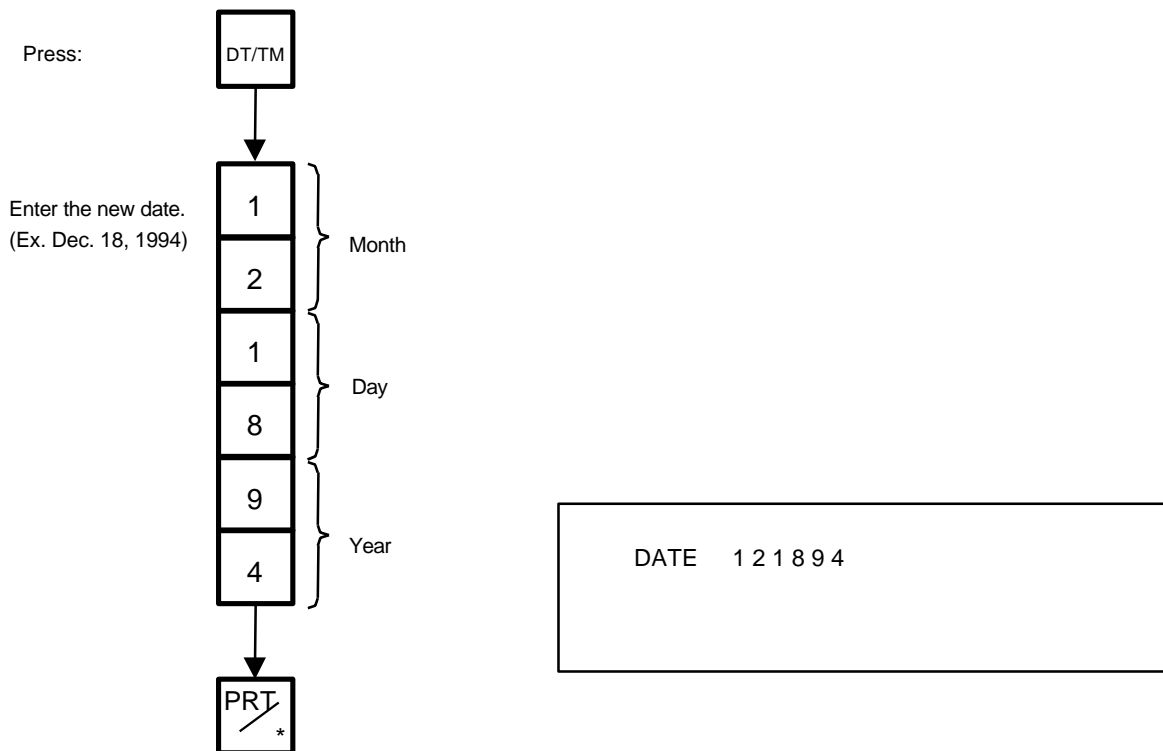
> ***NOTE:*** *The scale will check the details of the date input. An invalid date will result in an error.*

## 13.11 BATCH PRINT MODE (with 30 Items Run Assignment)

Menu: REG., M.DOWN, or REWRAP
Mode: FIX, or BY COUNT

Up to 99 labels per PLU can be issued in non-scale mode.   Up to 30 items can be preset.   (However, 0 is preset, issuing will be canceled.)

Enter the PLU #.

Press:

Press:

Enter the number of labels to be issued (max. 99)

Register next preset item

Change or cancel the number of labels to be printed (not functions when an item is not registered.)

Next PLU: The next PLU is recalled.
VOID:      The previous PLU is recalled.

Change the number of labels to be issued (max. 99).

Press:

Press:

(The labels are issued in the order of programmed PLU.)

Item#
(1 to 30)     PLU#      Preset number of labels

```
<REG.>  MANU.    BY-COUNT
        ITEM#01 (000001) CNT= 0
```

| lb | UNIT/$ | TOTAL $ |
|----|--------|---------|
|    |        |         |

The label is issued.

## Unit Price Change and G.Line/LOGO Call

```
                            ╲ x ╱
                             ╲╱

Enter the quantity.         ┌───┬───┐
                            │ 3 │ 0 │
                            └───┴───┘

Call the Grade Line.        ┌───────┐
                            │ GRADE │
                            │ LINE  │
                            └───────┘

Enter the required Grade Line#   ┌───┬───┐
(1 to 49).                       │ 1 │ 2 │
                                 └───┴───┘

Press:                      ┌───────┐
                            │ PRT   │
                            │     * │
                            └───────┘

Call PLU designation        ┌───────┐
LOGO. (*1)                  │ LOGO  │
                            └───────┘
                                              Select the LOGO type
Enter the required              ┌───┐         (LOGO (1) ↔ LOGO (2) ↔ F.Shopper)
LOGO# (1 to 26).                │   │
                                └───┘              SL-9000N only

Press:                      ┌───┬───┐
                            │ 1 │ 0 │
                            └───┴───┘

                            ┌───────┐
                            │ PRT   │
                            │     * │
                            └───────┘

                             ╲ y ╱
                              ╲╱
```
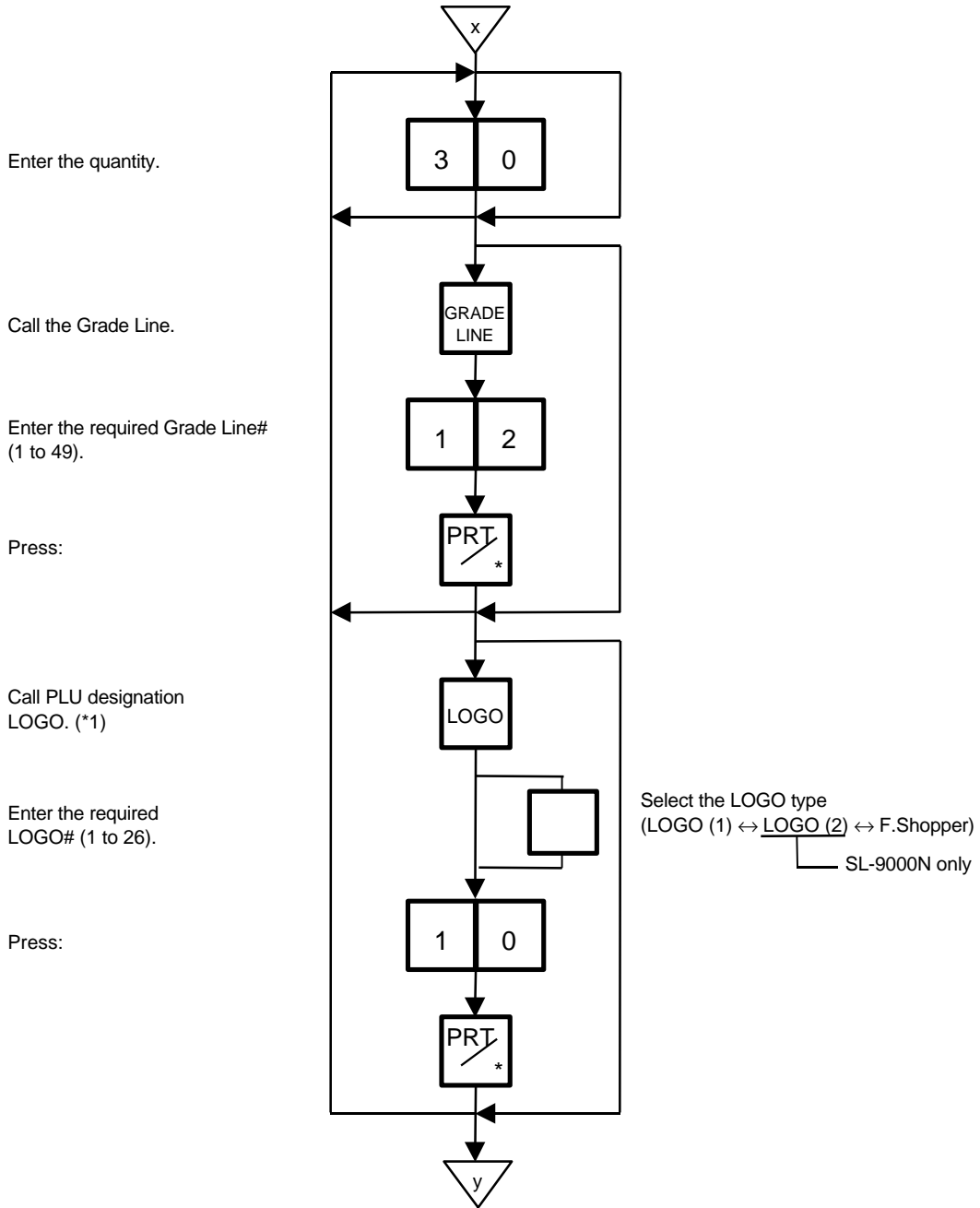
*1 By calling the PLU designation LOGO, the LOGO can be designated per PLU and printed. When the PLU dose not designate the LOGO, the LOGO programmed before entering Batch Print Mode is printed.

## Label Issue Stop or Cancel

Clear an error or stop label issuing.

Cancel output

Press:

Stop issuing the labels and cancel PLUs which have not been output.

```
                    Z
                    |
        +-----------|
        |           v
        |         +---+
        |         | C |
        |         +---+
        |           |
        |     +-----|
        |     |     v
        |     |  +------+
        |     |  | VOID |
        |     |  +------+
        |     |     |
        |     +-----|------+
        |           v      |
        |        +------+   |
        |        | PRT/ |   |
        |        |   *  |   |
        |        +------+   |
        |           |       v
        |           |    +---+
        |           |    | C |
        +-----------+    +---+
                    |       |
                    v       v
                  / A \  +-----------+
                  \___/  | Completed |
                         +-----------+
```
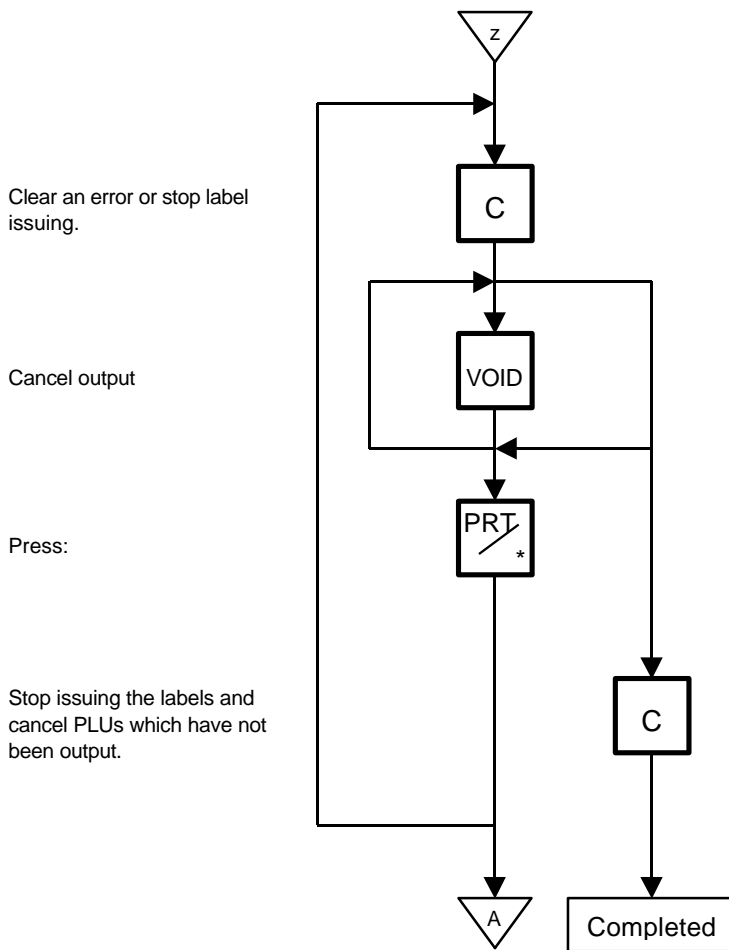
### NOTES:
1. When the label for NET.WT statement is not selected, pressing the $\boxed{\text{PRESET COUNT}}$ key in FIX mode results in an error.
2. Programmed items are reset when:
   - the power is off.
   - changing the menu.   (PROG./REG)
   - changing the mode.   (weight/by count/fix)
   - batch printing has been finished.
3. Pressing the $\boxed{\text{PRESET COUNT}}$ key to preset the 31st item results in an error.
4. The LOGO and Grade Line called per PLU cannot be changed.
5. The label issued in Batch Print Mode cannot be corrected using the $\boxed{\text{VOID}}$ key.
6. "TOTALS OVERFLOW" error occurs when the $\boxed{\text{PRINT}}$ key is pressed to issue each PLU label.

## 13.12  VISUAL COMMODITY LIBRARY

Menu:  REG., M.DOWN, or REWRAP
Mode:  WEIGH, FIX, or BY COUNT

In the following procedure, entering a group # (the upper two digits of PLU#) allows you to call 6 commodities which belong to the group.   This function is convenient when calling a commodity which PLU# you do not know.

Enter a group #. 　 [1] [2] 　 　 [Dpt # 12]  Enter a group # using the speed key.

Press: 　 [Group #]

NEXT PLU:   go to next page
VOID:   go to previous page
[NEXT PLU]  [VOID]

Enter a number in the brackets to call the PLU.
[2]

Proceed to basic operation.
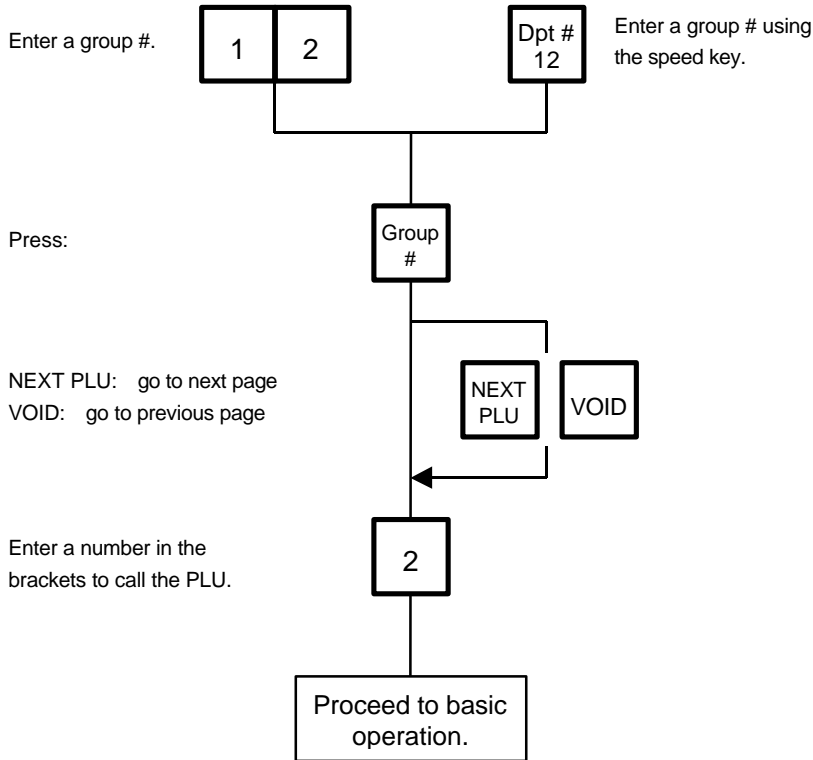
## 13.13 FLOATING VENDOR

Menu: REG
Mode: WEIGH, FIX, or BY COUNT

Floating vendor function allows you to register different commodities sales together. This function is available when the Initial Setting #11-1 is set to 1 and using a receipt.
Be sure to select IN-LINE in Section 10.15 LON SYSTEM even if no scale is connected, then enter the ID# 1, turn the power off and then on.

Maximum number of registerable commodities
　　One scale:　200 commodities
　　One vendor:　99 commodities



| Enter the PLU# | 2 | 0 |

Press: PLU

Place a commodity on the platter.

Group Vender | Direct Vendor

| Press the speed key the group vendor # is assigned to. | Press the speed key the vendor # is assigned to. |

Enter the last digit of the number.

```
<REG.>
     APPLE                                10  ← vendor#
                                           1  ← Item Count
```

| 1b | UNIT/$ | TOTAL $ |
|---|---|---|
| 1.000 | 1.00 | 1.00 |
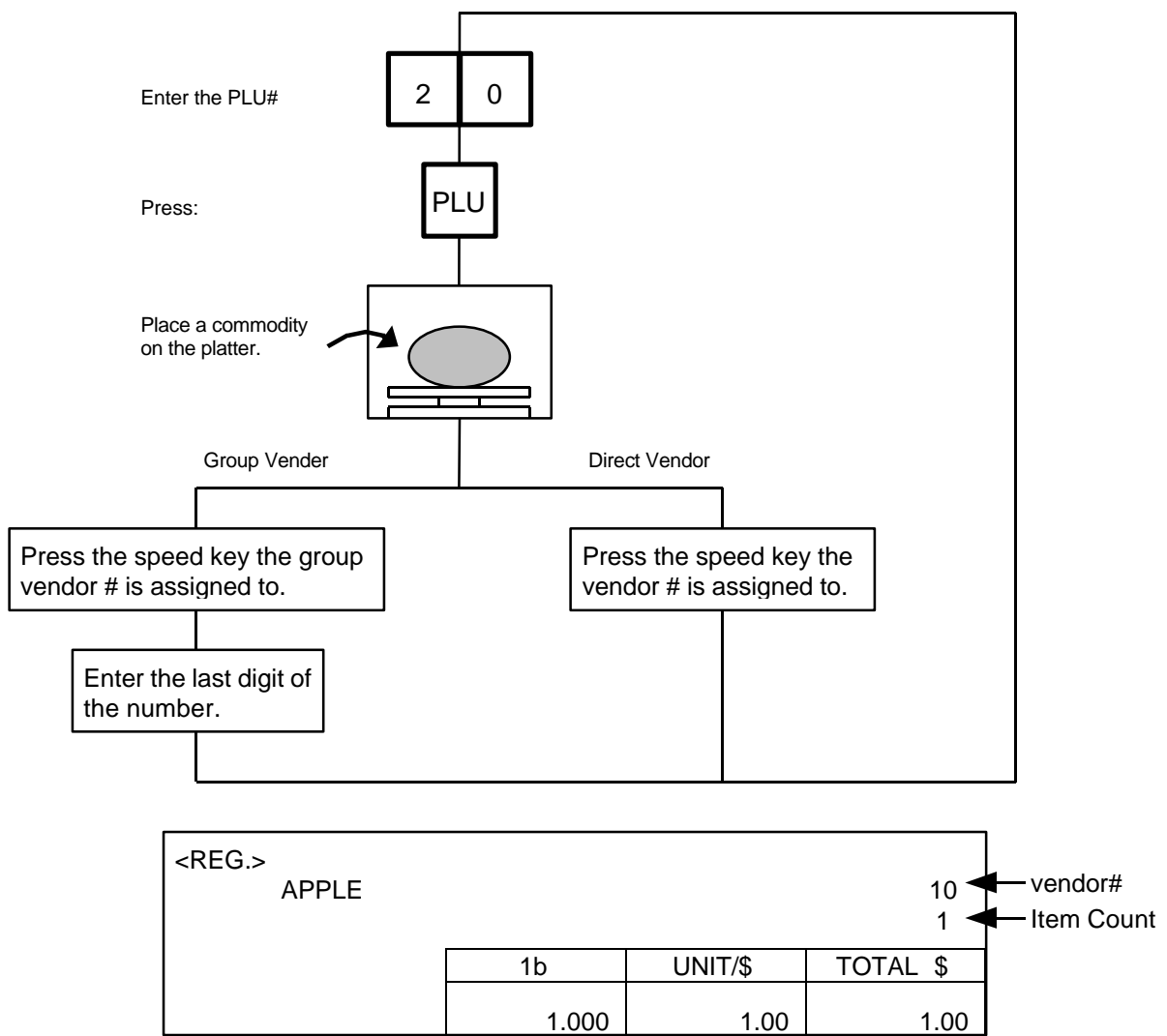
***NOTE:*** *Print format varies depending on the settings of the Initial Setting #11-1, 11-2, 11-3, 11-4 and 11-7.*

## Price deletion

Prices already registered can be deleted in the following procedure.

```
                        ┌──────────────────┐
                        │  Enter vendor #.  │
                        └──────────────────┘
                                 │
                             ┌───────┐
Enter the deletion mode.     │ VOID  │
                             └───────┘
                                 │
                    ┌────────────┤
                    │        ┌───────┐      ┌───────┐
NEXT PLU:  the next item     │ NEXT  │  or  │ VOID  │
VOID:   the previous item    │ PLU   │      └───────┘
                    │        └───────┘
                             ┌───────┐
Delete a registered price.   │ PRT   │
                    │        │    *  │
                    └────────└───────┘
                                 │
                             ┌───────┐
Exit the deletion mode.      │   C   │
                             └───────┘
```
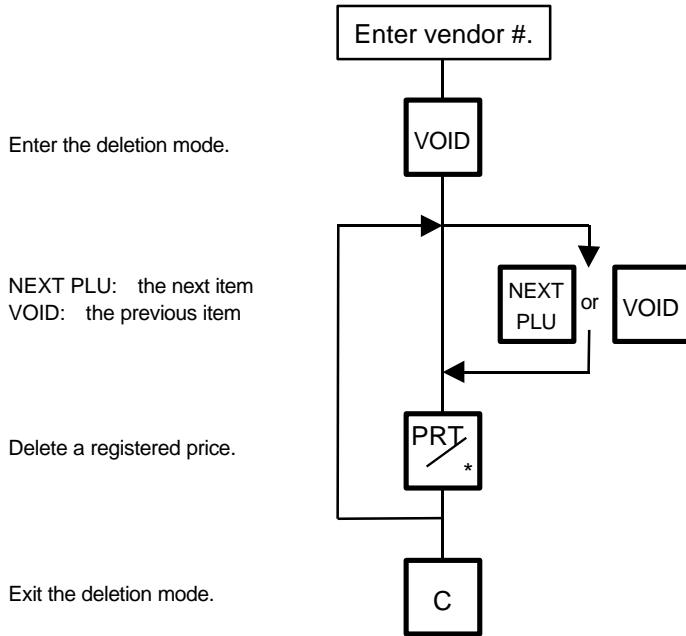
## Subtotal

The following procedure will sum up all of the registered items.

```
                        ┌──────────────────┐
                        │  Enter vendor #.  │
                        └──────────────────┘
                                 │
Press:                       ┌───────┐
                             │  ST   │
                             └───────┘
                                 │
                        ┌──────────────┐
                        │ Enter prices.│
                        └──────────────┘
                                 │          ┌───────┐
                             ┌───────┐      │   C   │   Press:
Press:                       │ PRT   │      └───────┘   (Cancel)
                             │    *  │
                             └───────┘
                                 │
                        ┌──────────────────────┐
                        │ A receipt will be issued. │
                        └──────────────────────┘
```

13-21
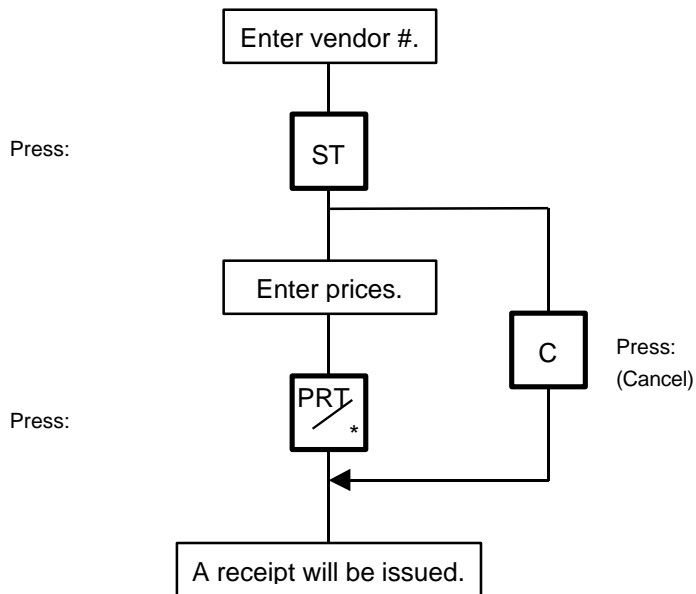
# 14. TOTAL OPERATION

In Report or Reset mode you can issue a sales report or reset report with either a label or journal paper.
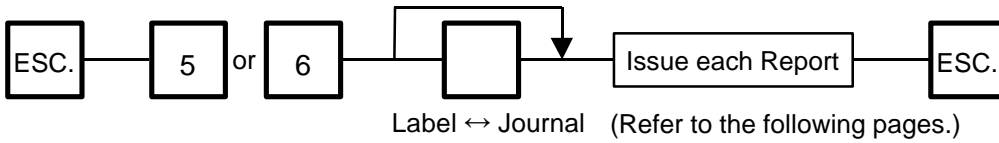
Menu: REPORT or RESET

REPORT
The totals will not be cleared as they are printed on labels or journal paper.
RESET
The totals will be cleared as they are printed on labels or journal paper.

```
ESC. ── 5 or 6 ──┌──────┐──▶ Issue each Report ── ESC.
                 └──────┘
```

Label ↔ Journal   (Refer to the following pages.)

| No. | ITEM | REPORT | RESET | JOURNAL | LABEL |
|-----|------|--------|-------|---------|-------|
| 0 | HOURLY TOTAL | | | | |
| 1 | GRAND TOTAL | | | | |
| 2 | PLU TOTAL | | | | |
| 3 | VENDOR TOTAL | | | | |

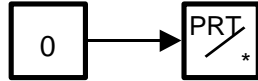### How to access REPORT or RESET menu

The following main menu is displayed after pressing the ESC. key.   Enter '5' to enter the REPORT menu or '6' to enter the RESET menu.   When those menus are protected, enter the menu No. and the password.

```
<Menu>

0.  PROG.          5.  REPORT
1.  REG.           6.  RESET
2.  MARK DOWN      7.
3.  REWRAP         8.
4.  SECURITY       9.
```

## 14.1 HOURLY TOTAL REPORT

Ex.) REPORT Menu

```
┌─────┐      ┌─────┐
│  0  │ ───▶ │ PRT │
│     │      │   * │
└─────┘      └─────┘
```
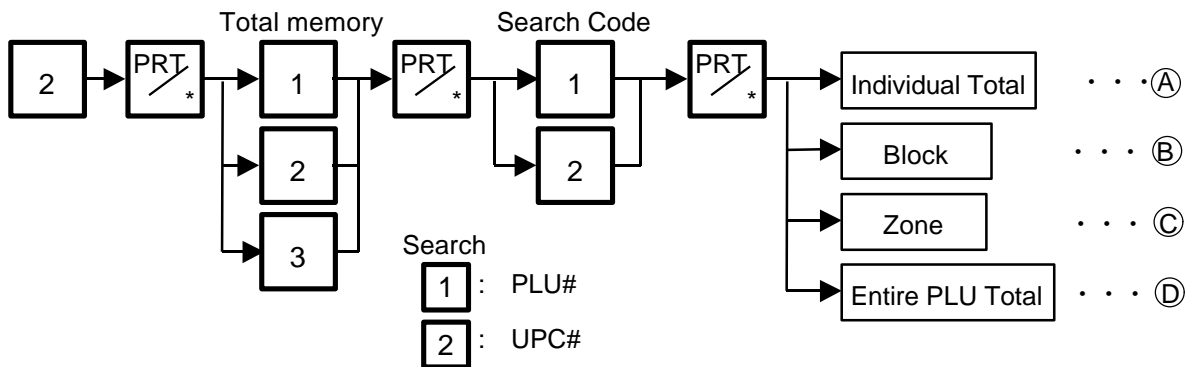
*NOTES:*
1. *When issuing an hourly report, hours with no sales are not printed.*
2. *An hourly report is printed as follows:*
   1) *Label:   Issued sequentially in on-demand mode.*
   2) *Journal paper:   Issued with journal paper.*
   3) *Label with backing paper:   Issued sequentially in batch mode.*
3. *If the* C *key is pressed during issuance, the hourly report being printed will complete, then the total report will be issued.   If this is done in Reset mode, the print data is cleared to zero.*
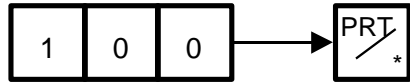
## 14.2 GRAND TOTAL REPORT



Total memory

| 1 | : Day total |
| 2 | : Mark Down total |
| 3 | : Rewrap total |
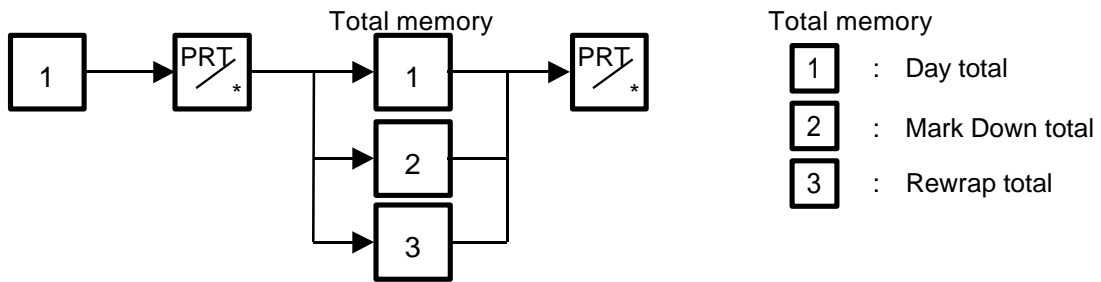
## 14.3 PLU TOTAL REPORT



Search

| 1 | : PLU# |
| 2 | : UPC# |

Ⓐ Individual Total
Ⓑ Block
Ⓒ Zone
Ⓓ Entire PLU Total

14- 2

Ⓐ Individual Total
   Ex.) Individual PLU Total (PLU #100)

| 1 | 0 | 0 | → | PRT * |

Ⓑ Block Total
   Ex.) UPC Block Total (UPC #100100 to 100199)

| 1 | 0 | 0 | 1 | | | → | PRT * |

*NOTE: The ☐ key represents 0 through 9.   The most significant digit in the starting number is followed by an appropriate number of ☐ keys.*

Ⓒ Zone Total
   Ex.) PLU Zone Total (PLU #100 to 107)

| 1 | 0 | 0 | → | PLU | → | 1 | 0 | 7 | → | PRT * |

Ⓓ Entire PLU Total

| PRT * |
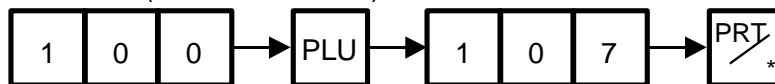
**NOTES:**
1. *When setting the PLU zone, it is not necessary to enter a beginning number which is smaller than an end number.*
2. *When issuing a block or a zone total report, a PLU with no sales record is not printed.   If all PLUs of the block or zone have no sales record, only the total is printed.*
3. *Pressing the C key in the middle of issuing a reset report stops printing and data is not cleared.*

## 14.4  VENDOR TOTAL REPORT

| 3 | — | PRT * | —(All)— | PRT * |

(Individual)

Enter an individual vendor #.
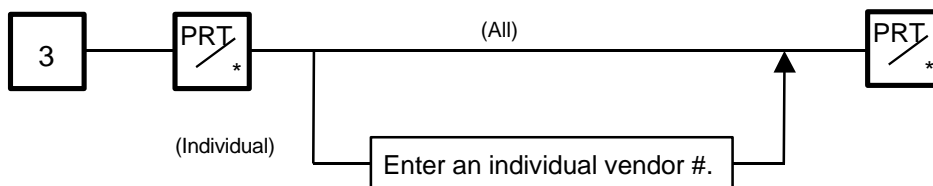
# 15.  ERROR MESSAGE TABLE

Take the following action if an error message has appeared on the commodity name display along with the buzzer sounding.

| WARNING: |
| --- |
| *If you cannot solve the problem with the following solution instruction, do not attempt further trouble shooting, by yourself.  Turn the power off, unplug the printer, then contact your Authorized Service representative for assistance.*<br>*Do not attempt to repair or adjust alone, because electrical equipment is dangerous.* |

### Programming Mode

| Message | Cause | Solution |
| --- | --- | --- |
| DATA ENTRY ERROR | Error in key input. | Press the CLEAR key, and re-input the right data. |
| MEMORY FULL | No memory space to set PLU. | Press the CLEAR key, and delete unnecessary PLUs. |
| DUPLICATE PLU | The PLU # being changed is already registered. | Press the CLEAR key, and check the PLU. |
| PLU NOT FOUND | The PLU # being called out is not registered. | Press the CLEAR key, and set the data to free PLU#. |
| CHARACTER OVERRUN | Attempt is made to set more than max. allowed number of characters. | Press the CLEAR key, and re-input the right data. |
| PRT FAILURE DETECTED | Printer trouble. | 1.  Check that the label and print head are set correctly.<br>2.  If the label home position is misaligned, press the FEED key. |
| LABEL OVERRUN | Label overruns. | Press the FEED key. |
| RESTORE THE PLUS | The capacity of RAM was changed with the ingredient data stored. | Press the CLEAR key and save the ingredient data. Then delete the data from the memory of the unit. After that change the capacity of RAM and load the data to the unit. |

# 15. ERROR MESSAGE TABLE

### Label Issue Mode

| Message | Cause | Solution |
|---|---|---|
| DATA ENTRY ERROR | Error in key input. | Press the [C] key, and re-input the right data. |
| PLU NOT FOUND | The PLU # being called out is not registered. | Press the [C] key, and check the PLU #. |
| TOTALS OVERFLOW | GRAND TOTAL or PLU TOTAL memory has been exceeded at the time of issuing a label. | Press the [C] key, then the [ESC.] key and select 'RESET'.   Then sum up the exceeded memory. |
| MEMORY WILL BE FULLED | The machine judges the memory is full before designated number of media are printed in Batch mode. | Press the [C] key, then the [ESC.] key and select 'RESET'.   Then sum up the exceeded memory. |
| PLU DATA ERROR | Error in the PLU data. | Press the [C] key, and reprogram PLU data. |
| PRT FAILURE DETECTED | Printer trouble. Media end. | 1. Check that the label and print head are set correctly. 2. If the label home position is misaligned, press the [FEED] key. |
| LABEL OVER RUN | Label overruns. | Press the [FEED] key. |

### Report and Reset Mode

| Message | Cause | Solution |
|---|---|---|
| PLU NOT FOUND | Corresponding PLU # is not registered. | Press the [C] key, and enter the correct PLU #. |
| PRT FAILURE DETECTED | Printer trouble. | Same as in the label issue mode. |
| LABEL OVER RUN | Label overruns. | Press the [FEED] key. |

# 15. ERROR MESSAGE TABLE

## CMT Operation Mode

| Message | Cause | Solution |
|---|---|---|
| MISMATCH SCALE SPEC | Mismatch of the model type. | Press the CLEAR key |
|  | Mismatch of the base unit. |  |
|  | Mismatch of the VERSION. |  |
|  | Mismatch of the TRANSMITTING DATA. |  |
|  | Mismatch of the scale capacity. |  |
| BAD TAPE OR CMT | Parity error | Press the CLEAR key |
|  | Framing error |  |
|  | Overrun error |  |
|  | Data error |  |
|  | Two or More Hardware error |  |
| TIME OUT ERROR | Time out error | Press the CLEAR key. |

## LON System Mode

| Message | Cause | Solution | M | BM/S |
|---|---|---|---|---|
| COMMUNICATION ERROR | 1. The power of the master or backup master scale is not turned ON. They are not connected with each other or in off-line state. 2. LON cable is broken. | 1. Turn the power of the master or backup master scale ON. Connect them with each other or turn the scale in-line. 2. Call your authorized service representative. |  |  |
| SEQUENCE ERROR | The power was not turned OFF and ON again after setting ID #. | Turn the power switch OFF and ON again. |  |  |
| SEQUENCE NO. ERROR | Text data number is incorrect. | Call your authorized service representative. |  |  |
| MASTER BUSY | Registration job is performed on a satellite scale while reset job is performed on the master scale. | 1. Quit reset job on the master scale. 2. Quit registration job on the satellite scale. |  |  |
| BACKUP MASTER NOT RESET | The backup master does not have same PLU with the master scale. | Down load PLU from the master to the backup master scale. Then run the reset operation again. |  |  |
| TEXT ERROR ## | 1. Error text is found. 02: Sequence No. error 05: LRC error 08: Text error 09: Command error 2. The master scale differs from other scale in ROM version. | Call your authorized service representative. |  |  |

M: Master scale   BM: Backup master scale   S: Satellite scale

15- 3

# 16. CLEANING THE PRINT HEAD

| WARNING! |
| --- |
| *Care must be taken not to injure your fingers with the label cutter during installing, removing or cleaning it.* |

If the print head is dirty, printing will not be clear. The print head should be cleared with a print head cleaner everyday before use, according to the following procedure:
1. Open the printer cover and turn the head-up lever to the anticlock wise.   (See page 8-1)
2. Clean the print head element with the print head cleaner.
*NOTE:  Be careful not to damage the print head when cleaning.*



Print Head Cleaner

Print Head Element
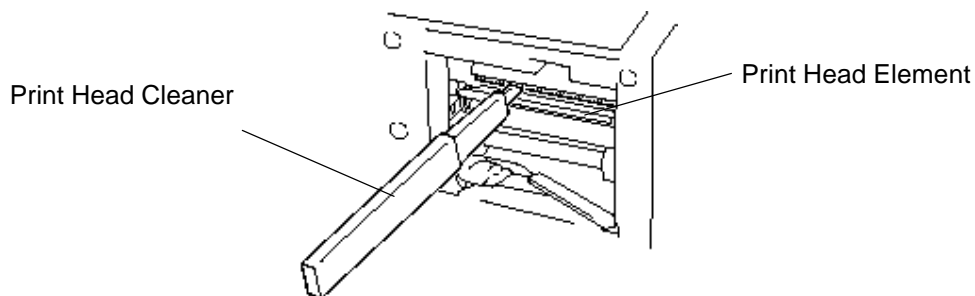
3. If any label paste is found on the label cutter, wipe off the paste with alcohol.

After removing the label cutter, reattach it using the following procedure.

1. Remove the receipt/label from the scale.
2. Install the label cutter, aligning the cutter notches with the screw holes.
3. Secure the cutter with the screws (FL-3× 6) so the bottom of the cutter is 0.5   0.8 mm above the peel-off plate.



Screw (FL-3x6)

Screw (FL-3x6)

Clearance
0.5   0.8 mm

Strip Plate

Label Cutter
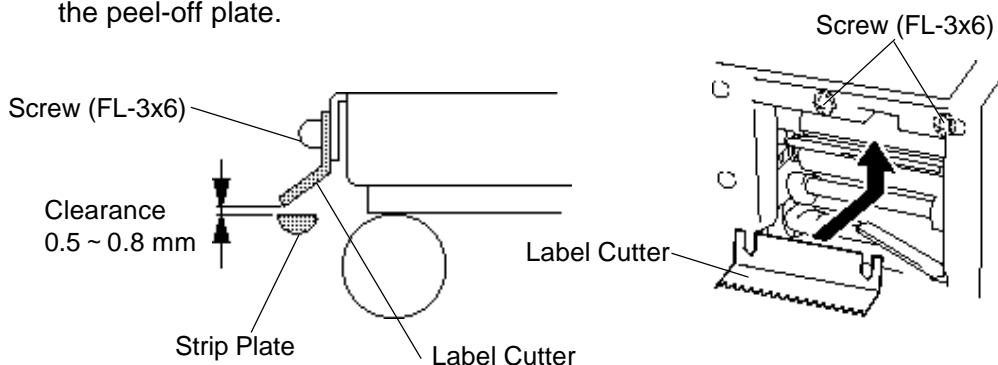
Label Cutter

*NOTES:*
*1. If the cutter is scratching labels during printing, increase the clearance between the cutter and the peel-off plate.*
*2. When the cutter is stained with glue or paper dust, clean it with a cotton swab moistened with alcohol.*

# 17.  TROUBLESHOOTING

| Problems | Solution |
|---|---|
| " – – – – –"   is displayed at power on. | Was the power turned ON when something was on the platter?<br>　　　Make sure nothing is on the platter and turn the power on again.<br>Is the platter mounted correctly?<br>　　　Mount the platter correctly and turn the power on again. |
| Display unstable. | Is anything touching the platter?<br>　　　If so, remove it.<br>Is the machine in a windy location?<br>　　　Avoid locations subject to the wind. |
| No print. | 1.  Check that the media is loaded correctly.<br>2.  Check whether the print head is set correctly or not. |
| Dots missing in the print. | Dirty print head.　　　Clean the print head.<br>Call your Authorized Service representative if necessary. |
| Unclear (or blurred) printing. | 1.  Dirty print head.　　　Clean the print head.<br>2.  Poor media quality.　　　Change media type. |
| Power does not come on. | 1.  Plug power cord into an AC socket.<br>2.  Check the circuit breakers or fuses.<br>3.  Plug another appliance into the AC socket to check if there is power supplied.<br>Call your Authorized Service representative if necessary. |
| You see a raised nap where the media has been cut. | 1.  Clean the cutter blades.<br>2.  The blades are worn.　　　Call your Authorized Service representative. |

## Before You Call for Service

It is our primary concern to give you full satisfaction and better service. If, however, any problem arises in connection with the operation of this scale, please check the following points before calling for service:

A) Is the power plug fully plugged into an AC outlet?
B) Is the power turned ON?
C) Is AC power being properly supplied to the outlet? (Check it using another electric appliance.)
D) Check the circuit breaker.
E) Has there been a power failure of any sort?
F) Has the operation been carried out in the correct order?

| WARNING! |
|---|
| *This scale has been manufactured under strict quality control. If you have any trouble, however, DO NOT ATTEMPT TO FIX IT BY YOURSELF. Pull the power plug out of the outlet, and contact your Authorized Service representative.* |

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