REV. 2.0

INSTALLATION, PROGRAMMING

AND

OPERATIONS MANUAL

FOR THE

LP-SERIES, PRINTING SCALE
(VER. 1.5)

TABLE OF CONTENTS

SECTION III OPERATING THE LP-SERIES SCALE

SECTION IV MAINTENANCE OF THE LP-SERIES PRINTING SCALE

SECTION I

INSTALLATION

OF THE

LP – SERIES

PRINTING SCALE

NOTICE TO INSTALLER

Refer to Calibration Procedure for the Following:

1. Change the External Resolution.
2. Enable / Disable the Multiple Range Operation.
3. Change the Capacity.
4. Change the position of the decimal point.
5. Change the unit weight for calculating the price.
6. Select Lbs. or Kg mode.
7. Change the language option to print.
8. Set functions based on the regulation of each country.

If problems are encountered in making any of these changes, contact your DEALER.

CAUTION:

Scale uses a rechargeable battery to retain programmed information. This battery must be charged before the scale is turned off or the information that was programmed in may be lost. It takes approximately 2 days to fully charge battery. Battery will remain fully charged even if scale is used intermittently. Once fully charged, battery will retain programmed information for up to 6 months with power turned off. The first time scale is used, to insure not loosing information programmed in, do one of the followings:

LEAVE POWER TO SCALE ON AT LEAST 2 DAYS BEFORE PROGRAMMING

OR

DO NOT TURN OFF POWER FOR AT LEAST 2 DAY AFTER PROGRAMMING SCALE

1.0 Installation Instructions:

1.1 Open packing case and remove contents consisting of the followings;

    A. Scale base with label roll installed.
    B. Platform
    C. 5 1/4″ diskette containing program for inputting PLU information
    D. Cable for connecting PC to scale.

    Note: Item C and D above are optional.

1.2 Install platform by inserting the four pins on it's back into the four holes in the round rubber supports mounted on the top of the scale base. Apply firm pressure evenly on the top of the platform, rocking it gently to seat it completely.

1.3 Place the scale on the surface on which it will be installed and level the scale by rotating the adjuster knobs attached to the four legs of the scale while observing the bubble level. This level may be observed though a small hole in the label printer cover. The scale is level when the bubble appears in the center of the black ring. The adjuster knobs can be reached by reaching under the edges of the scale.

1.4 Plug the scale power cord into a AC outlet.

1.5 Switch on the power to the scale with the power switch mounted the left side of the scale. The scale will beep and go through a self test during which it will sequentially display all of the digits from 1 thru 9 in all display position.

1.6 Place the **PGM, REG, ACC** switch in the **REG** position.

1.7 Place the **PGM, REG, ACC** switch in the **PGM** position.
The scale is now set up and ready to be programmed.

SECTION   II

PROGRAMMING   INFORMATION

OF   THE

LP – SERIES

PRINTING SCALE

2.0   Information Related to Scale Programming:

This section is devoted to presenting the general concepts and defining the terms related to programming the **LP-SERIES**, Printing Scale. It should be read carefully prior to attempting to program the scale. It should also be used as a source of information, in the future when questions arise.

2.1   Four Programming Categories

A. Those entries which affect the **PLU** (Price Look Up) of each item in the system uniquely and thus affect what is printed on each label. These consist of such items as **PLU CODE, ITEM CODE, COMMODITY NAME, MESSAGE NUMBER, UNIT PRICE, SHELF LIFE, PROGRAM TARE** and **GROUP CODE**.

B. Entry of **PRESET** key informations.

C. Entry of **MESSAGE** informations which are called by **PLU**.

D. Those entries which affect all labels printed equally. These consist of the setting of **Text** which is to appear at the Top and Bottom of all labels, **DATE, of TIME, of DEPARTMENT CODE**, of **LABEL FORMAT**, of Adjustment of Printing Position for labels, of informations to be printed on the label and of the Range that makes the label to be printed out in **AUTO** Print Mode.

2.2   Description of Items Common to All Labels

A.   Text For Non PLU Item at Top of Label (HEAd)

If you make a Non PLU item sale label with the unit price using Numeric Key, you need a special message for the item name. The one line message to be printed at the top of label is designed for this purpose. It is called as **HEADER**.

B.   Text For Message at Bottom of Label (SHoP)

If you have selected label format types without preprinted shop address, you may enter a two line message of up to 28 characters per line, which will appear at the bottom of each label printed. The message often entered is the address and telephone number of the shop where the scale is being used but can be any information you wish to enter.

C.   DEPARTMENT CODE Setting (dPtno)

The **DEPARTMENT** Code designation appears as the first two digits on the barcode if one is used. It can be used to identify the department in which the sale was made with the Printing Scale.

D.   LABEL FORMAT Setting (LAbEL)

The **LP-SERIES** offers 3 types of **LABEL FORMAT** from which you must choose one. These are shown in FIGURE 2-1, 2-2, and 2-3. They offer the following options:

CAS

STYLE A THERMAL LABELS


```
                        58
   COMMODITY NAME 1
   COMMODITY NAME 2

PACKED ON | SELL BY | WEIGHT | UNIT PRICE | TOTAL PRICE
        SHOP ADDRESS(2 ROW. 28 COLUMN)
   12        9         9         12      1
```

```
                        58
   COMMODITY NAME 1
   COMMODITY NAME 2

   MESSAGE

PACKED ON | SELL BY | WEIGHT | UNIT PRICE | TOTAL PRICE
        SHOP ADDRESS(2 ROW. 28 COLUMN)
   12        9         9         12      1
```
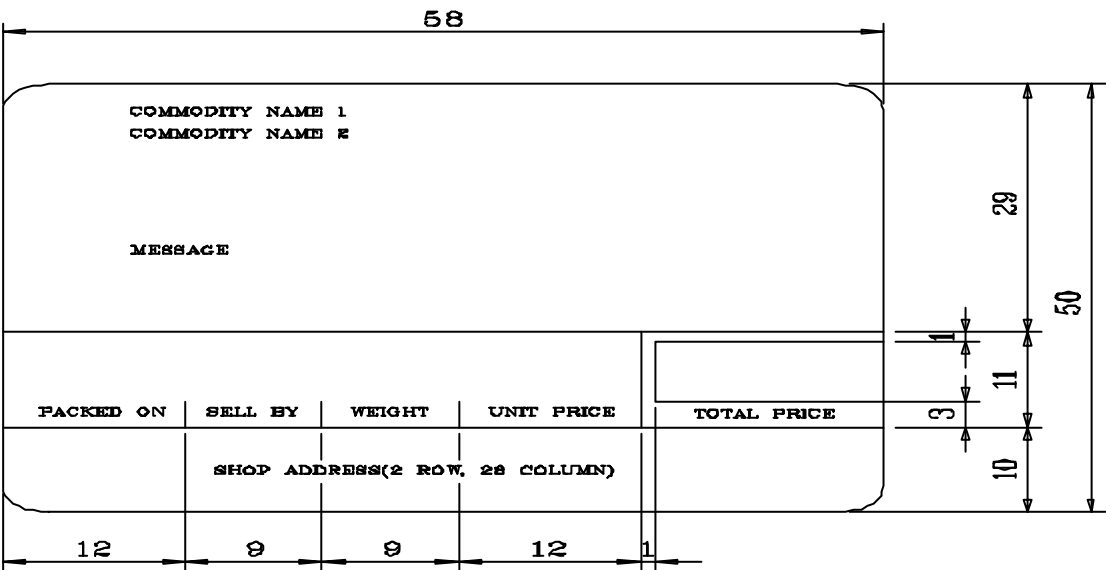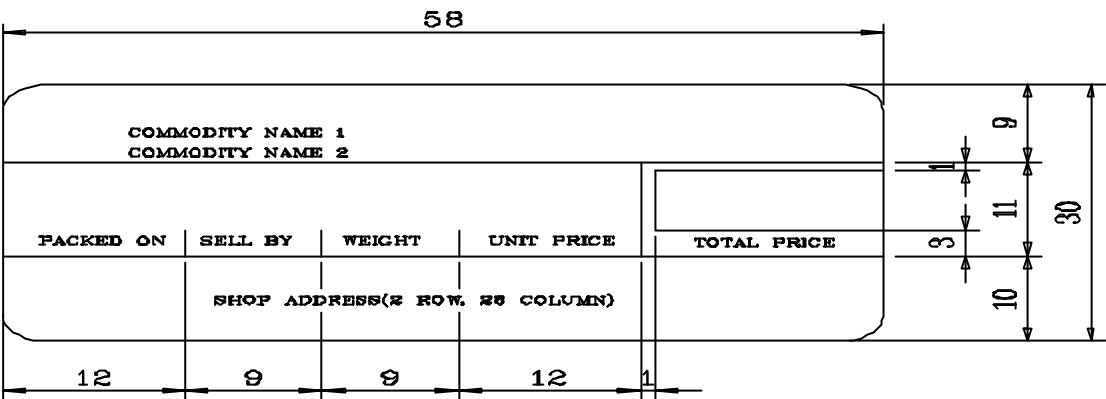
UNITS : mm

FIGURE 2-1

CAS

STYLE B THERMAL LABELS
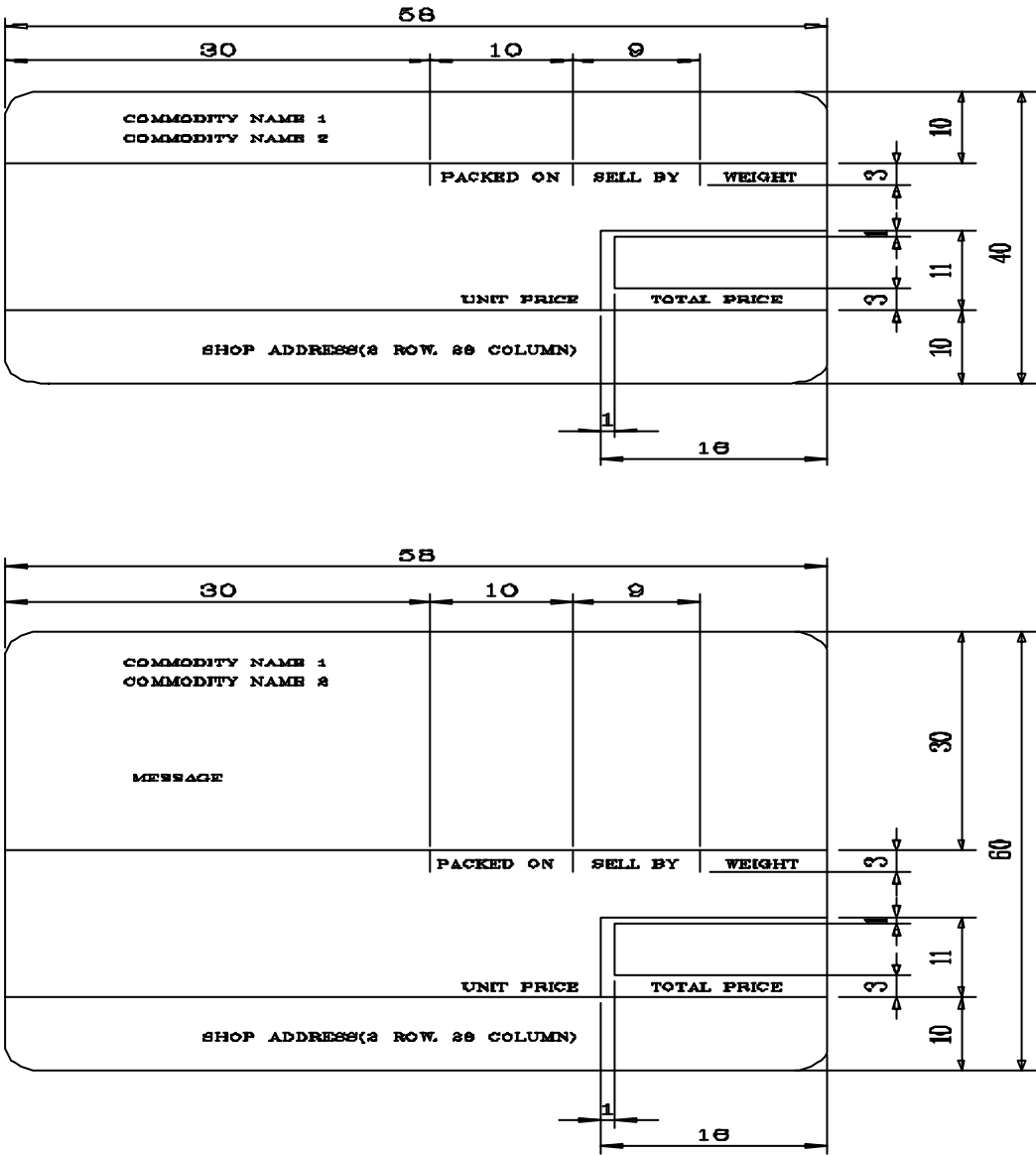
FIGURE 2-2

CAS

STYLE C THERMAL LABELS

	58				
COMMODITY NAME 1					
COMMODITY NAME 2					
				TOTAL PRICE	
PACKED ON	SELL BY	WEIGHT	UNIT PRICE		
SHOP ADDRESS(2 ROW, 28 COLUMN)					
12	9	9	12	1	

	58				
COMMODITY NAME 1					
COMMODITY NAME 2					
MESSAGE					
				TOTAL PRICE	
PACKED ON	SELL BY	WEIGHT	UNIT PRICE		
SHOP ADDRESS(2 ROW 28 COLUMN)					
12	9	9	12	1	
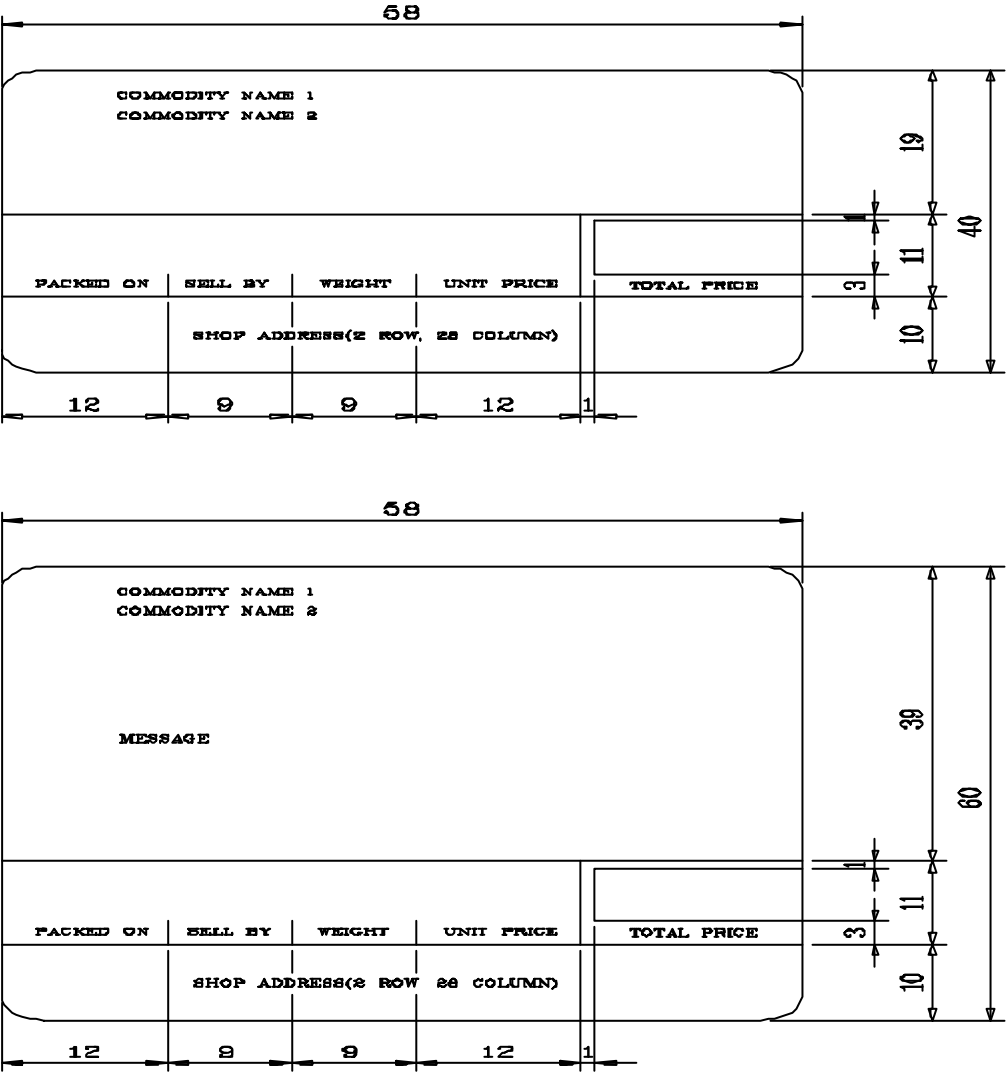
UNITS : mm

FIGURE 2-3

a. Barcode Format or no Barcode
b. Either one line of double height letters or two lines of single height letters for printing Item Name of PLU.
c. Either a preprinted message printed by the label manufacturer or a message at the bottom printed by the Printing Scale.
d. Message for Item or no message.

If the correct label is not used with the corresponding format setting, the printed label will not be printed or feeded correctly.

E. DATE and TIME Setting (dAtE, timE)

The date and time are entered once during initialization and will be automatically updated and retained in the scale even if power to the scale is turned off or the scale is disconnected from the AC outlet.

F. Printing Position Adjustment Setting (AdJSt)

The scale provides for adjustment of exactly where the information on the label is printed by the printer. Normally this will be factory adjusted but, if for any reason the printing is not registered correctly on the label, it may be shifted up or down slightly by changing it from a normal setting of 13.
See Figure 2-4 below. The Unit of the value entered is mm.

Feeding Value = 11   Feeding Value = 13

FIGURE 2-4

G. Selecting Special Information Printing for Label (PmodE)

The **LP-SERIES** offers some special informations printing for user.
This function may enlarge the range of using scale. The user can print following informations on the label by setting PmodE.

a. Serial Number
b. Time on printting label
c. Packed on date
d. Sell by date
e. Recalled PLU Code Number
f. Include Department Code or Group Code in Barcode
g. Set the method that change the Unit Price of PLU in REG. mode.

3.0 Methods of Programming PLUs:

There are two methods available for programming **PLU**s into the scale. Of the two methods, B is preferable for the reason indicated the **NOTICE TO THE USER.**

A. Use of the keyboard on the scale as described below.

B. Use of a PC or CLONE connected to the Scale via RS232 cable (provided as an option). The PC program for entering the **PLU** information is supplied on a 3.5 inch diskette (provied as an option).

NOTICE TO THE USER CONCERNING USING A PC TO PROGRAM:

As has been mention above, it is preferable to enter the **PLU** information using a PC as opposed to entering it directly into the scale through it's own keyboard for the following reason:

a. When a PC is used, all the **PLU** information can be stored on disk and then downloaded to the scale. Therefore, if for any reason, the **PLU** information that has been downloaded to the scale is lost by the scale, it can be easily reloaded from the PC.

b. It is far easier to enter the data with a PC than through the keyboard on the scale. The PC program for entering data is more user friendly and allows the person programming to look at all of the data at once for a screen full of **PLU** information rather than just a portion of a single **PLU** function as is displayed on the scale.

c. Since the scale cannot truly display alpha characters nor hold them in the display when they are entered thru the keyboard, it is easy to make an undetected typing error which will ultimately show up as a misprint on the label for that **PLU**. Alpha characters which have been entered can be reviewed on the scale display but this is very cumbersome to do.

d. It takes far longer to enter the PLU information directly into the scale than it does to enter it with a PC. This becomes even more than one scale.

3.1 Description of Items Related to **PLUs**

A. PLU CODE Number (PLUno)

Each item sold can be assigned a **PLU** code. The **PLU CODE** is a number of 1 to 4 digits in length. The **LP-Series** provide for up to 200, 600, or 1000 such code according to model types. The user can use at least 200 codes as they wish to identify all of the items sold. Once the **PLU CODE** for an item has been entered into the scale, all of the **PLU** information can be easily retrieved for a specific **PLU CODE Number**.

B. ITEM CODE (iCodE)

This is a code of from one to six digits. If a barcode is used on the label it will carry this number, this number is often used for inventory control. Where there are 1000 or less items, it can simplify things considerably if the user makes the **PLU CODE** the same as Item Code. If a label without a barcode is used, the Item Code can be skipped.

C. COMMODITY NAME (nAmE)

This information is printed on the label in either regular height or double height letters. The text is normally used for the name of the item being sold such as ROAST BEEF and if two lines are used, another phase such as ON SCALE, SPECIAL, etc can be entered. Up to 28 characters can be entered on a line. The text can be in either capitals or lower case letters.

a. For Label Types, One line of double height printing, the first line of text can be printed.

b. For Label Types, Two lines of single height printing, the two lines of text can be printed.

c. Characters to be printed can be either capitals or lower case letters. Switching between these two is accomplished by depressing the **SHIFT** key on the keyboard. When capitals have been selected, a small triangle lights over the word **SHIFT** in the UNIT PRICE display. Once capitals have been selected all entries will continue to be capitalized until the **SHIFT** Key is again depressed and the triangle over the word **SHIFT** is extinguished.

D. MESSAGE NUMBER (MSGno)

This is a number of from 1 to 200. If the user wants to print the message for the item, the number of message corresponding to the item should be entered. If not, enter 0 in the number. The messages are entered in the entry, **MSG**.

E. UNIT PRICE (PriCE)

The **UNIT PRICE** is the price per unit weight to be charged for an item. Though it is possible to key up to six digits for **UNIT PRICE** and the largest **UNIT PRICE** the scale can use to caculate with is 999999. Therefore numbers greater than 999999 should not be entered.

The scale uses the unit price and the weight to calculate the price for the item sold, which is printed on the label.

F. SHELF LIFE (LiFE)

This is a number from 0 to 366. The number entered is used by the scale to calculate the **SELL BY** date printed on the label. This information is only used for perishable items which have a limited shelf life. If a label with no **SELL BY** date is required, a 0 is entered when the scale requests **SHELF LIFE** entry.

G. PROGRAM TARE WEIGHT (tArE)

If an item is normally sold prepackaged in a container, the weight of the container should be subtracted from the total weight. The weight of the container can be automatically subtracted from the total weight by entering it as **PROGRAM TARE**. Refer to the Specification for **PROGRAM TARE**. If this feature is not to be used, a 0 (zero) should be entered for **PROGRAM TARE**.

NOTICE: The PROGRAM TARE WEIGHT of PLU is not available in any countries.

H. GROUP CODE (GCodE)

The **GROUP CODE** is an additional number (one to two digits) which may be entered on per a **PLU** basis. It may be used to group various items for tracking purposes. This number appears in the left side of the Price on the label. If no **GROUP CODE** is required, a 0 should be entered when the scale requests the **GCodE** information. And if you want to replace **DEPARTMENT CODE** with **GROUP CODE** of **PLU** in Barcode, see 6.7.3.

4.0 Entry of PRESET KEY Information:

This relates directly to the **PLU** code for an item. Each item in the system is given a **PLU**(Price Look Up) code. The scale allows for the entering of four-digit unique **PLU** codes. This means that, during a sale, if the proper code has been previously entered, the information for any one these previously entered **PLU**s can be retrieved and used as the basis for calculating the total cost of the item sold and generating a label for it.

In many retail businesses, the majority of items sold day after day, represent a small portion of all of the items carried for scale. In this system it is possible to assign 54 **PLU** codes of the possible codes to the items sold most often. Once so assigned, these numbers from 1 to 54 relate to the numbers printed in a circle in the lower left of keys on the large keyboard. Therefore depressing one of these 54 keys recalls the previously stored **PLU** informtion for this item. The remaining **PLU**s can be recalled as well but require two or more key strokes to recall them.

5.0 Keys and Their Function:

The scale contains two types of key switches. There are two, 3 position, slide switches. The remaining switches are pushbutton switches. Whenever one of the pushbutton switches is depressed the scale will beep.

A.   PGM, REG, ACC (Three position slide switch mounted below Keypad)

    a. **PGM** position is used when functions of scale are programmed.

    b. **REG** position is used for normal weighing operation.

    c. **ACC** position is used when Sales Reports are generated.

B. STOP, MANUAL, AUTO and PRT/* (Three position slide switch mounted next to PGM, REG, ACC switch)

    a. **STOP** position is used when the scale is to be used without printing. This position prevents printing even if the **PRT/*** key is depressed.

    b. When in the **MANUAL** position, the **PRT/*** key must be depressed in order for a label to be printed.

    c. In **AUTO** position, a label will be automatically printed after the item has been weighed and a **PLU** or **PRESET** has been selected.

C. Alpha and SPACE/PRESET Keys

    a. When is in **PGM, REG, ACC** switch is in **PGM** mode, these keys are used to program such items as the **SHoP** etc. The space key is used to insert spaces between in text being entered. Each space counts as a character.

    b. When in **REG** position, the 54 keys become the **PRESET** keys.

D. Numeric Keys (0 thru 9)

These keys are used to enter the number information.

E. C (Clear Key)

This key is used to clear a previous entry.

F. SHIFT Key

This key allows for switching between capitals and lower case letters. It is used during programming in conjunction with Alpha keypad. When the Alpha (large) keyboard is in the capitalize mode, a small triangle over **SHIFT** in the **UNIT PRICE** window will be lit. Pressing the SHIFT key again will take the keyboard out of the capitalize mode and triangle will be extinguished.

G. ZERO

In the event that, with no weight on the scale, the scale drifts from zero for any reason, depressing the **ZERO** key will rezero the scale. This key is only used when the **PGM, REG, ACC** switch is in the **REG** mode.

H. TARE

In the **REG** mode, this key allows for entering a tare value for an item being weighed. The weight entered for the tare is subtracted from the total weight, when the price of the item is calculated.

I. DATE/TIME

In the **REG** mode, pressing the **DATE/TIME** switch will cause the displays to display the date and time at that moment. If it is found to be incorrect, it must be reset in the **PGM** mode.

J. FEED

The **FEED** key will cause the printer to feed blank labels whenever is depressed twice. This switch is used when a new roll of labels is installed and the user wants to check that they are feeding correctly.

K. SAVE

The **SAVE** key is used in the **REG** mode to save the tare and price. These values are saved and used to generate labels when packaging multiple items with the same tare and same unit price.

L. ✕

The ✕ key allows the user to print multiple labels with the same information. To use it, the user presses a **PRESET** key or enters a **PLU** number, puts the respective item on the scale, presses the ✕ key and a number key such as 3. The scale then generates 3 labels with the same information for the item that was weighed or had fixed-price.

M. +

The + key is used in the **REG** mode to add several transactions and print Total Price for them. To use it, the user presses the + key instead of pressing **PRT/∗** key, after each transaction. Whenever depressed the + key, a label for the transaction is issued. After all the transaction have been performed, press **PRT/∗** key. The printer then will issue the label with the Total Price as the result for all the transaction.

NOTICE: The + Key does not work legally in any country's version.

N. PLU

The **PLU** key is used in the **PGM** mode (see Section 7) and in the **REG** mode to select a previously stored **PLU** for an item being weighed.

O. ENTER

The **ENTER** key is used in conjunction with the entry of the **SHoP** information. After the first line of up to 28 characters are entered, the a **ENTER** key is depressed once. Then the next line of up to 28 characters of information for **SHoP** can be entered. This key is used in entering **COMMODITY NAME** of **PLU** and **MESSAGE** information too.

P. UP-ARROW and DOWN-ARROW Keys

The **UP-ARROW** and **DOWN-ARROW** keys can be used during programming to move between items to be programmed. They are helpful, during the programming, if you wish to change something that you previously programmed. They can only be used when the only window displaying anything is the **WEIGHT** window. At any other time these keys are locked out. For example, if you had programmed the **LABEL FORMAT TYPE** and were now set to program time per Section 6.6.1 and decided you would like to reprogram the **HEADER** information over again, you could reach it by depressing the **UP-ARROW** Key two times.

Q. FOR

The **FOR** key is used in when printing "Price Only" labels for items which are sold at one price for a quantity.

R. COR

The **COR** key is used for cancel the account data that resulted from printing label. You can delete the account data right after printing label. The **COR** Key can be used during adding transactions.

S. PAY

The **PAY** key is used to calculate **CHANGE** after adding several transactions.

NOTICE: The PAY Key does not work legally in any country's version.

6.0 Programming Information Common to All LABELS:

6.1 Set-Up for Programming

A. Place the **PGM, REG, ACC** switch in the **PGM** position.

```
┌────────────────────────┐  ┌────────────────────────┐   ┌────────────────────────┐
│ HEIGHT                 │  │ UNIT PRICE             │   │ TOTAL PRICE            │
│  ┌──────────────────┐  │  │  ┌──────────────────┐  │   │  ┌──────────────────┐  │
│  │ P LU             │  │  │  │                  │  │   │  │                  │  │
│  └──────────────────┘  │  │  └──────────────────┘  │   │  └──────────────────┘  │
│   ZERO        TARE     │  │   SAVE   AUTO   SHIFT  │   │                        │
└────────────────────────┘  └────────────────────────┘   └────────────────────────┘
```

6.2 To Program **HEADER FOR NON-PLU,** do the following

1. Press down-arrow key on large keyboard two or three times until **HEAd** appears in **WEIGHT** display.

```
    Press      Press      Press     (Press)
      ↓          ↓          ↓       ‹ ↓ ›

┌────────────────────────┐  ┌────────────────────────┐   ┌────────────────────────┐
│ HEIGHT                 │  │ UNIT PRICE             │   │ TOTAL PRICE            │
│  ┌──────────────────┐  │  │  ┌──────────────────┐  │   │  ┌──────────────────┐  │
│  │ HEAd             │  │  │  │                  │  │   │  │                  │  │
│  └──────────────────┘  │  │  └──────────────────┘  │   │  └──────────────────┘  │
│   ZERO        TARE     │  │   SAVE   AUTO   SHIFT  │   │                        │
└────────────────────────┘  └────────────────────────┘   └────────────────────────┘
```

```
   Press    ┌────────────────────────┐  ┌────────────────────────┐   ┌────────────────────────┐
  ┌──────┐  │ HEIGHT                 │  │ UNIT PRICE             │   │ TOTAL PRICE            │
2.│PRT/☼ │  │  ┌──────────────────┐  │  │  ┌──────────────────┐  │   │  ┌──────────────────┐  │
  └──────┘  │  │ B  Hd            │  │  │  │ 01.01            │  │   │  │                  │  │
            │  └──────────────────┘  │  │  └──────────────────┘  │   │  └──────────────────┘  │
            │   ZERO        TARE     │  │   SAVE   AUTO   SHIFT  │   │                        │
            └────────────────────────┘  └────────────────────────┘   └────────────────────────┘
```
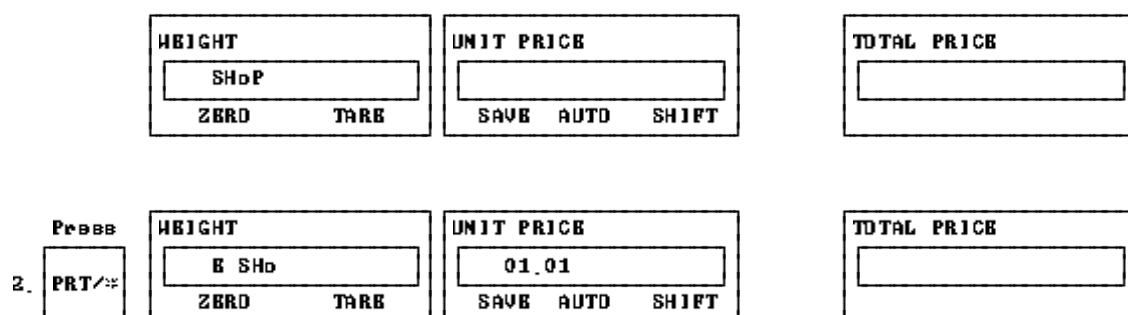
Notes concerning entering **HEADER FOR NON-PLU ITEM** information

a. Enter up to 28 characters for the **HEADER** information.

b. To capitalize, observe the **UNIT PRICE** display just above the word **SHIFT.** If a small triangle is lit, the scale is in the capitalize mode. If not, depress **SHIFT** key once. Each time the **SHIFT** key is depressed once the scale will switch into and out of the capitalize mode.

c. The **TOTAL PRICE** display window displays the characters that has been entered when the key is depressed. It also can be used to review the characters that have been entered previously by using the right and left arrow key on the keyboard. The **UNIT PRICE** display will show the number of the character that is being displayed.

d. Observe the **UNIT PRICE** display. The 01 before the decimal point indicates that this is the first line of **SHOP** information being entered. The two numbers after the decimal point display the number of the character out of a total of 28 that has been entered or is being displayed in the **TOTAL PRICE** display. The characters that can not be displayed will appear in the shape of _.

e. After the **HEAD** information has been entered with the large keyboard, press **PRT/*** key and proceed to Section 6.3.1.

6.3 To Program **SHOP ADDRESS**, do the following

6.3.1 Key in the first line of **SHOP ADDRESS** of up to 28 characters

HEIGHT		UNIT PRICE		TOTAL PRICE	
SHoP					
ZERO	TARE	SAVE AUTO SHIFT			

Press

2. PRT/*

HEIGHT		UNIT PRICE		TOTAL PRICE	
E SHo		01.01			
ZERO	TARE	SAVE AUTO SHIFT			

Notes concerning entering **SHOP ADDRESS** information

a. **SHOP ADDRESS** information applies only to **LABEL FORMAT TYPES** where no information was preprinted at the bottom of the label. If you are not using one of these types, you do not need to program this information.

b. Though this area of the label can be used for the name and telephone number of your shop, it can be used for any other message you wish. The message can be 2 lines of up to 28 characters each.

c. To capitalize, observe the **UNIT PRICE** display just above the word **SHIFT**. If a small triangle is lit, the scale is in the capitalize mode. If not, depress **SHIFT** key once. Each time the **SHIFT** key is depressed once the scale will switch into and out of the capitalize mode.

d. The **TOTAL PRICE** display window displays the characters that has been entered when the key is depressed. It also can be used to review the characters that have been entered previously by using the right and left arrow key on the keyboard. The **UNIT PRICE** display will show the number of the character that is being displayed.

e. Observe the **UNIT PRICE** display. The 01 before the decimal point indicates that this is the first line of **SHOP** information being entered. The two numbers after the decimal point display the number of the character out of a total of 28 that has been entered or is being displayed in the **TOTAL PRICE** display. The characters that can not be displayed will appear in the shape of _.

f. After the first line of the **SHOP** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the second line of information. If you do not require the second line, press the **PRT/*** and continue on to Section 6.3.2.

Press

```
ENTER
```

6.3.2 Key in the Second line of **SHOP ADDRESS** of up to 28 characters in same way as in Section 6.3.1.

HEIGHT		UNIT PRICE			TOTAL PRICE
E SHо		02.01			
ZERO	TARE	SAVE	AUTO	SHIFT	

a. After the second line of **HEADER** information has been entered with the large keyboard, press **PRT/*** key and proceed to Section 6.4.

6.4 To Program **DEPARTMENT NUMBER,** do the following

HEIGHT		UNIT PRICE			TOTAL PRICE
SEt					
ZERO	TARE	SAVE	AUTO	SHIFT	

Press	HEIGHT		UNIT PRICE			TOTAL PRICE
	SEt		EntEr			
1. PRT/*	ZERO	TARE	SAVE	AUTO	SHIFT	

Press	HEIGHT		UNIT PRICE			TOTAL PRICE
	SEt		EntEr			3
2. 3	ZERO	TARE	SAVE	AUTO	SHIFT	

Press	HEIGHT		UNIT PRICE			TOTAL PRICE
	dPtno		EntEr			
3. PRT/*	ZERO	TARE	SAVE	AUTO	SHIFT	

4. Enter one to two digits for **DEPARTMENT CODE;** For this example, we have entered No.2.

Press	HEIGHT		UNIT PRICE			TOTAL PRICE
	dPtno		EntEr			2
2	ZERO	TARE	SAVE	AUTO	SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
PRT/*	SEt		
	ZERO TARE	SAVE AUTO SHIFT	

6.5 To Program **LABEL FORMAT TYPE**, do the following

The four digit value (D1D2D3D4) entered in this entry represents six functions according to each digit number.

6.5.1 To Select the **LABEL STYLE (D1)** :

See FIGURE 2-1, 2-2 and 2-3.

Entered value	LABEL STYLE
1	A
2	B
3	C

6.5.2 To Select the **PLU Item Description Format (D2)** :

Entered value	PLU Item Description Format
1	Print only the first line of Item name in double height.
2	Print two lies of Item name in sigle height.
3	Print the first line of Item name in double height and Message.
4	Print two lines of Item name in single height and Message.

6.5.3 To Select **Shop Address Printing Method** and **Preprinted Advertisement Message Printing (D3)** :

You can use the additional 20mm-height Preprinted Advertizing Message under Shop Address Printing Area.

Entered value	CONTENT
1	Use Preprinted Shop Address and no Advertizing Message.
2	Use Scale-printing Shop Address and no Advertizing Message.
3	Use Preprinted Shop Address and Advertizing Message.
4	Use Scale-printing Shop Address and Advertizing Message.

6.5.4 To Select **Barcode Format (D4)** :

The table below shows the makeup of the 8 possible barcode formats, one of which may be entered with the numeric keypad. The number entered will appear on D4 digit in the **TOTAL PRICE** window.

Entered value	Barcode Element Definition (for UPC, EAN, JAN, KAN Codes)												# of Digits in Price
0	NO BARCODE												
1	D1	D2	I1	I2	I3	I4	I5	PC	P1	P2	P3	P4	C	4
2	D1	D2	I1	I2	I3	I4	PC	P1	P2	P3	P4	P5	C	5
3	D1	D2	I1	I2	I3	I4	I5	I6	P1	P2	P3	P4	C	4
4	D1	D2	I1	I2	I3	I4	I5	P1	P2	P3	P4	P5	C	5
5	D1	D2	I1	I2	I3	I4	P1	P2	P3	P4	P5	P6	C	6
6	D1	D2	I1	I2	I3	P1	P2	P3	P4	P5	P6	P7	C	7
7	D1	D2	I1	I2	I3	I4	I5	W1	W2	W3	W4	W5	C	
8	D1	D2	I1	I2	I3	I4	I5	I6	W1	W2	W3	W4	C	
9	D1	D2	I1	I2	I3	I4	WC	W1	W2	W3	W4	W5	C	

D : Department Code Number or Group Code of PLU
I : Item Code Number of PLU
W : Weight
P : Price
PC : Check-Sum for Price
WC : Check-Sum for Weight
C : Check-Sum for all Characters

HEIGHT		UNIT PRICE			TOTAL PRICE
SEt					
ZERO	TARE	SAVE	AUTO	SHIFT	

Press	HEIGHT		UNIT PRICE			TOTAL PRICE
1. PRT/※	**SEt**		**EntEr**			
	ZERO	TARE	SAVE	AUTO	SHIFT	

2. Press `4`

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt	EntEr	4
ZERO TARE	SAVE AUTO SHIFT	

3. Press `PRT/☼`

HEIGHT	UNIT PRICE	TOTAL PRICE
LAbEL	EntEr	2221
ZERO TARE	SAVE AUTO SHIFT	

4. For example, if the following **LABEL FORMAT** is needed, Enter 3321 with the numeric keypad.

Example) . Style C
     . Print 2 line Item Name and Message
     . Scale-Printed Shop Address and no Advertizing Message.
     . 5 digit Item Code and 4 digit Price with Check-Sum digit Barcode

Press `3` Press `3` Press `2` Press `1`

HEIGHT	UNIT PRICE	TOTAL PRICE
dPt no	EntEr	3321
ZERO TARE	SAVE AUTO SHIFT	

Press `PRT/☼`

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt		
ZERO TARE	SAVE AUTO SHIFT	

6.6 To Program **LABEL PRINTING POSITION ADJUSTMENT,** do the following

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt		
ZERO TARE	SAVE AUTO SHIFT	

1. Press `PRT/☼`

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt	EntEr	
ZERO TARE	SAVE AUTO SHIFT	

2. Press `5`

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt	EntEr	5
ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
3. PRT/＊	AdJSt ZBRO　　　TARE	EntBr SAVB　AUTO　SHIFT	13

4. Initially enter the number 13. If after a label has been printed, the printing is found to be mispositioned, reenter another value.(Higher to move printing up and lower to move it down). If the position appears to be incorrect, before any attempt is made to adjust the position, check that the blank label style is the correct one for the **LABEL FORMAT TYPE** you have selected.
For example, 1mm lower.

	Press	Press	
	1	2	

HEIGHT	UNIT PRICE	TOTAL PRICE
AdJSt ZBRO　　　TARE	EntBr SAVB　AUTO　SHIFT	12

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
PRT/＊	SBt ZBRO　　　TARE	 SAVB　AUTO　SHIFT	

6.7 To Program **SPECIAL INFORMATION PRINTING,** do the following

The four digit value (D1D2D3D4) entered in this entry represents fifteen functions according to each digit number.

6.7.1 To Select **Printing Serial Number and Time on printing (D1)** :

Entered value	CONTENT
1	Not print Serial No. and Time on printing
2	Print Serial No. and no Time on printing
3	Print Time on printing and no Serial No.
4	Print Serial No. and Time on printing

Note : **To reset Serial Number, after making a step 3 in section 13.2, enter 22757 and press PRT/＊ Key. Then Sn CLr will appear in UNIT PRICE display with beep sound.**

6.7.2 To Select **Printing PACKED ON DATE and SELL BY DATE (D2)** :

Entered value	CONTENT
1	Not print PACKED ON DATE and SELL BY DATE
2	Print PACKED ON DATE and no SELL BY DATE
3	Print SELL BY DATE and no PACKED ON DATE
4	Print PACKED ON DATE and SELL BY DATE

6.7.3 To Select **Printing PLU CODE NUMBER** and **Printing Department Code or Group Code of PLU on Barcode (D3)** :

Entered value	CONTENT
1	Not print PLU CODE No. and print Department Code on Barcode.
2	Print PLU CODE No. over Price Printing Position and Department Code on 1st and 2nd digit of Barcode.
3	Not print PLU CODE no. and print Group Code of PLU on Barcode.
4	Print PLU CODE No. over Price Printing Position and Group Code of PLU on 1st and 2nd digit of Barcode.

6.7.4 To Select **Changing UNIT PRICE of PLU in REG. mode (D4)** :

Entered value	CONTENT
1	Impossible to change UNIT PRICE of PLU in REG. mode.
2	Be changed temporarilry on printing label after calling PLU and entering new UNIT PRICE.
3	Be changed permanently on printing label right after calling PLU and entering new UNIT PRICE.

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt		
ZERO TARE	SAVE AUTO SHIFT	

Press

1. PRT/*

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt	EntEr	
ZERO TARE	SAVE AUTO SHIFT	

Press

2. 6

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt	EntEr	6
ZERO TARE	SAVE AUTO SHIFT	

Press

3. PRT/*

HEIGHT	UNIT PRICE	TOTAL PRICE
PnodE	EntEr	1411
ZERO TARE	SAVE AUTO SHIFT	

4. For example, if the following **FORMAT** is needed, enter 3321 with the numeric keypad.

Example) . Print Serial Number and Time on printing.
. Print PACKED ON DATE only.
. Print PLU CODE Number and print Department Code on barcode.
. Change UNIT PRICE of PLU permanently after issuing label.

Press Press Press Press

  [4]   [4]   [2]   [3]

HEIGHT	UNIT PRICE	TOTAL PRICE
PnodE	EntEr	3321
ZERO TARE	SAVE AUTO SHIFT	

Press

PRT/*

HEIGHT	UNIT PRICE	TOTAL PRICE
SEt		
ZERO TARE	SAVE AUTO SHIFT	

6.8 To Program **Weight Variation Range** that allows to print label in AUTO Print Mode, do the following

Weight Variation Range means difference, that makes next printing enable, between weight of this time and that of the next time.
For example, if Weight Variation Range was set to 5g and printing label had 450g, the weight with differnce over 5g, below 445g or over 455g, can make the next label to be printed.

The minimum value is the Interval of the scale and the maximum value is the maximum capacity.

Note : **If your scale is set by OIML Regulation, the value entered in this entry is ignored and the scale prints out labels with the weights over Minimum weight that is defined by OIML.**

	WEIGHT	UNIT PRICE	TOTAL PRICE
	SEt		
	ZERO TARE	SAVE AUTO SHIFT	

		WEIGHT	UNIT PRICE	TOTAL PRICE
Press		WEIGHT	UNIT PRICE	TOTAL PRICE
1.	PRT/※	SEt	EntEr	
		ZERO TARE	SAVE AUTO SHIFT	

Press		WEIGHT	UNIT PRICE	TOTAL PRICE
2.	7	SEt	EntEr	7
		ZERO TARE	SAVE AUTO SHIFT	

Press		WEIGHT	UNIT PRICE	TOTAL PRICE
3.	PRT/※	AUtoP	EntEr	15.000
		ZERO TARE	SAVE AUTO SHIFT	

Press

4. | 5 |

	WEIGHT	UNIT PRICE	TOTAL PRICE
	AUtoP	EntEr	0.005
	ZERO TARE	SAVE AUTO SHIFT	

Press		WEIGHT	UNIT PRICE	TOTAL PRICE
	PRT/※	SEt		
		ZERO TARE	SAVE AUTO SHIFT	

6.9 To Program the **DATE** as follows

```
┌─────────────────────┐   ┌─────────────────────────┐   ┌─────────────────────┐
│ HEIGHT              │   │ UNIT PRICE              │   │ TOTAL PRICE         │
│  ┌───────────────┐  │   │  ┌───────────────────┐  │   │  ┌───────────────┐  │
│  │      SEt      │  │   │  │                   │  │   │  │               │  │
│  └───────────────┘  │   │  └───────────────────┘  │   │  └───────────────┘  │
│  ZERO        TARE   │   │  SAVE   AUTO    SHIFT   │   │                     │
└─────────────────────┘   └─────────────────────────┘   └─────────────────────┘
```

```
            Press   ┌─────────────────────┐   ┌─────────────────────────┐   ┌─────────────────────┐
                    │ HEIGHT              │   │ UNIT PRICE              │   │ TOTAL PRICE         │
         ┌───────┐  │  ┌───────────────┐  │   │  ┌───────────────────┐  │   │  ┌───────────────┐  │
  1.     │ PRT/☼ │  │  │      SEt      │  │   │  │      EntEr        │  │   │  │               │  │
         └───────┘  │  └───────────────┘  │   │  └───────────────────┘  │   │  └───────────────┘  │
                    │  ZERO        TARE   │   │  SAVE   AUTO    SHIFT   │   │                     │
                    └─────────────────────┘   └─────────────────────────┘   └─────────────────────┘
```

```
            Press   ┌─────────────────────┐   ┌─────────────────────────┐   ┌─────────────────────┐
                    │ HEIGHT              │   │ UNIT PRICE              │   │ TOTAL PRICE         │
         ┌───────┐  │  ┌───────────────┐  │   │  ┌───────────────────┐  │   │  ┌───────────────┐  │
  2.     │   1   │  │  │      SEt      │  │   │  │      EntEr        │  │   │  │             1 │  │
         └───────┘  │  └───────────────┘  │   │  └───────────────────┘  │   │  └───────────────┘  │
                    │  ZERO        TARE   │   │  SAVE   AUTO    SHIFT   │   │                     │
                    └─────────────────────┘   └─────────────────────────┘   └─────────────────────┘
```

```
            Press   ┌─────────────────────┐   ┌─────────────────────────┐   ┌─────────────────────┐
                    │ HEIGHT              │   │ UNIT PRICE              │   │ TOTAL PRICE         │
         ┌───────┐  │  ┌───────────────┐  │   │  ┌───────────────────┐  │   │  ┌───────────────┐  │
  3.     │ PRT/☼ │  │  │     dAtE      │  │   │  │      EntEr        │  │   │  │     23.07.84  │  │
         └───────┘  │  └───────────────┘  │   │  └───────────────────┘  │   │  └───────────────┘  │
                    │  ZERO        TARE   │   │  SAVE   AUTO    SHIFT   │   │                     │
                    └─────────────────────┘   └─────────────────────────┘   └─────────────────────┘
```

4. The **DATE** is normally preset at the factory and will remain correct from then on. If this is the case, nothing is necessary. Let's assume that, for reason the date is incorrect and must be changed. Assume today's date is July 30, 1994. The following would be entered.

```
   Press   Press   Press   Press   Press   Press
  ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐ ┌─────┐
  │  3  │ │  0  │ │  0  │ │  7  │ │  B  │ │  4  │
  └─────┘ └─────┘ └─────┘ └─────┘ └─────┘ └─────┘
```

```
┌─────────────────────┐   ┌─────────────────────────┐   ┌─────────────────────┐
│ HEIGHT              │   │ UNIT PRICE              │   │ TOTAL PRICE         │
│  ┌───────────────┐  │   │  ┌───────────────────┐  │   │  ┌───────────────┐  │
│  │     dAtE      │  │   │  │      EntEr        │  │   │  │     30.07.84  │  │
│  └───────────────┘  │   │  └───────────────────┘  │   │  └───────────────┘  │
│  ZERO        TARE   │   │  SAVE   AUTO    SHIFT   │   │                     │
└─────────────────────┘   └─────────────────────────┘   └─────────────────────┘
```

6.10 To Program the **TIME** as follows

	Press	HEIGHT	UNIT PRICE	TOTAL PRICE
1.	PRT/☼	SEt ZERD TARE	EntEr SAVE AUTD SHIFT	
2.	2	SEt ZERD TARE	EntEr SAVE AUTD SHIFT	2
3.	PRT/☼	dAtE ZERD TARE	EntEr SAVE AUTD SHIFT	09.30.28

4. The **TIME OF DAY** is set in a similar manner as follows: Again we will assume it was incorrectly set at the factory and will reset it to 1: 05: 00 PM. The army time has to be used.

Press	Press	Press	Press	Press	Press
1	3	0	5	0	0

HEIGHT	UNIT PRICE	TOTAL PRICE
tinE ZERD TARE	EntEr SAVE AUTD SHIFT	13.05.00

6.11 To Program the **SCALE ID No.** as follows (RS485 OPTION)

This number is used to identify each scale for RS485 multi-drop operation.
1 up to 99 can be entered but each scale must be set with a different number.

**Note : Up to 32 scales can be controlled by a PC with RS485 multi-drop operation.
Scale Id number is set to 1 after memory initialization. (10.2)**

	HEIGHT	UNIT PRICE	TOTAL PRICE
	SEt		
	ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
1. PRT/※	SEt	EntEr	
	ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
2. 8	SEt	EntEr	8
	ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
3. PRT/※	ScodE	EntEr	1
	ZERO TARE	SAVE AUTO SHIFT	

Press

4.   8

	HEIGHT	UNIT PRICE	TOTAL PRICE
	ScodE	EntEr	8
	ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
PRT/※	SEt		
	ZERO TARE	SAVE AUTO SHIFT	

7.0 To Program **MESSAGE FOR PLU ITEMS,** do the following.

NOTICE

    A. If your scale has 1000 PLUs in CAPACITY, then the scale does not have this MESSAGE information Entry. Refer to SPECIFICATION.

    B. The contents of MESSAGE CODE NUMBER 200 are used for NON PLU item sale label.

7.1 Preparing to program **MESSAGE FOR PLU ITEMS**

    Press the **UP-ARROW** key on the large keyboard three times.
    This will return the scale to the **MSG** display mode.

Press   Press   Press

↑   ↑   ↑

HEIGHT	UNIT PRICE	TOTAL PRICE
MSG		
ZERO TARE	SAVE AUTO SHIFT	

1. |PRT/☀|

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	EntEr	
ZERO TARE	SAVE AUTO SHIFT	

    2. Key in a **MESSAGE CODE** number with the numeric keypad. (1 to 200);
    For example, 176.

Press   Press   Press

|1| |7| |6|

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	EntEr	176
ZERO TARE	SAVE AUTO SHIFT	

7.2. Key in the first line of **MESSAGE** information of up to 40 characters.

1. |PRT/☀|

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	01.01	
ZERO TARE	SAVE AUTO SHIFT	

Notes concerning entering **MESSAGE FOR HEAD** information

a. This message can be 4 or 8 lines of up to 40 characters each according to a type of LP. Refer to Specification for more detail information.

b. To capitalize, observe the **UNIT PRICE** display just above the word **SHIFT**. If a small triangle is lit, the scale is in the capitalize mode. If not, depress **SHIFT** key once. Each time the **SHIFT** key is depressed once the scale will switch into and out of the capitalize mode.

c. The **TOTAL PRICE** display window displays the characters that has been entered when the key is depressed. It also can be used to review the characters that have been entered previously by using the right and left arrow key on the keyboard. The **UNIT PRICE** display will show the number of the character that is being displayed.

d. Observe the **UNIT PRICE** display. The 01 before the decimal point indicates that this is the first line of **MESSAGE** information being entered. The two numbers after the decimal point display the number of the character out of a total of 40 that has been entered or is being displayed in the **TOTAL PRICE** display. The characters that can not be displayed will appear in the shape of _.

e. After the first line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the second line of information. If you do not require the second line, press the **PRT/∗** key twice.

Press

| ENTER |

7.3. Key in the Second line of **MESSAGE** information of up to 40 characters.

HEIGHT		UNIT PRICE			TOTAL PRICE
E MSG		02.01			
ZERO	TARE	SAVE	AUTO	SHIFT	

a. After the second line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the third line of information. If you do not require the third line, press the **PRT/∗** key twice.

Press

| ENTER |

2-27

7.4. Key in the Third line of **MESSAGE** information of up to 40 characters.

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	03.01	
ZERD TARE	SAVE AUTD SHIFT	

    a. After the third line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the fourth line of information. If you do not require the fourth line, press the **PRT/*** key twice.

Press

```
ENTER
```

7.5. Key in the Fourth line of **MESSAGE** information of up to 40 characters.

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	04.01	
ZERD TARE	SAVE AUTD SHIFT	

    a. After the fourth line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the fifth line of information. If you do not require the fifth line, press the **PRT/*** key twice.

Press

```
ENTER
```

7.6. Key in the Fifth line of **MESSAGE** information of up to 40 characters.

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	05.01	
ZERD TARE	SAVE AUTD SHIFT	

a. After the fifth line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the sixth line of information. If you do not require the sixth line, press the **PRT/*** key twice.

Press

```
ENTER
```

7.7. Key in the Sixth line of **MESSAGE** information of up to 40 characters.

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	06.01	
ZERO TARE	SAVE AUTO SHIFT	

a. After the sixth line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the seventh line of information. If you do not require the seventh line, press the **PRT/*** key twice.

Press

```
ENTER
```

7.8. Key in the Seventh line of **MESSAGE** information of up to 40 characters.

HEIGHT	UNIT PRICE	TOTAL PRICE
E MSG	07.01	
ZERO TARE	SAVE AUTO SHIFT	

a. After the seventh line of the **MESSAGE** information has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the eighth line of information. If you do not require the eighth line, press the **PRT/*** key twice.

Press

```
┌─────────┐
│ ENTER   │
└─────────┘
```

7.9. Key in the Eighth line of **MESSAGE** information of up to 40 characters.

HEIGHT		UNIT PRICE		TOTAL PRICE
B MSG		OB.01		
ZERO	TARE	SAVE	AUTO SHIFT	

	HEIGHT		UNIT PRICE		TOTAL PRICE
1. PRT/*	B MSG		EntEr		0
	ZERO	TARE	SAVE	AUTO SHIFT	

2. If you do not wish to enter information for additional **MESSAGE CODE NUMBER**, press the **PRT/*** key once. The scale is then set up to program the **HEADER FOR NON PLU ITEM.**

	HEIGHT		UNIT PRICE		TOTAL PRICE
3. PRT/*	HEAd				0
	ZERO	TARE	SAVE	AUTO SHIFT	

7.10. Preparing to Enter **PLU Information**

Press the **UP-ARROW** key on the large keyboard three times. This will return the scale to the **PLU** display mode at which point you may proceed to Section 8.1.

Press   Press   Press

↑   ↑   ↑

HEIGHT		UNIT PRICE		TOTAL PRICE
PLU				
ZERO	TARE	SAVE	AUTO SHIFT	

8.0 Programming PLU Information Using The Scale Keyboard:

8.1 Setting Up Scale For Programming

A. Place **STOP**, **MANUAL**, **AUTO** switch in **MANUAL** position.

B. Place **PGM**, **REG**, **ACC** switch in the **PGM** position.

HEIGHT		UNIT PRICE			TOTAL PRICE	
PLU						
ZERO	TARE	SAVE	AUTO	SHIFT		

8.2 To program **PLU CODE NUMBER** do the following

1. **PRT/**

HEIGHT		UNIT PRICE			TOTAL PRICE	
PLUno		200				
ZERO	TARE	SAVE	AUTO	SHIFT		

The value in **UNIT PRICE** display lets you know how many PLUs you can program.

2. Key in a number with the numeric keypad(1 to 9999); For example, **124**

Press   Press   Press

1	2	4

HEIGHT		UNIT PRICE			TOTAL PRICE	
PLUno		200			124	
ZERO	TARE	SAVE	AUTO	SHIFT		

8.3 To Program **ITEM CODE NUMBER** do the following

Press

1. **PRT/**

HEIGHT		UNIT PRICE			TOTAL PRICE	
iCodE						
ZERO	TARE	SAVE	AUTO	SHIFT		

Press

2. **PRT/**

HEIGHT		UNIT PRICE			TOTAL PRICE	
iCodE		EntEr			0	
ZERO	TARE	SAVE	AUTO	SHIFT		

³. Key In an **ITEM CODE NUMBER**(1 to 6 digits); For example **83439**
(For Label Format Types without Barcode, skip to paragraph 8.4).

Press   Press   Press   Press   Press

| 8 | 3 | 4 | 3 | 9 |

HEIGHT	UNIT PRICE	TOTAL PRICE
1CodE	EntEr	83439
ZERO TARE	SAVE AUTO SHIFT	

8.4 To Program **COMMODITY NAME** do the following

8.4.1 Key in the first line of **COMMODITY NAME** of up to 28 characters

1. Press **PRT/**☆

HEIGHT	UNIT PRICE	TOTAL PRICE
nAmE		
ZERO TARE	SAVE AUTO SHIFT	

2. Press **PRT/**☆

HEIGHT	UNIT PRICE	TOTAL PRICE
nAmE	01.01	
ZERO TARE	SAVE AUTO SHIFT	

Notes concerning entering **COMMODITY NAME** information

a. To capitalize, observe the **UNIT PRICE** display just above the word **SHIFT**. If a small triangle is lit, the scale is in the capitalize mode. If not, depress **SHIFT** key once. Each time the **SHIFT** key is depressed once the scale will switch into and out of the capitalize mode.

b. The **TOTAL PRICE** display window displays the characters that has been entered when the key is depressed. It also can be used to review the characters that have been entered previously by using the right and left arrow key on the keyboard. The **UNIT PRICE** display will show the number of the character that is being displayed.

c. Observe the **UNIT PRICE** display. The 01 before the decimal point indicates that this is the first line of **COMMODITY NAME** being entered. The two numbers after the decimal point display the number of the character out of a total of 28 that has been entered or is being displayed in the **TOTAL PRICE** display. The characters that can not be displayed will appear in the shape of _.

d. After the first line of the **COMMODITY NAME** has been entered with the large keyboard, press the **ENTER** key on the large keyboard once. You will then be able to enter the second line of information. See Section 8.4.2.

e. For Label Format Types that use double high letters for **COMMODITY NAME**, press **PRT/*** and continue on to Section 8.5.

8.4.2 Key in the second line of **COMMODITY NAME** of up to 28 characters

HEIGHT	UNIT PRICE	TOTAL PRICE
nAmE	02.01	
ZERO TARE	SAVE AUTO SHIFT	

a. After the first line of the **COMMODITY NAME** has been entered with the large keyboard, press the **PRT/*** key.

8.5 To Program **MESSAGE CODE** Number do followings

**NOTICE: If your scale has 1000 PLU CAPACITY, then you can not get this entry. Please skip to 8.6.
Refer to SPECIFICATION.**

Press
1. |PRT/*|

HEIGHT	UNIT PRICE	TOTAL PRICE
nSGno		
ZERO TARE	SAVE AUTO SHIFT	

Press
2. |PRT/*|

HEIGHT	UNIT PRICE	TOTAL PRICE
nSGno	02.01	0
ZERO TARE	SAVE AUTO SHIFT	

3. Key In an **MESSAGE CODE** Number (1 to 200); For example **123**
(For Label Format Types that do not use the message, skip to paragraph 8.6)

Press   Press   Press
| 1 | | 2 | | 3 |

HEIGHT	UNIT PRICE	TOTAL PRICE
nSGno	EntEr	123
ZERO TARE	SAVE AUTO SHIFT	

8.6 To Program **UNIT PRICE(PRICE/WEIGHT)** do the following

Press
1. |PRT/*|

HEIGHT	UNIT PRICE	TOTAL PRICE
PriCE		
ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
2. PRT/✳	PrICE ZERO TARE	EntEr SAVE AUTO SHIFT	0.00

3. Key in **UNIT PRICE** (999999 maximum); For example, 2.00 dollars.

Press   Press   Press

[2]   [0]   [0]

HEIGHT	UNIT PRICE	TOTAL PRICE
PrICE ZERO TARE	EntEr SAVE AUTO SHIFT	2.00

8.7 To Program **SHELF LIFE** do the following

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
1. PRT/✳	LIFE ZERO TARE	 SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
2. PRT/✳	LIFE ZERO TARE	EntEr SAVE AUTO SHIFT	0

3. Key in **SHELF LIFE** (0 to 365 maximum); For example, 7 days.
   If you enter 0 in this entry, the SELL BY DATE will be not printed on a label.

Press

[7]

HEIGHT	UNIT PRICE	TOTAL PRICE
LIFE ZERO TARE	EntEr SAVE AUTO SHIFT	7

8.8 To Program **PROGRAM TARE WEIGHT** do the following

NOTICE: The **PROGRAM TARE WEIGHT** of **PLU** is not available legally in any countries.

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
1. PRT/☀	tArE ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
2. PRT/☀	tArE ZERO TARE	EntEr SAVE AUTO SHIFT	0.000

3. Key in a **TARE WEIGHT**; For example, 0.315Kg.
  NOTE : For not requiring **PROGRAM TARE WEIGHT**, key in 0.

Press Press Press
  3   1   5

HEIGHT	UNIT PRICE	TOTAL PRICE
tArE ZERO TARE	EntEr SAVE AUTO SHIFT	0.315

8.9 To Program **GROUP CODE** do the following

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
1. PRT/☀	GCodE ZERO TARE	SAVE AUTO SHIFT	

Press	HEIGHT	UNIT PRICE	TOTAL PRICE
2. PRT/☀	GCodE ZERO TARE	EntEr SAVE AUTO SHIFT	0

3. Key in a **GROUP CODE** (0 to 99); For example, 21.

Press Press
  2   1

HEIGHT	UNIT PRICE	TOTAL PRICE
GCodE ZERO TARE	EntEr SAVE AUTO SHIFT	21

8.10 To **CHECK** all information programmed for **this PLU CODE number** do the following

Press	HEIGHT		UNIT PRICE			TOTAL PRICE	
1. PRT/*	SAvE						
	ZERO	TARE	SAVE	AUTO	SHIFT		

2. Press the **PRT/*** key when the **WEIGHT** window displays **SAVE** causes a label to be printed with the **PLU CODE** number just entered unless Print Mode is not in STOP. It also causes the **WEIGHT** display to display **PLUno**. The scale is now ready for entry of information for another **PLU CODE** Number.

HEIGHT		UNIT PRICE			TOTAL PRICE	
PLUno				1BB		0
ZERO	TARE	SAVE	AUTO	SHIFT		

O R

3. If you do not wish to enter information for additional **PLU CODE** Numbers, press the zero key on the numeric keyboard once. Then press the **PRT/*** key once. The scale is then set up to program the **PRESET KEY**s. (See Section 11.0)

HEIGHT		UNIT PRICE			TOTAL PRICE	
PrSEt				1BB		
ZERO	TARE	SAVE	AUTO	SHIFT		

9.0 Erasing All Information For A PLU #:

9.1 Place the Scale in the Program mode

A. Place **STOP, MANUAL, AUTO** switch in **MANUAL** position.

B. Place **PGM, REG, ACC** switch in the **PGM** position.

```
HEIGHT                    UNIT PRICE                TOTAL PRICE
┌──────────────┐          ┌──────────────┐          ┌──────────────┐
│     PLU      │          │              │          │              │
└──────────────┘          └──────────────┘          └──────────────┘
  ZERO     TARE             SAVE  AUTO  SHIFT
```

```
          HEIGHT                    UNIT PRICE                TOTAL PRICE
          ┌──────────────┐          ┌──────────────┐          ┌──────────────┐
PRT/⁜     │    PLUno      │          │         1BB  │          │              │
          └──────────────┘          └──────────────┘          └──────────────┘
            ZERO     TARE             SAVE  AUTO  SHIFT
```

9.2 Enter # of PLU item whose information is to be erased.(For example, 116)

```
           Press     Press     Press
1.          ┌───┐     ┌───┐     ┌───┐
            │ 1 │     │ 1 │     │ 6 │
            └───┘     └───┘     └───┘
```

```
          HEIGHT                    UNIT PRICE                TOTAL PRICE
          ┌──────────────┐          ┌──────────────┐          ┌──────────────┐
          │    PLUno      │          │         1BB  │          │         116  │
          └──────────────┘          └──────────────┘          └──────────────┘
            ZERO     TARE             SAVE  AUTO  SHIFT
```

```
     Press  HEIGHT                    UNIT PRICE                TOTAL PRICE
          ┌──────────────┐          ┌──────────────┐          ┌──────────────┐
2. PRT/⁜  │    iCodE      │          │              │          │              │
          └──────────────┘          └──────────────┘          └──────────────┘
            ZERO     TARE             SAVE  AUTO  SHIFT
```

9.3 To Erase all PLU information for # 116

1. Press the Down **ARROW** key on the large keyboard 8 times. The **WEIGHT** window will display **ErAsE**.

```
     Press   Press   Press   Press   Press   Press   Press   Press
      ↓       ↓       ↓       ↓       ↓       ↓       ↓       ↓
```

```
          HEIGHT                    UNIT PRICE                TOTAL PRICE
          ┌──────────────┐          ┌──────────────┐          ┌──────────────┐
          │    ErASE      │          │              │          │              │
          └──────────────┘          └──────────────┘          └──────────────┘
            ZERO     TARE             SAVE  AUTO  SHIFT
```

```
          HEIGHT                    UNIT PRICE                TOTAL PRICE
          ┌──────────────┐          ┌──────────────┐          ┌──────────────┐
2. PRT/⁜  │    PLUno      │          │         1BB  │          │              │
          └──────────────┘          └──────────────┘          └──────────────┘
            ZERO     TARE             SAVE  AUTO  SHIFT
```

10.0 Erasing Information For All PLUs and All Messages

10..1 Place the Scale in **the Program mode**

A. Place **STOP, MANUAL, AUTO** switch in **MANUAL** position.

B. Place **PGM, REG, ACC** switch in the **PGM** position.

HEIGHT		UNIT PRICE		TOTAL PRICE
PLU				
ZERO	TARE	SAVE AUTO	SHIFT	

	HEIGHT		UNIT PRICE		TOTAL PRICE
PRT/※	PLUno		1BB		
	ZERO	TARE	SAVE AUTO	SHIFT	

10.2 To erase Information for **All PLUs** and **All Messages** do the following

Press   Press   Press   Press   Press

1. | 2 | | 2 | | 7 | | 5 | | 7 |

HEIGHT		UNIT PRICE		TOTAL PRICE
PLUno		1BB		22757
ZERO	TARE	SAVE AUTO	SHIFT	

Press

2. **PRT/※**

HEIGHT		UNIT PRICE		TOTAL PRICE
PLUno		init		ALL
ZERO	TARE	SAVE AUTO	SHIFT	

Note : After this procedure, all common information related to All Labels are set to default values.

10.3 To erase Information for **All PLUs** do the following

Press   Press   Press   Press   Press

1. | 2 | | 2 | | 7 | | 5 | | 6 |

HEIGHT		UNIT PRICE		TOTAL PRICE
PLUno		1BB		22756
ZERO	TARE	SAVE AUTO	SHIFT	

Press

2. **PRT/※**

HEIGHT		UNIT PRICE		TOTAL PRICE
PLUno		init		PLU
ZERO	TARE	SAVE AUTO	SHIFT	

10.4 To erase Information for **All Messages** do the following

1.

Press	Press	Press	Press	Press
2	2	7	5	5

HEIGHT	UNIT PRICE	TOTAL PRICE
PLUno	199	22755
ZERO TARE	SAVE AUTO SHIFT	

2.

Press PRT/※

HEIGHT	UNIT PRICE	TOTAL PRICE
PLUno	init	MSG
ZERO TARE	SAVE AUTO SHIFT	

11.0 Programming PRESET Keys With Scale Keyboard:

11..1 If the scale is not in the programming mode do the following

    A. Place the **PGM, REG, ACC** switch in the **PGM** position.

HEIGHT		UNIT PRICE		TOTAL PRICE
PLU				
ZERO	TARE	SAVE	AUTO	SHIFT	

11..2 To program **PRESET** Key do the following

    1. Press down arrow key on large keyboard once.

<div align="center">

Press

↓

</div>

HEIGHT		UNIT PRICE		TOTAL PRICE
PrSEt				
ZERO	TARE	SAVE	AUTO	SHIFT	

Notes Concerning Setting Up **PRESET** Keys

    a. Each key on the large keyboard is numbered from 1 to 54. These are the **PRESET** Key numbers.

    b. The first 54 **PLU CODE** Numbers have been preassigned to equal the first 54 **PRESET** Key numbers. No programming other than programming the first 54 **PLU CODE** Numbers(per Section 7) is necessary if you use them as such. Therefore **PLU CODE** Number 1 equals **PRESET** Key Number 1 and so on for all 54 **PRESET** Key Numbers.

    c. If you wish, you can program a **PRESET** Key Number to a number different from the **PLU CODE** Number. For example, to set **PRESET** Key 2 equal to **PLU CODE** Number 59 you would do the following:

2. | PRT/※ | | HEIGHT | | UNIT PRICE | | TOTAL PRICE |
|---|---|---|---|---|---|---|
| | | S KEy | | | | |
| | | ZERO | TARE | SAVE | AUTO | SHIFT | |

3. On the large keyboard, press **PRESET** Key 2.

PRT/※	HEIGHT			UNIT PRICE			TOTAL PRICE
	S KEy				2		2
	ZERO	TARE		SAVE	AUTO	SHIFT	

4. Key in 59 on the numeric keypad

Press   Press

5		9

HEIGHT			UNIT PRICE			TOTAL PRICE
S KEy				2		59
ZERO	TARE		SAVE	AUTO	SHIFT	

5. | PRT/※ | HEIGHT | | | UNIT PRICE | | | TOTAL PRICE |
|---|---|---|---|---|---|---|---|
| | S KEy | | | | | | |
| | ZERO | TARE | | SAVE | AUTO | SHIFT | |

6. If **PLU** information had not been previously entered for **PLU CODE** Number 59, the **TOTAL PRICE** window would display invALid when the **PRT/*** key was pressed.

7. To program other special **PRESET** Keys, repeat steps 3, 4 and 5.

8. Once all special programming of **PRESET** Keys has been completed, press the zero key on the numeric keypad and then the **PRT/*** key to leave this programming mode.

SECTION   III

OPERATION

OF   THE

LP – SERIES

PRINTING   SCALE

12.0 Operating The LP-Series As A Printing Scale and Label Printer:

1. In order to set the LP-Series for use as a printing scale and label printer, place the **PGM**, **REG**, **ACC** switch in the **REG** position.

2. The **STOP**, **MANUAL**, **AUTO** switch should be set to either the **MANUAL** or **AUTO** position. In the **AUTO** position a label will be printed automatically as soon as the item has been weighed. In the **MANUAL** position, to print a label, depress the **PRT/*** key. The **AUTO** printing of the scale only operates when a **PRESET** key is depressed or a **PLU CODE** Number is entered and an item is weighed.

12.1 Transaction Using **The PRESET Keys**

1. Assuming no **TARE** has been preprogrammed in for this **PLU** item, if it is necessary to account for the tare weight of the container, place the empty container on the scale platform and press the **TARE** key on the small keypad. The **WEIGHT** window should display the tare weight of the container untill the **TARE** key is depressed. It will then display all zero as long as the empty container is left on the scale platform. Once it is removed, it will display a negative value equal to the tare weight of the container.

2. Depress the proper **PRESET** key on the large keyboard for the item to be weight. The **UNIT PRICE** window will display the price/weight that has been programmed in for that key.

3. Place the item to be weighed on the scale platform (with it's container if a tare for the container has been entered). The **WEIGHT** window will display the total weight of the item minus the tare of the container. The **UNIT PRICE** window will continue to display the price/weight. The **TOTAL PRICE** window will display the price to be charged for the item.

4. If not in **AUTO**, depress the **PRT/*** to print a label.

5. Once all weighing operations based on a specific container and it's tare are complete, the unit price and the tare weight will be returned to zero by removing all weight from the scale platform and depressing the **TARE** key unless the save function is used. This clears the **WEIGHT** display to an all zero's state.

6. If the **UNIT PRICE of PLU** can be changed and the save function is used, **UNIT PRICE** entered right after using the **PRESET** Key is regarded as the **UNIT PRICE** that is updated temporarily or permanently. If you want **PLU** and **NON-PLU** transaction, you should press **CLEAR** Key to initialize.

12.2 Transactions Using **The PLU CODE Number**

1. If it is necessary to account for the tare weight of the container, follow Section 12.1.1.

2. Key in the **PLU CODE** Number for the item to be weighed. For example for **PLU CODE** Number 129, key in a 1 then a 2 then a 9 on the small numeric keypad. The price/weight for that **PLU** will appear in the **UNIT PRICE** window.

3. Depress the **PLU** key on the small keypad.

4. Place the item to be weighed on the scale platform. The **WEIGHT** window will display the total weight of the item minus the tare weight entered, if any. The **UNIT PRICE** window will continue to display the price/weight. The **TOTAL PRICE** window will display the price to be charged for the item.

5. If in the **MANUAL** mode, depress the **PRT/*** key to print a label for the item.

6. Once all weighing operations based on a specific container and it's tare are complete, the unit price and the tare weight will be returned to zero by removing all weight from the scale platform and depressing the **TARE** key unless save function is used. This clear the **WEIGHT** display to an all zero's state.

7. If the **UNIT PRICE of PLU** can be changed and the save function is used, **UNIT PRICE** entered right after using the **PLU CODE** Number is regarded as the **UNIT PRICE** that is updated temporarily or permanently. If you want **PLU** and **NON-PLU** transaction, you should press **CLEAR** Key to initialize.

12.3 **Weighing** And **Labeling Prepackaged Items**

1. Assuming that the prepackaged item to be weighed have been packaged sitting on some sort of tray such as one made from styrofoam, place an empty tray on the scale platform.

2. Depress the **TARE** key on the small keypad. Depress the save key on the same keypad. A small triangular pointer of light will in the **UNIT PRICE** window pointing to the word **SAVE** printed on the frame of this window. This indicates that the scale is in the **SAVE** mode and will save the tare weight for the styrofoam tray. This tare weight will be saved until all weight is removed from the scale platform, the **SAVE** key is again pressed and the **TARE** key is again pressed.

3. Remove the empty tray from the scale platform. The **WEIGHT** display will display a negative number equal to the tare of the empty tray.

4. You have three possible options for entering the remaining information including price/weight.

    A. You may key in the unit price of the item being prepackage. It's unit price will appear in the **UNIT PRICE** window. This value will also be saved until the **SAVE** key is again depressed and the triangular point of light on the **UNIT PRICE** display pointing to **SAVE** is extinguished.

    B. You may press one of the **PRESET** keys (See Section 11.1.1 above). In this case, in addition to the price/weight stored for this **PLU**, all of the other information which has been previously stored for this **PLU CODE** Number will be printed on the label for every item weighed.

    C. You may enter a **PLU CODE** Number (See Section 11.2.1). The scale will caculate and print based on the information previously stored for that **PLU CODE** Number.

5. Place a prepackage item on the scale platform. The **TOTAL PRICE** window will display the total price to be charged for the item package. If in **AUTO** mode, the printer will print a label. If in **MANUAL** , depress the **PRT/*** Key to print a label.

6. Repeat 5 for the remaining items to be weighed and labeled.

7. Once all weighing operations based on a specific container and it's tare are complate, the tare weight can be returned to zero by removing all weight from the scale platform and depressing the **TARE** key. This should clear the **WEIGHT** display to an all zero's state.

12.4 Entering **TARE** with **The Scale's Numeric Keypad**

This feature is useful if items are often sold packaged in a limited number of containers such as selling Cole Slaw in 100g, 200g and 500g container. It is used as followings:

1. Weigh each different container and record their weights.

2. Using the numeric keypad, enter the **TARE** that was previously recorded for that container size, prior to placing the filled container on the scale platform. The numbers entered will appear in the **UNIT PRICE** window.

3. Depress the **TARE** key on the small keypad. The number in the **UNIT PRICE** window will now be displayed in the **WEIGHT** window as negative number. Lit triangles in the **WEIGHT** window will point to the words **ZERO** and **NET** indicating that the tare has been entered and the scale will provide the total cost based on subtracting this tare.

4. Place the filled container on the scale platform.

5. Key in the price/weight or depress a **PRESET** key or enter a **PLU CODE** Number and the scale will calculate the total price of the Cole Slaw in the container.

6. Print a label by depressing the **PRT/*** if in the **MANUAL** mode.

7. Once operation is complete, remove the item from the scale platform and press the **TARE** key. This will return the **WEIGHT** display to a zero reading.

12.5 Printing **Multiple Labels** With The Same Information

In any of the above weighing operations, if desired, more than one label could have been printed for any item weighed. This can be accomplished as follows:

1. Place the **STOP**, **AUTO**, **MANUAL** switch in the **MANUAL** mode.

2. Perform the weighing operations as listed above but do not press the **PRT/*** key.

3. Depress the **✗** switch on the small keypad.

4. With the numeric keypad, key in a number equal to the number of labels to be printed. This number will be appear in WEIGHT window.

5. Press the **PRT/*** key and the printer will print the number of labels requested. But the printed label sticks on the bar before being removed if print mode is on **MANUAL**. But on **AUTO** mode, the printed labels come out rapidly with the back paper on succession

12.6 Generating "**Price Only**" Labels For A PLU Item Sold For A Fixed Price

The scale is capable of acting as a label printer to generate "**Price Only**" labels for a **PLU** Coded items whose price is fixed and therefore does not depend on weight such as a bottle of Aspirin for $ 3.00. Such labels are printed as follows:

1. Place the **STOP**, **AUTO**, **MANUAL** switch in the **MANUAL** mode.

2. Press one of the **PRESET** keys or enter a **PLU CODE** Number.

3. Press the **PRT/*** key and a " **Price Only** " label will be printed for that **PLU** item.

12.7 Generating "**Price Only**" Label for **A Non-PLU Item**

A " **Price Only** " label can be generated for a **Non-PLU** item as well. For such an item, the printing on the top of the label will be the text of **HEADER** information. To print such a label do the follows:

1. Place the **STOP, AUTO, MANUAL** switch in the **MANUAL** mode.

2. Enter the price to be printed on the label using the numeric keypad.

3. Press the **PRT/∗** key and the printer will print the label.

12.8 Generating "Price Only" Labels For **PLU Coded Items** Sold At **One Price** For **a Quantity**

The scale is capable of generating " Price Only " labels for items which are sold in quantity at one price. For example it can generate a label that shows price and the number of items being sold for that price such a 5 pcs. for $ 2.00. This can be accomplished as follows:

1. Key in the **PLU** Code Number and depress the **PLU** key once.

2. Key in the quantity with numeric keys on the small keypad.

3. Depress the **FOR** key on the small keypad.

4. Key in the price to be charged for that quantity with the numeric keys.

5. Press the **PRT/∗** key to print the label for that **PLU** item with the item's name and other information entered during **PLU** programming except with the quantity entered in 2 and the price entered in 4.

Note : If step 1 is skipped, the " Price Only " label will be printed with **HEAD** information instead of a **PLU** item name.

12.9 **Adding transactions** and **Calculating Change**

NOTE : This function can not exist in your scale by OIML Regulation.

The scale is capable of adding and calculating Charge. For example, the **Total Price** for three is $ 7.95 and the user have been received $ 8.00 from a customer. To calculate Change do the follow

1. Place the **STOP, AUTO, MANUAL** switch in the **MANUAL** mode.

2. Press + Key after each transaction and label is printed out.

3. Afer adding all transactions, **PRICE** window will be displayed in the word, **ACC 3**. The **TOTAL PRICE** window will be displayed in 7.95.

Press	WEIGHT		UNIT PRICE			TOTAL PRICE
+			ACC03			7.95
	ZERO	TARE	SAVE	AUTO	SHIFT	

4. If you want to get a Adding Total Price Label, press **PRT/*** Key.

5. Press the **PAY** Key on the small keypad and the **WEIGHT** window will be played in the word, **CHA**.

Press	WEIGHT	UNIT PRICE		TOTAL PRICE
PAY	CHA			7.95
	ZERO TARE	SAVE AUTO SHIFT		

6. Key in 8.00 on the numeric keypad.

Press   Press   Press

8	0	0

WEIGHT	UNIT PRICE	TOTAL PRICE
CHA		8.00
ZERO TARE	SAVE AUTO SHIFT	

Press	WEIGHT	UNIT PRICE	TOTAL PRICE
7. **PRT/***	CHG		0.05
	ZERO TARE	SAVE AUTO SHIFT	

8. To clear all displays for other operation, press the **C** Key.

12.10 Cancelling **Printed Label**

If you made a mistake with printing label, you can cancle that label and delete the account result of that in report data..This can be accomplished as follows:

1. Press **COR** Key right after printing label.

2. This function is effective after multiple label operation and addition.

3. As this operation is proceeded, the buzzer will make a beep sound and **dELEte** will appear in Price display.

13.0 Report Operation :

13.1 Report Printing information.

The LP-Series scale itself is capable of printing a report of all sales made involving the scale since the last time the scales record was cleared.
There are four kinds of Reporting.

A. GRAND TOTAL WITH PLU AND NON PLU ITEM REPORTS

B. NON-PLU ITEM REPORT

C. ALL PLU ITEMS REPORT

D. EACH PLU ITEM REPORT THAT YOU WANT

13.2 Printing **A Sales Report** with the LP-Series

To print a report of all sales made since the last time the scale sales records were cleared:

1. Place the **PGM, REG, ACC** switch in the **ACC** mode.

2. The **WEIGHT** window will display the word, **PRINT**.

3. Press the **PRT/*** Key.

4. Do followings to get what kind you want.

    A. Press **LEFT ARROW** Key for **GRAND TOTAL REPORT**

    B. Press **RIGHT ARROW** Key for **ALL PLU ITEM REPORT**

    C. Press **UP ARROW** Key for **NON-PLU ITEM REPORT**

    D. Enter **PLU CODE** Number and Press **PLU** Key for each **PLU REPORT**

5. To quit reporting, Press **PRT/*** Key.

13.3 Clearing Stored Sales Report Data After Printing A sales Report

NOTE : If your scale has a Down-Arrow Key with CLR lettering, you can clear easily sales report data as above 13.2.4. and skip this procedure.

1. Place the **PGM, REG, ACC** switch in the **ACC** mode.

2. The **WEIGHT** window will display the word, **Print**.

3. Press the **DOWN-ARROW** Key once.

4. The **WEIGHT** window will display the word, **CLEAr**.

5. Press the **PRT/*** Key.

6. **wAit A moment** appears in windows for a moment.

14.0 Receive PLU DATA from other LP Scales (RS232C OPTION)

14.1 Information of Receiving PLU DATA form other LP Scales

The LP-Series scale itself is capable of receiving programmed PLU data that other LP-Series scales. But you should check whether two scales are same kinds to link each other. To operate this function correctly, you use scales that have same PLU capacity.

14.2 Receiving **PLU DATA** from other scale

1. Link two scales with RS-232C cable.

2. Place the **PGM, REG, ACC** switch of the scale that will send **PLU DATA** in the **REG** mode. Press **CLEAR** Key to assure the initial condition.

3. Place the **PGM, REG, ACC** switch of the scale that will receiving **PLU DATA** in the **ACC** mode.

4. The **WEIGHT** window will display the word, **PRINT**.

5. Press **DOWN ARROW** Key three times

6. **trAnS** appears in **WEIGHT** window for a moment.

7. Press the **PRT/*** Key then **PLU DATA** will transfer between two scales.

SECTION IV

MAINTENANCE

OF THE

LP - SERIES

PRINTING SCALE

15.0 Installation Of A New Roll Of Labels:

1. Verify that the labels to be installed are the correct type (that they match the **Label Format Type** selected for use in your system).

2. Remove the door on the right side (side where printer is located). Refer to FIGURE 15-1 below (Similar to decal affixed to door).

3. Remove ⑦ and slide the empty sleeve from the old roll off of ①. Discard roll.

4. Remove ⑥ and slide the roll of release paper off ⑤. Discard release paper and return ⑥ to it's position.

5. Remove about a dozen labels from the begining of a new roll.

6. Slide the new roll on to ① with the label facing up with the labels exiting ① as shown in FIGURE 15-1. Return ⑦ to position to hold new roll in place.

7. Release lever ④ so that the print head is retracted from its normal print position.

8. Thread the end of the new roll between ② and ③ following the rest of the dashed path on FIGURE 15-1 wrapping a few turns around ⑤.

9. Return lever ⑤ to its original position so that the print head is in contact with labels side.

10. Turn on power and hit the **FEED** key on the small keypad a few times to feed some blank labels. Check that they feed correctly.

11. Print some labels to verify that the label are printed correctly and feed correctly.
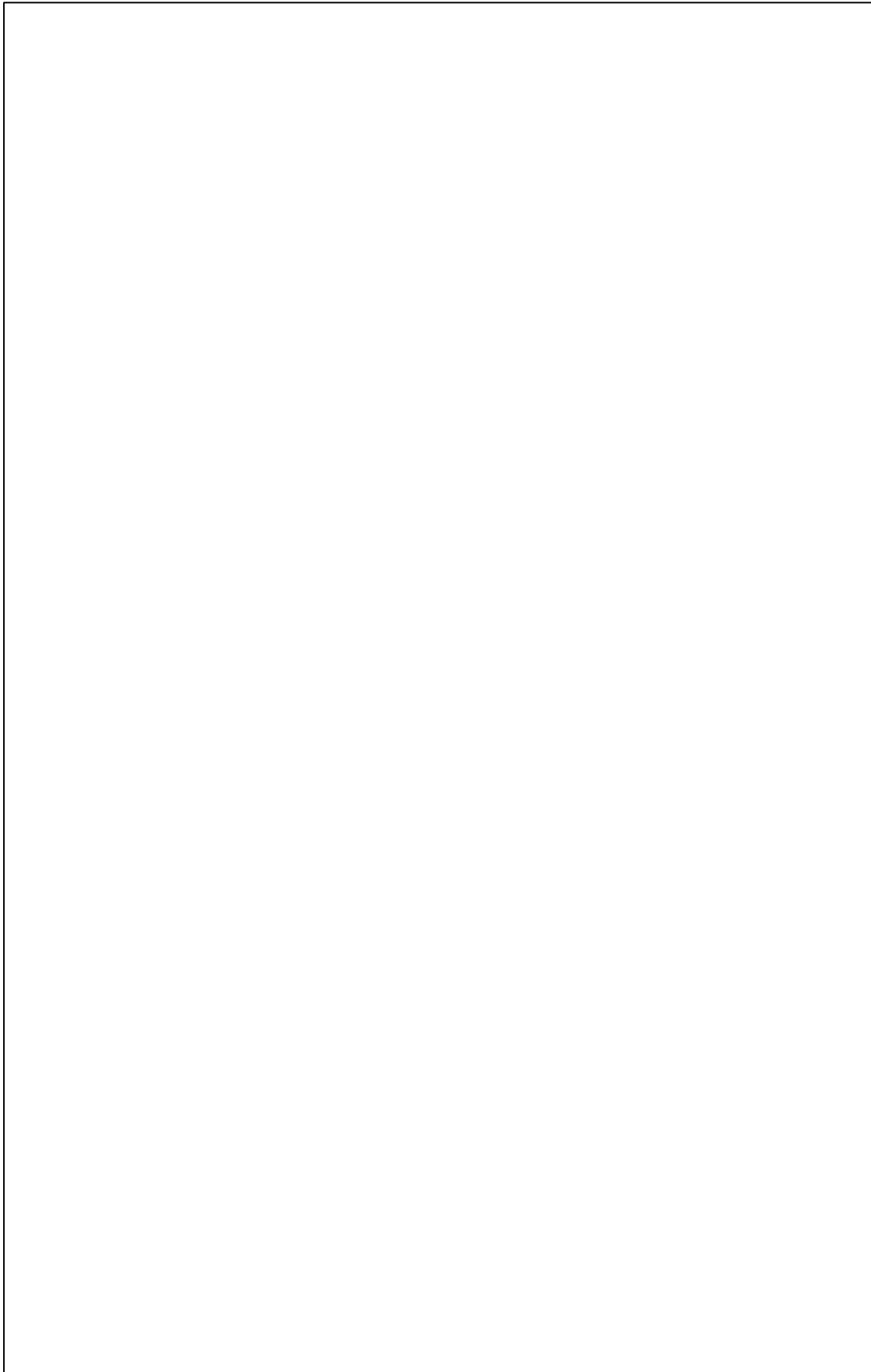
PAPER ROLL INSTALLATION

FIGURE 15-1

16.0 Testing Thermal Print Head:

If labels are not being printed completely (parts of labels show drop-outs in printing) the operation of the thermal print head should be checked.

This can be done as follows:

1. Place the **PGM**, **REG**, **ACC** switch in the **ACC** position.

2. The **WEIGHT** window should display the word, **Print**.

3. Press the **DOWN-ARROW** Key twice.

4. The **WEIGHT** window will display the word, **CHESS**.

5. Press the **PRT/*** Key and the printer will a label with a checkerboard pattern such as shown in FIGURE 16-1.

6. Check this pattern carefully to insure that it is continuous and there are no drop-out in the printing. If any appear, the scale should be serviced.

FIGURE 16-1

17.0 Error Message

MESSAGE	REASON	SOLUTION
Error 1	Retreiving PLU CODE Number that was not programmed.	Check PLU CODE Number.
Error 2	Recalled PLU CODE Number is over 9999.	Use correct PLU CODE Number.
Error 3	Scale is not stable on setting Tare Weight or printing.	Check place that scale is on then try again.
Error 4	Tare Weight was already set.	Cancel used Tare Weight then try again.
Error 5	Retrieved PLU DATA is broken and invalid.	Reprogram that PLU CODE Number and use it.
Error 6	PRINT MODE is on STOP.	Check PRINT MODE.
Error 7	RS232C cable is not linked.	Check if the cable is linked correctly or not.
Error 8	Impossible to transfer PLU DATA between two scales.	Remove entered UNIT PRICE by presssing CLEAR Key.
Error 9	Communication error	Try again from the beginning.
Error 10	Tare Weight entered by Key does not matched INTERVAL of scale.	Check INTERVAL of scale.
Error 11	Tare Weight is over the range.	Check TARE RANGE.
Error 12	Loaded Weight is below Minimum Weight of OIML Regulation.	Contact your dealer.
ZEro rAnGE Error	Initial Weight right after RESET is not valid for weighing correctly.	Check if the tray is installed correctly or not. If correct, contact your dealer.
SCALE iS not StAbLE	Scale is installed on a unstable place.	Check if the scale is installed on a rigid place or not. If right, contact your dealer.
d0 CAL	Programmed Setup data is broken.	Contact your dealer.

18.0   ASSEMBLY GUIDE FOR R-TYPE
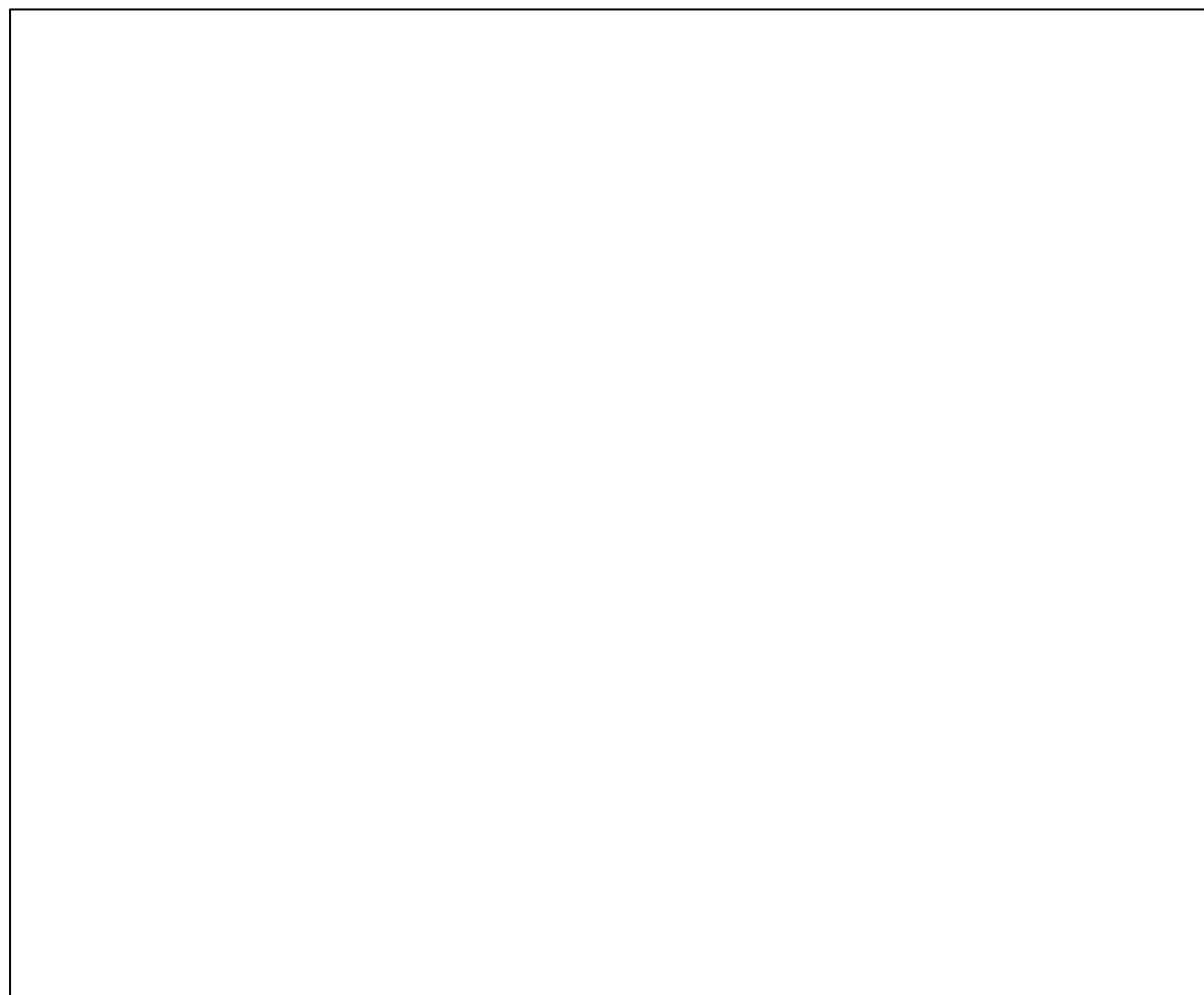
19.0 SPECIFICATION

* The R represents the scale with a Pole-Type Display unit.

MODEL	LP-06(R)*		LP-15(R)*	LP-30(R)*
CAPACITY	6Kg		15Kg / 30Lb	30Kg
TARE WEIGHT RANGE	Up to 2.99Kg		Up to 5.99Kg /Up to 30.00Lb	Up to 9.99Kg
DISPLAY	WEIGHT(5)/UNIT PRICE(6)/TOTAL PRICE(7)			
L A M P INDICATOR	ZERO, TARE, SAVE, AUTO, SHIFT			
M E M O R Y CAPACITY	FACTORY OPTION A. 200PLUs+200MSGs/400ch. per MSG B. 600PLUs+200MSGS/200ch. per MSG C. 1000PLUs, NO MSG.			
PRINTING TYPE	THERMAL DIRECT PRINT			

LABEL	CAPACITY	1,000 LABELS	700 LABELS	500 LABELS	400 LABELS
	SIZE	58mm×30mm	58mm×40mm	58mm×50mm	58mm×60mm

PRINTABLE WEIGHT	IGNORING OIML 4.17		FOLLOWING OIML 4.17	
	MANUAL MODE	AUTO MODE	MANUAL MODE	AUTO MODE
	OVER 0Kg	OVER 2 DIGITS	OVER 20 DIGITS	<-

INTERFACE	FACTORY OPTION A. 1 RS232C for PC to SCALE & SCALE to SCALE B. 2 RS485 for multi-drop operation by a PC.
POWER SOURCE	AC110V/120V/220V/240V (50Hz/60Hz)
POWER CONSUMPTION	MAX. 100W
OPERATING TEMPERATURE	-10℃ ~ 40℃
DIMENSION	410×430×195mm
NET WEIGHT	9.5Kg

20.0 Examples of Printed Label

20.1 Examples in PGM. MODE

20.2 Examples in REG. MODE

20.3 Examples in ACC. MODE