

ShangHai DB Scale Co.,Ltd

Label Printing Scale

Original : January 2017

(Revised)

# DLP-300 Series

Document No. ELP-301016



DB Scale Corporation

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

(For USA Only)

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

Some procedures described in this manual may be illegal in various state jurisdictions. There are optional settings to enable or to disable various functions. Please ensure that the optional settings for scale operations 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.

## FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

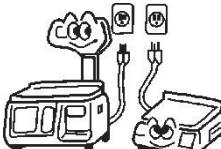
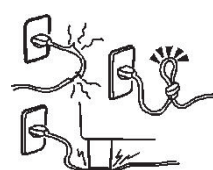
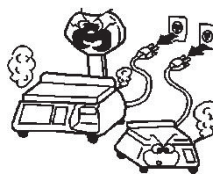
## FCC Warning

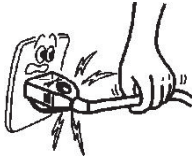
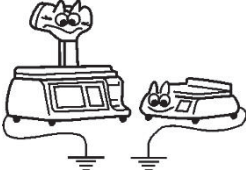
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## Safety Summary

Personal safety in handling or maintaining the equipment is extremely important. Warning and Cautions necessary for safe handling of the equipment are included in this manual. All warnings and cautions contained in this manual should be read and understood before handling or maintaining the equipment. Do not attempt to repair or modify this equipment. If a fault occurs that cannot be corrected using the procedures described in this manual, turn off the power, unplug the equipment, and then contact your service representative for assistance.

|                                                                                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <h1>WARNING</h1>                                                                                                                                                                                                                                                                        | This symbol indicates that there is the risk of death or serious personal injury if the machine is improperly handled during this operation or action. |                                                                                                                                                                                                                                                                                                           |
|    | Do Not Use voltages other than the voltage (AC) specified on the rating plate, as this may cause fire or electric shock.                                                                                                                                                                |                                                                      | Do Not plug in or unplug the power cord plug with we hands as this may cause electric shock.                                                                                                                                                                                                              |
|  | If the machines share the same outlet with any other electrical appliances which consume large amounts of power, the voltage will fluctuate widely each time these appliances operate. Be sure to provide an exclusive outlet for the machine as this may cause fire or electric shock. |                                                                    | Do Not place metal objects or water-filled containers such as flower vases, flower pots or mugs, etc. on top of the machines. If metal objects or spilled liquid enter the machines, this may cause fire or electric shock.                                                                               |
|  | Do Not insert or drop metal, flammable or other foreign objects into the machines through any openings, as this may cause fire or electric shock.                                                                                                                                       |                                                                    | Do Not scratch damage or modify the power cords. Also, Do Not place heavy objects on, pull on, or excessively bend the cords, as this may cause fire or electric shock.                                                                                                                                   |
|  | If the machines are dropped or their cabinets are damaged, first turn off the power switch and disconnect the power cord plug from the outlet, then call your Service Representative. Continued use of the machine in a damaged condition may cause fire or electric shock.             |                                                                    | Continued use of the machine in an abnormal condition such as when the machine is producing smoke or strange smells may cause fire or electric shock. In these cases, immediately turn off the power switch and disconnect the power cord plug from the outlet. Then contact your Service Representative. |

|                                                                                   |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>If foreign objects (metal fragments, water, and liquids) enter the machine, first turn off the power switch and disconnect the power cord from the outlet, and then contact your Service Representative. Continued use of the machine in that condition may cause fire or electric shock.</p> |  <p>When unplugging the power cord, be sure to hold and pull on the plug portion. Pulling on the cord portion may cut or expose the internal wires and cause fire or electric shock.</p> |
|  | <p>Ensure that the equipment is properly grounded. Extension cables should also be grounded. Fire or electric shock could occur on improperly grounded equipment.</p>                                                                                                                            |  <p>Do Not remove covers, repair or modify the machine by yourself. You may be injured by high voltage, very hot parts or sharp edges inside the machine.</p>                            |

|                                                                                   |                       |                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>CAUTION</b></p> | <p>This symbol indicates that there is risk of personal injury or damage to objects if the machine is improperly handled during this operation or action.</p> |
|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Precautions

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

- Try to avoid locations that have the following adverse conditions:
  - Temperatures out of the Specification
  - Direct Sunlight
  - High Humidity
  - Shared Power Source
  - Excessive vibration
  - Dust/Gas
- Do Not subject the machine to sudden shocks.
- Do Not press the keys too hard. Keys will operate correctly if they are touched lightly.
- Clean the cover and keyboard, etc. by wiping with a dry cloth or a cloth soaked with detergent and wrung out thoroughly. Never use thinner or other volatile solvent for cleaning.
- To ensure that the scale is operating correctly, place a known weight on the platter and check it for correct weight measurement. This should be done every morning before starting normal operations.
- When moving the machine, take hold of the case and lift the machine. Never pick up the machine by the remote display unit.
- Do Not place the machine on an unstable or slanted surface as the machine may drop or fall and cause injury.
- Use only **DB Scale** approved thermal paper supplies. Do Not store thermal paper where it may be exposed to direct sunlight, high temperatures, high humidity, dust or gas.
- Ensure that the scale is operated on a level surface.
- Any data stored in the machine may be lost or corrupted during a machine fault. Backup your critical information on a regular basis.
- Try to avoid using the scale on the same power source as high voltage equipment or equipment likely to cause mains interference.
- Unplug the machine whenever you are working inside it or cleaning it.
- Do Not block the ventilation slots of the scale as this will cause overheating which may cause damage to the internal circuit boards or even fire.

## 1. Introduction

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## 1. Introduction

# 1. INTRODUCTION

Thank you for purchasing the **DB Scale Corporation's** DB-300 Series Label Printing Scale. The DB-300 Series has many features and functions designed for ease of operation and customer satisfaction. We believe that all of your needs will now be fully satisfied. Please read and understand this manual to help obtain maximum performance for this product.

Most queries can be answered from the information contained in this manual. Please keep it in a safe and convenient place for future reference.

## Scale Features Overview

- 60 lb Weighing Capacity
- 32 bit ARM Multi Core Processor
- Program and maintain up to 30,000 PLU's
- Time and Date controlled Sales Promotions
- Ethernet Interface is standard (WiFi optional)
- USB Interface (max 8GB) for Backing Up and Restoring data
- File Maintenance can be performed at the Scale or via Software
- Print speeds up to 4ips (100mm)
- Utilizes Label Cassette for quick and convenient label replacement
- Custom Bar Code Formats can be programmed
- Multi language label printing available
- Store up to 50 custom label formats

## 1. Introduction

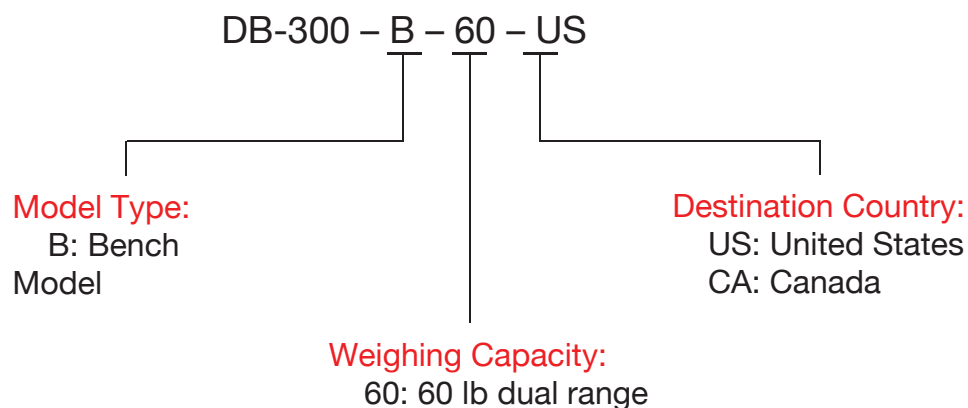
The list above is just a few of the many features included in the DB-300 Series Label Printing Scale. As you proceed through this manual you will find many more exciting and easy to use functions and features that will help to maintain your pricing integrity.

## 1.1 Applicable Model (s)

## 1.1 Applicable Model (s)

- DB-300-B-60-US
- DB-300-P-60-US

The description of the model number is as follows:

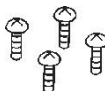


## 1.2 Accessories

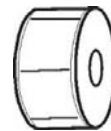
While unpacking the scale, please check to make sure the following accessories are included.



Owner's Manual  
( 1 Copy )



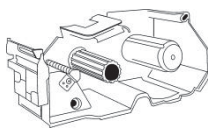
Display Screws  
( X4 )



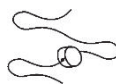
Labels  
( 1 roll )



Ethernet Cable  
( Crossover )



Label Cassette



Sealing Wire

## 2.2 Scale Options

## 2. SPECIFICATION

## 2.1 Scale Specifications

| Item                    | 60 lb scale (US model)                             |
|-------------------------|----------------------------------------------------|
| Maximum Capacity        | 60 lb                                              |
| Minimum Scale Division  | 0.01 lb ( 0 ~ 30 lb) 0.02 lb (31 ~ 60 lb)          |
| Maximum Tare            | 2 lbs                                              |
| Display Range           | 0 to 60.05 lb                                      |
| Unit Price Pre-settable | \$ 0.01 to \$ 99.99                                |
| Minimum Price Display   | \$ 0.01                                            |
| Display                 | Operator and Customer                              |
|                         | LED (White on Blue)                                |
|                         | Weight 5 digits, Unit Price 6 digits,              |
|                         | Tare Weight 4 digits, Total Price 7 digits         |
| Keyboard                | Operation and Built In Programming                 |
|                         | Operation – 34 Function Keys                       |
|                         | Speed Key - 168 Keys (56 x 3 Levels)               |
| Capacity of PLU Memory  | 30,000 PLU's                                       |
| Print Head Type         | Thermal Print Head                                 |
| Issue Method            | Strip, Receipt                                     |
| Dot Density             | 202 Dots per inch (8dots/mm)                       |
| Print Speed             | 4 IPS (100mm/sec)                                  |
| Available Media Width   | 40mm to 60mm (including backing paper)             |
| Interface               | LAN, Wireless LAN                                  |
| Dimensions (approx.)    | 17.7 inches (W) x 18.4 inches (D) x 6.1 inches (H) |

**2.2 Scale Options**

|                    |                                              |
|--------------------|----------------------------------------------|
| Weight             | 36.6 lb (16.6 kg)                            |
| Power Requirement  | AC 85V to 138V, 50/60 Hz $\pm 2\%$           |
| Power Consumption  | 90W/1.5A (when printing) 40W/0.6A (Stand by) |
| Temperature Limits | 23°F to 95°F (-5°C to +35°C)                 |
| Relative Humidity  | 30% to 80% (No condensation)                 |

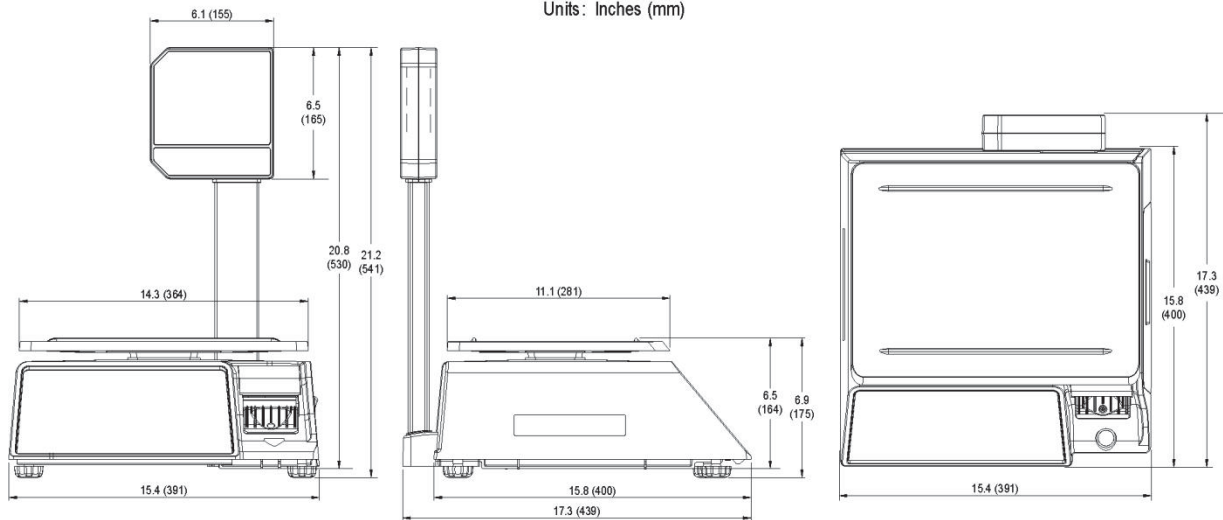
## 3.1 Scale Dimensions

## 3. APPEARANCE

## 3.1 Scale Dimensions

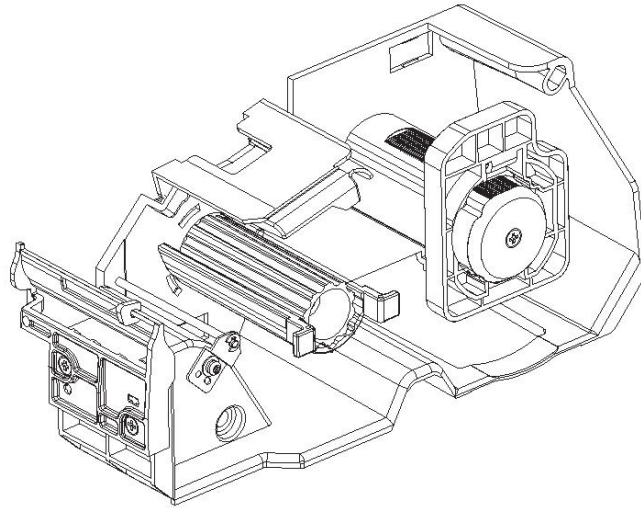
## Pole Model

Units: Inches (mm)

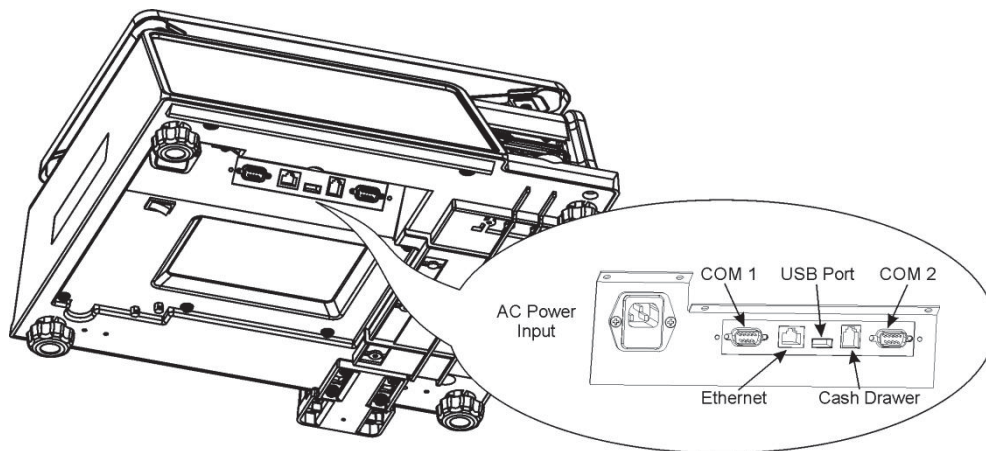


## 3.2 Label Cassette

## 3.2 Label Cassette



## 3.3 Connector Panel



## 4.1 Installing the Scale

## 4. GETTING STARTED

## 4.1 Installing the Scale

The scale should be installed on a sturdy level surface with an adequate ventilation area around it. There should also be enough area around the scale to allow for easy operation of the scale, meaning room to change label rolls when necessary, etc. Failure to do so will decrease the overall operational efficiency of the scale.

|                                                                                   |                |                                                                                                                                                        |
|-----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>CAUTION</b> | This symbol indicates that there is risk of personal injury or damage to objects if the machine is improperly handled during this operation or action. |
|-----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

When installing the scale avoid locations that place the scale in areas of:

- direct sunlight
- temperatures outside of the specifications
- high humidity
- vibration
- rapid temperature changes
- open flame
- moisture
- devices that produce electrical interference
- dust
- wind

Failure to follow these suggestions may result in incorrect operation of the scale.

|                                                                                     |                |                                                                                                                                                        |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>WARNING</b> | This symbol indicates that there is risk of personal injury or damage to objects if the machine is improperly handled during this operation or action. |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

## 4.1 Installing the Scale

## 4.2 Plugging in the Scale

- Only insert the plug into a properly rated outlet.
- Do Not plug the scale into an outlet with other electrical appliances. Other electrical appliances may consume a large amount of power when operating which may affect the scale's operation.
- Do Not use an extension cord.
- Do Not insert or remove the plug with wet hands.
- Do Not excessively bend, pull on, damage, place a heavy object on or heat the power cord.
- Make sure to fully insert the plug into the AC outlet.
- Make sure to only hold and pull on the plug when inserting or removing the power cord. Pulling on the cord instead of the plug may bread the wires internally causing a fire or shock hazard.
- Make sure the scale power is off prior to inserting the plug. Failure to do so may result in a short circuit and machine failure.

## 4.3 Level Adjustment

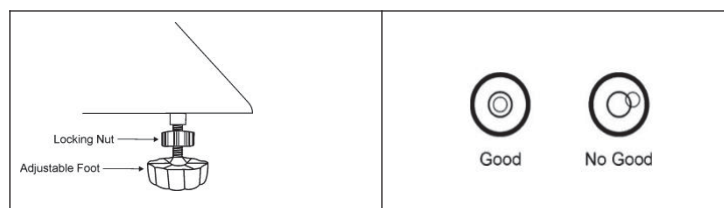
|                                                                                   |                |                                                                                                                                                        |
|-----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>CAUTION</b> | This symbol indicates that there is risk of personal injury or damage to objects if the machine is improperly handled during this operation or action. |
|-----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

- Use care when adjusting the scale legs to prevent squashing the power cord. Damaging the power cord could cause fire or electrical shock.
- To prevent the level adjustment from being changed accidentally, secure the adjustable legs with the locking nut after leveling.

## 4.3 Level Adjustment

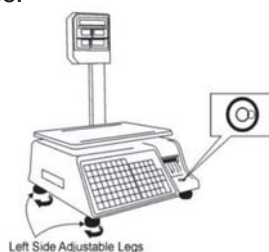
## 4.3 Level Adjustment

For correct weighing operations the scale should be leveled prior to use. Turn the four adjustable legs so that the bubble in the level gauge is positioned inside the center circle. Then secure the locking nut.



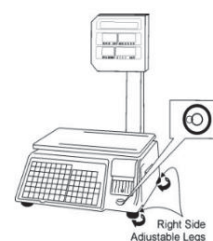
When the Level Bubble is to the RIGHT.

Turn the Left Side Adjustable Legs Clockwise, or turn the Right Side Adjustable Legs Counterclockwise.



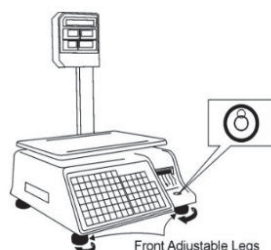
When the Level Bubble is to the LEFT.

Turn the Right Side Adjustable Legs Clockwise, or turn the Left Side Adjustable Legs Counterclockwise.



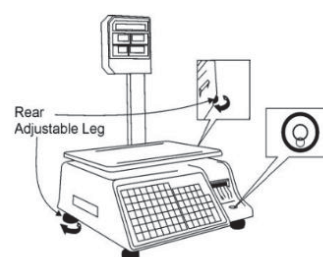
When the Level Bubble is to the BACK.

Turn the Front Side Adjustable Legs Clockwise, or turn the Rear Adjustable Legs Counterclockwise.



When the Level Bubble is to the FRONT.

Turn the Rear Adjustable Legs Clockwise, or turn the Front Side Adjustable Legs Counterclockwise.

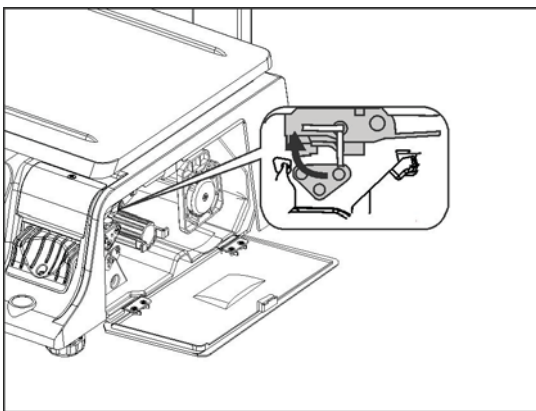


## 4.4 Installing the Labels

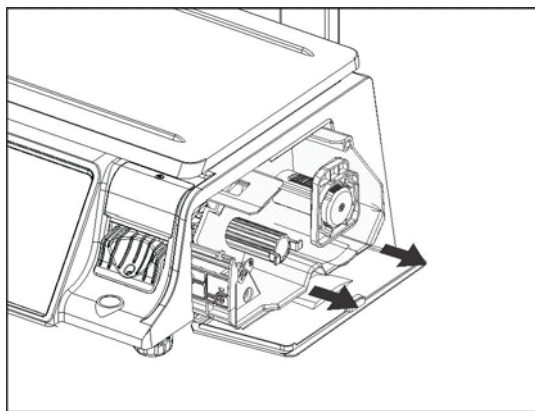
## 4.4 Installing the Labels

## 4.4.1 Removing Label Cassette

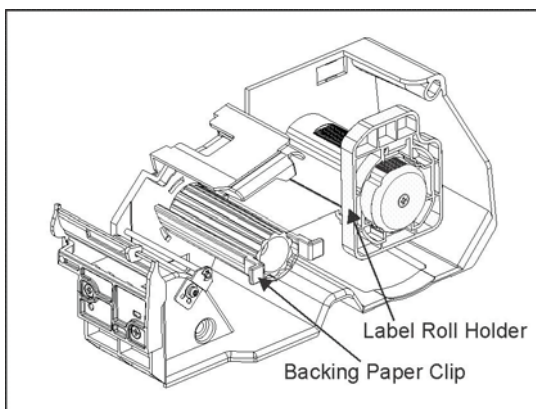
1. Open Side Door and Open the Print Head.



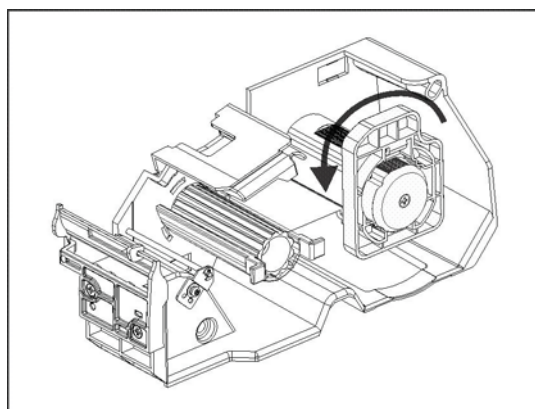
2. Slide Label Cassette Out of Scale.



3. Label Cassette (Complete)



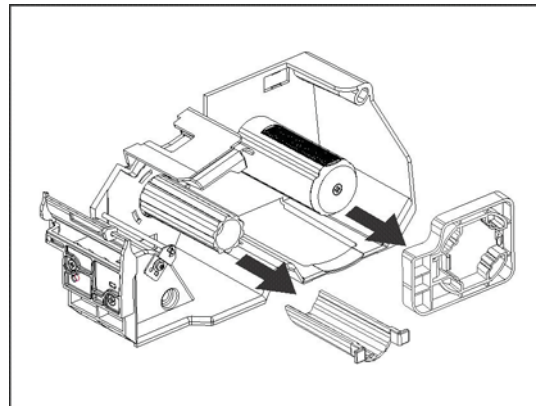
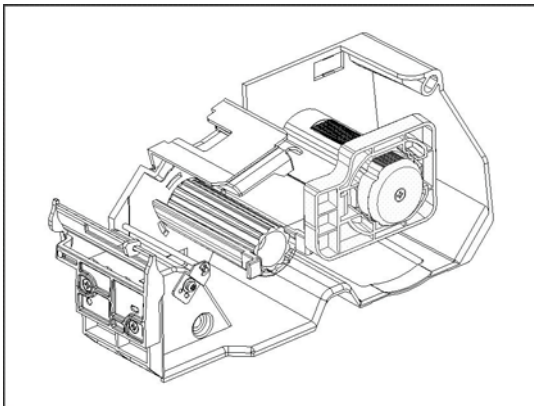
4. Turn Label Roll Holder counterclockwise 90 degrees.



5. Label Roll Holder rotated 90 degrees.

6. Remove Label Roll Holder and the Backing Paper Clip by pulling them in the direction of the arrows.

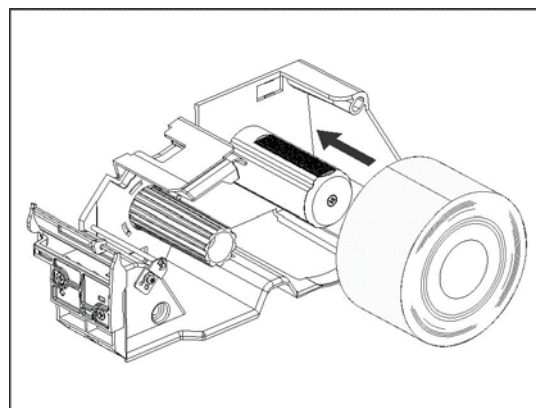
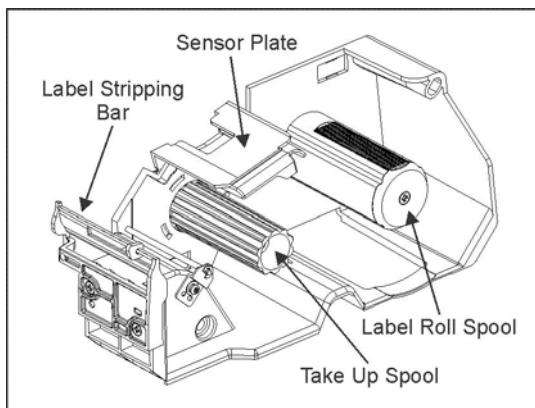
## 4.4 Installing the Labels



## 4.4.2 Loading the Labels

1. Empty Label Cassette (Complete)

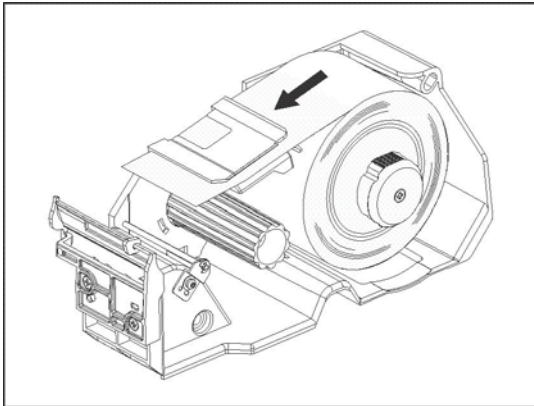
2. Place the Roll of Labels on the Label Roll Spool.



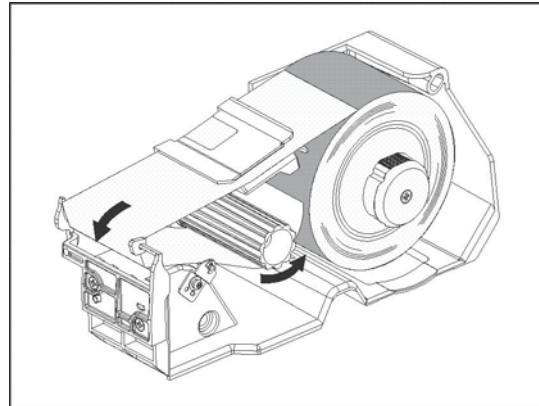
3. Thread the Backing Paper Portion of the roll of labels through the Sensor Plate.

4. Continue threading the backing paper over the Label Stripping Bar and under the Take Up Spool.

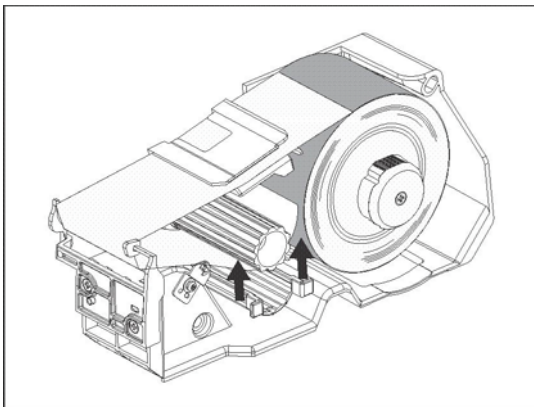
## 4.4 Installing the Labels



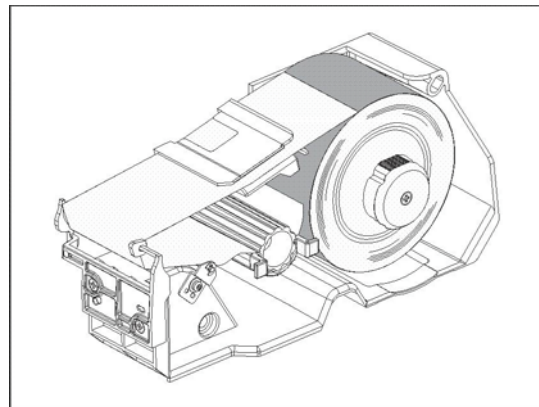
5. While holding the backing paper around the Take Up Spool, snap the Backing Paper Clip in place.



6. The Backing Paper Clip should be secured in place.

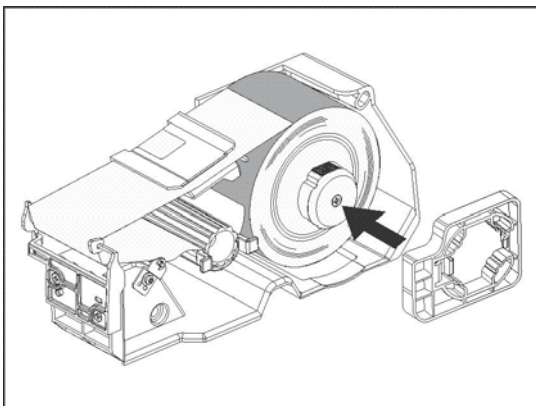


7. Place the Label Roll Holder on the Label Roll Spool as shown below.

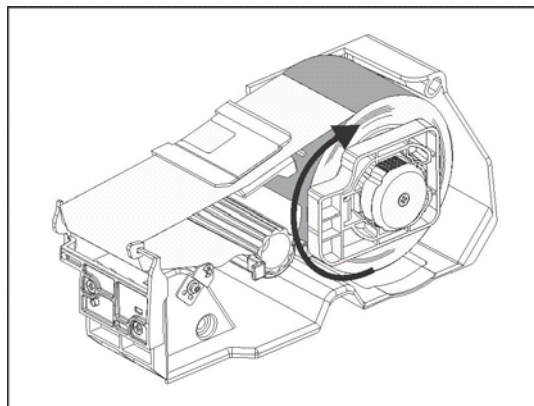


8. Rotate the Label Roll Holder clockwise 90 degrees until it locks in place.

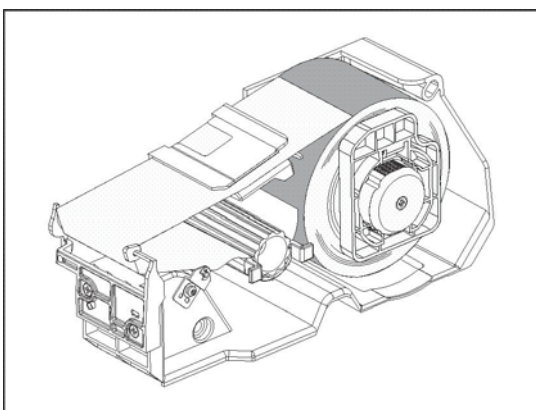
## 4.4 Installing the Labels



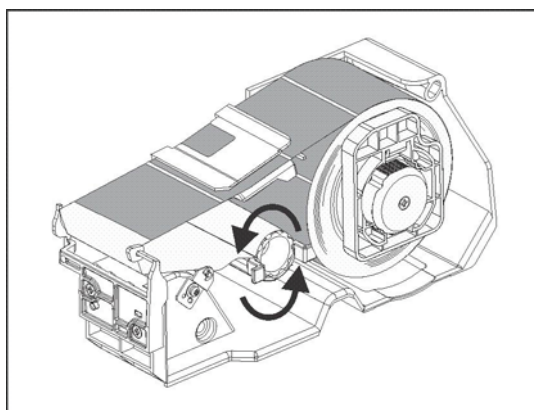
9. The Label Roll Holder should be secured in place.



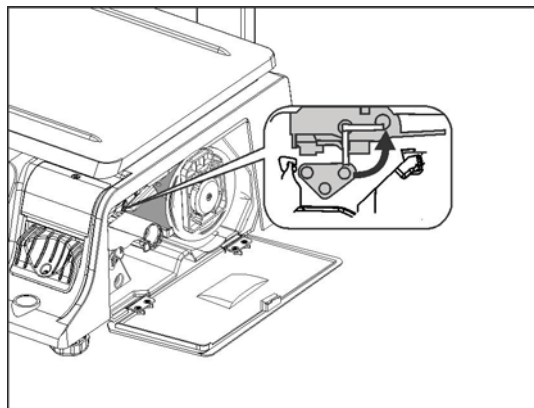
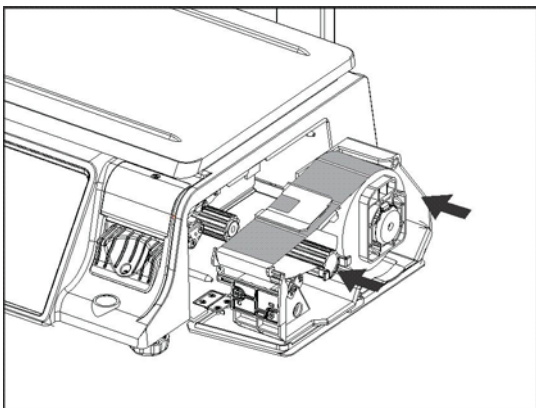
10. Turn the Backing Paper Spool with Clip counter clockwise to advance the labels as shown below.



11. Install the Label Cassette with labels into the scale.



12. Close the Print Head. Close the Side Door. Press the Esc/Feed key one time.

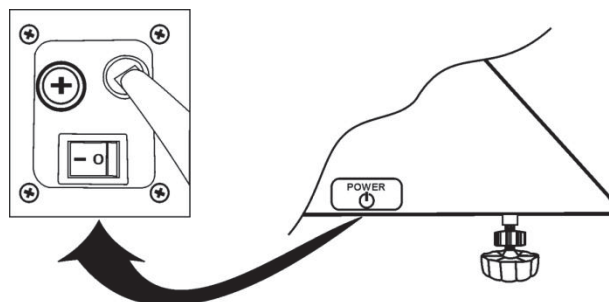


## 4.5 Turning Power On/Off

## 4.5 Turning Power On / Off

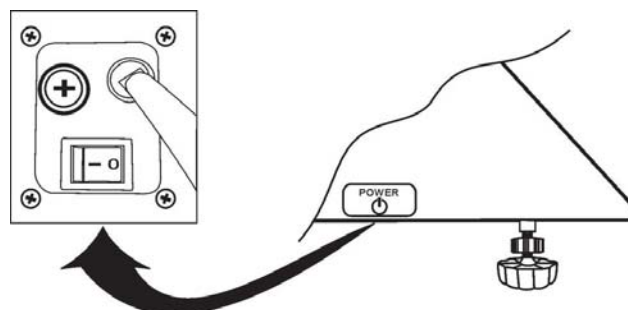
## 4.5.1 Turning the Power On

1. Make sure that the power plug is fully inserted into the AC outlet.
2. Make sure that nothing is located on the scale platter.
3. Turn the power switch to the ON ( 1 ) position.



## 4.5.2 Turning the Power Off

1. Do Not turn Off the power during printing
2. Do Not turn Off the power in the middle of an operation.
3. Turn the power switch to the OFF ( 0 ) position.

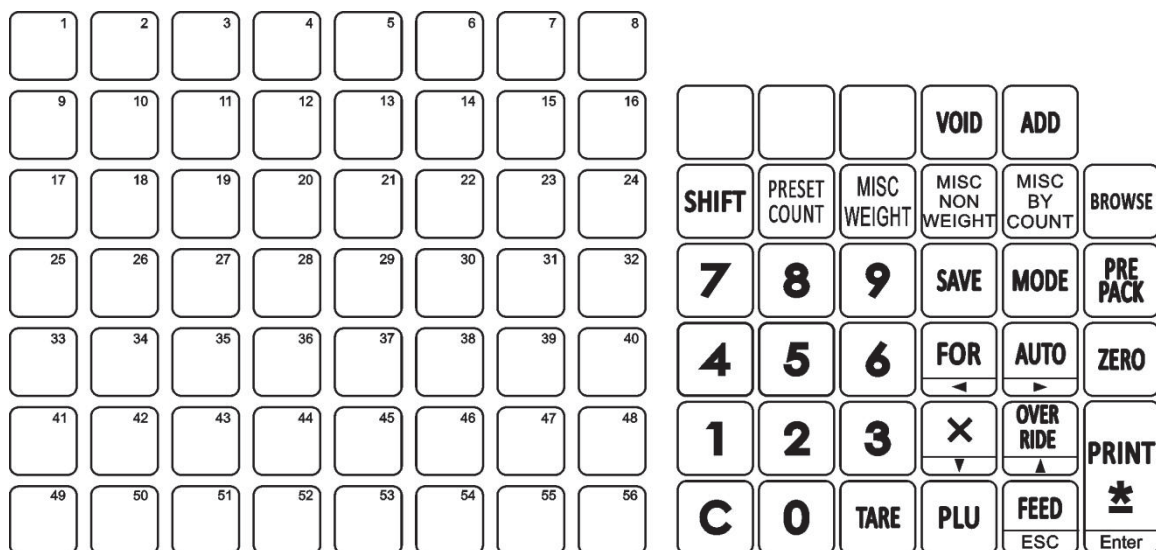


## 5.1 Operations Keyboard

## 5. KEYBOARDS

## 5.1 Operations Keyboard

The Operations Keyboard consists of 56 (x3 levels) Speed Keys and 34 Function Keys. All of the key functions are explained below.



Several keys have multiple purposes; please refer to the appropriate keyboard section for the correct key function explanation.

| Key | Function                                                                                                               |
|-----|------------------------------------------------------------------------------------------------------------------------|
|     | Keys numbered 1 to 56 (3 levels) can be used for quick recall of PLU's or may be programmed as a special function key. |
|     | Used to Void or remove an item from an accumulated/sum transaction.                                                    |
|     | Used to Add an item to the accumulated/sum transaction. Used to issue a label in the accumulation/sum mode.            |
|     | Used to access Level 2 and Level 3 of the Speed Keys.                                                                  |
|     | Used to enter a known quantity of labels to be issued for a Non Weight or By Count type PLU.                           |

## 5.1 Operations Keyboard

| Key                                                                               | Function                                                                                                               |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | Keys numbered 1 to 56 (3 levels) can be used for quick recall of PLU's or may be programmed as a special function key. |
|  | Used to Void or remove an item from an accumulated/sum transaction.                                                    |
|  | Used to Add an item to the accumulated/sum transaction. Used to issue a label in the accumulation/sum mode.            |
|  | Used to access Level 2 and Level 3 of the Speed Keys.                                                                  |
|  | Used to conduct a transaction for a Weight item that is not programmed in the scale's memory.                          |
|  | Used to conduct a transaction for a Non Weight item that is not programmed in the scale's memory.                      |

| Key                                                                                 | Function                                                                                                                                                             |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Used to conduct a transaction for a By Count item that is not programmed in the scale's memory.                                                                      |
|  | Used to save the Unit Price and Tare Weight of a recalled commodity for use in multiple transactions.                                                                |
|  | Used to browse through the PLU file. Also used to step through the communications setup. (based on scale model)                                                      |
|  | Used to place the scale in the Prepack mode for backroom operations.                                                                                                 |
|  | Used to enter the quantity of a commodity in Non Weight or By Count modes of operation. Used to change the PLU Type of a Weigh Mode PLU. Left arrow key is not used. |
|  | Used to place the scale in the Automatic Print mode. Right arrow key is not used.                                                                                    |
|  | Used to reset the Zero reference count of the scale.                                                                                                                 |

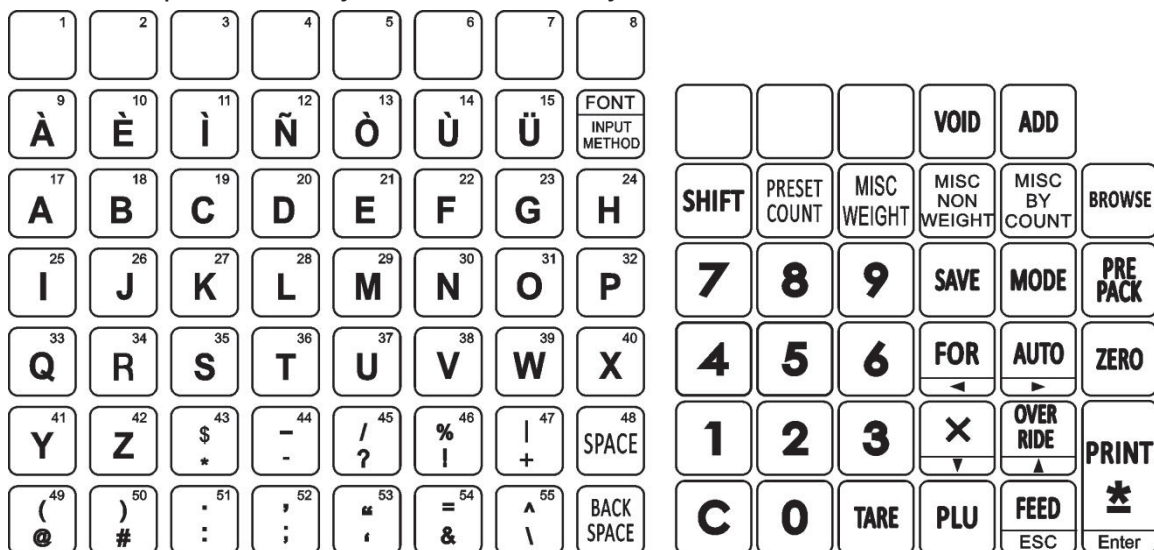
## 5.1 Operations Keyboard

| Key                                                                                 | Function                                                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|    | Used to conduct a transaction for a By Count item that is not programmed in the scale's memory.                   |
|    | Used to save the Unit Price and Tare Weight of a recalled commodity for use in multiple transactions.             |
|    | Used to browse through the PLU file. Also used to step through the communications setup. (based on scale model)   |
|    | Used to place the scale in the Prepack mode for backroom operations.                                              |
|    | The X key is not used in the operations mode.                                                                     |
|    | Used to implement Unit Price, Tare Weight or Quantity changes in a recalled commodity. May be password protected. |
|   | Used to clear keyboard input errors.                                                                              |
|  | Used to manually enter a Tare Weight for a commodity.                                                             |
|  | Used to recall a programmed commodity.                                                                            |
|  | Used to issue a blank label. The ESC function is not used in the operation mode.                                  |
|  | Used to manually print a label. The Enter function is not used in the operation mode.                             |

## 5.2 Programming Keyboard

## 5.2 Programming Keyboard

The built in programming keyboard consists of the letter and symbol keys as well as some of the Operations keyboard function keys.



Several keys have multiple purposes; please refer to the appropriate keyboard section for the correct key function explanation.

| Key                                                                                                                                                                       | Function                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|  →  | Used to enter text and symbols.                                                                                          |
|                                                                                        | Used to change the text input method from the built in keyboard characters to Unicode. Changes Font Size in text fields. |
|                                                                                        | Used to insert a character space when entering text.                                                                     |
|                                                                                        | Used to move the cursor back one space and delete any character in that space while editing text.                        |
|                                                                                        | Used to access lower case letters and symbols. Acts like a shift lock key.                                               |
|                                                                                        | Used to access the different programming modes.                                                                          |

## 5.2 Programming Keyboard

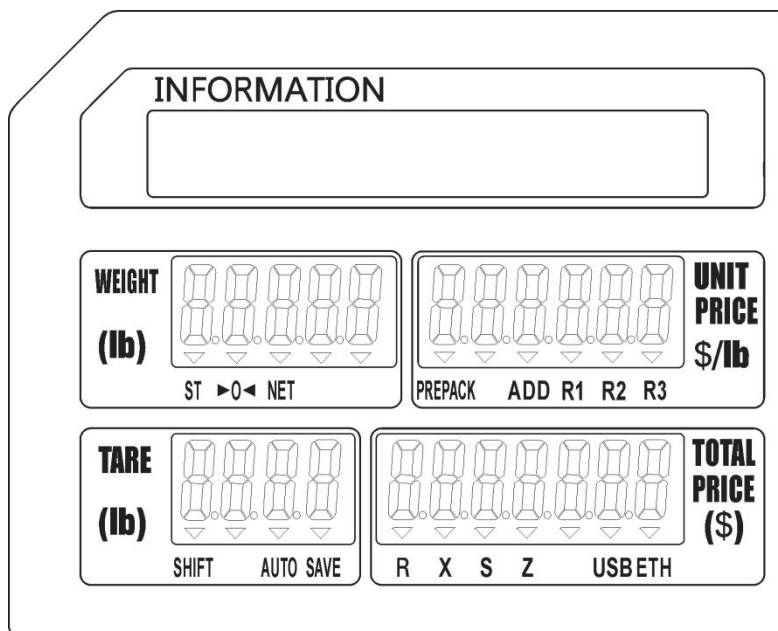
|                                                                                   |                                                                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|  | Left arrow key used to navigate and move the cursor while editing text fields. FOR has no function in programming modes.      |
|  | Right arrow key is used to navigate and move the cursor while editing text fields. AUTO has no function in programming modes. |

| Key                                                                                 | Function                                                                                                                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Used to change lines downwards when programming text fields with multiple lines available. Also used to navigate downwards through certain programs. |
|   | Used to change lines upwards when programming text fields with multiple lines available. Also used to navigate upwards through certain programs.     |
|  | Used to delete items from memory.                                                                                                                    |
|  | Feed function not used in program mode. ESC is used to move up or back one level and to exit a program mode.                                         |
|  | Print function is not used in program mode. Enter is used to enter or store information.                                                             |

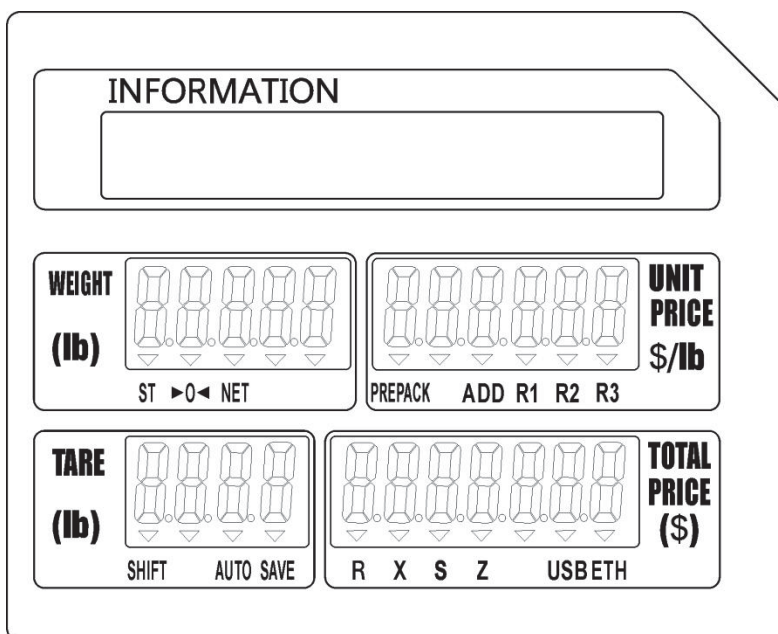
## 6.1 Operator and Customer Display

## 6. DISPLAYS AND INDICATORS

## 6.1 Operator and Customer Display



Operator Display



Customer Display

## 6.2 Individual Displays and Tri Mark Indicators

## 6.2 Individual Displays and Tri Mark Indicators

| Display         | Information                                                                      |
|-----------------|----------------------------------------------------------------------------------|
|                 |                                                                                  |
| INFORMATIO<br>N | Displays the Commodity Name. Displays Menu Titles.                               |
| WEIGHT          | Displays up to 5 digits of Weight information.                                   |
| UNIT PRICE      | Displays Unit Price up to 5 digits or Pieces count of recalled Commodity.        |
| TARE WEIGHT     | Displays up to 4 digits of Tare Weight information. Displays Program Mode steps. |
| TOTAL PRICE     | Displays up to 7 digits of Total Price information. Displays Program Mode text.  |

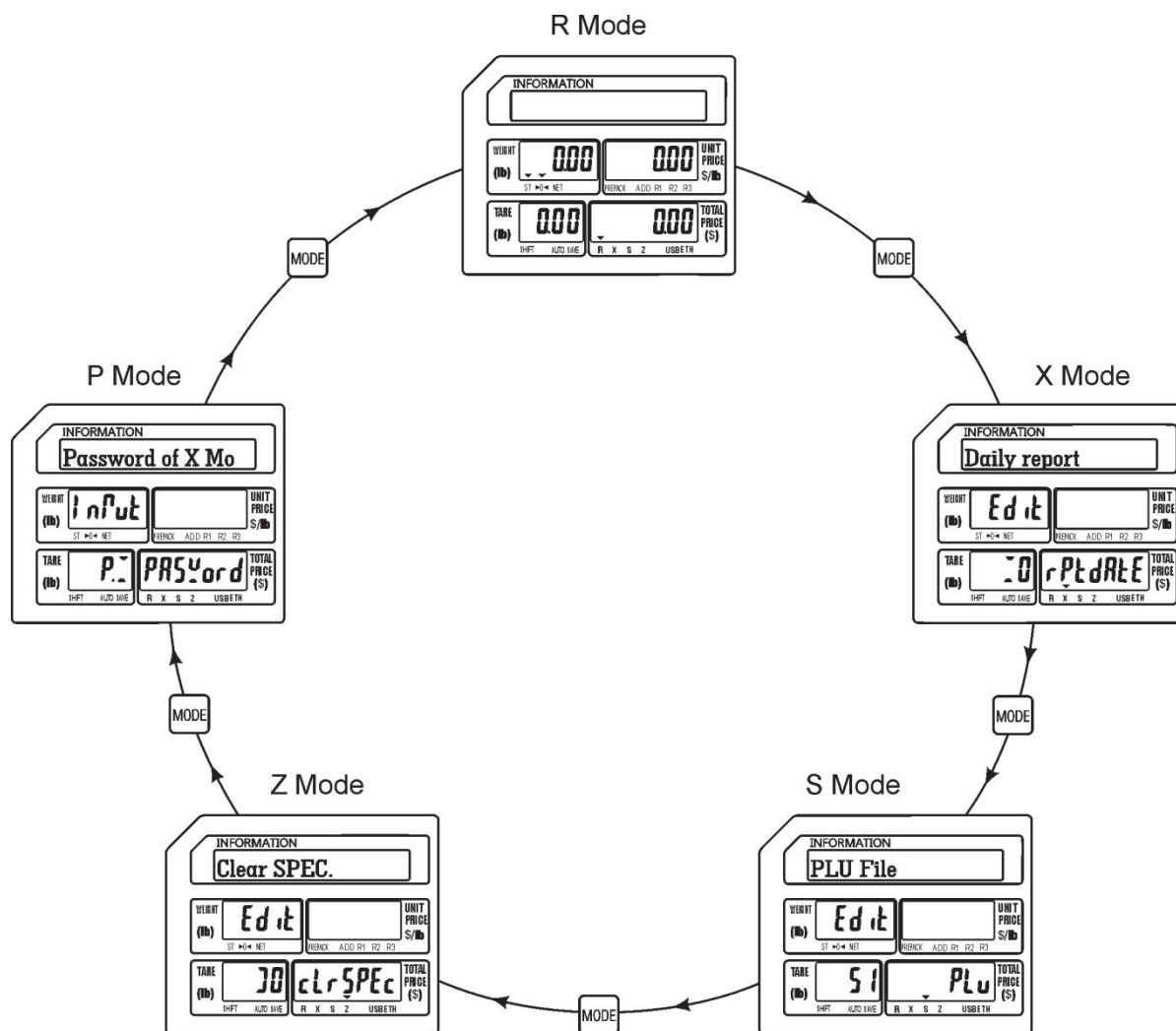
| Indicator | Function                                                                                     |
|-----------|----------------------------------------------------------------------------------------------|
|           |                                                                                              |
| ST        | Indicates the platter is in a stable condition                                               |
| ►0◄       | Indicates that no Tare weight has been set and nothing has been placed on the platter.       |
| NET       | Indicates a Tare weight has been entered and that the displayed weight will be a net weight. |
| PREPACK   | Indicates the scale has been placed in the PrePack mode of operation.                        |
| ADD       | Indicates the scale is in the Accumulation or SUM mode of operation.                         |
| R1        | Indicates the transaction is in Override position one.                                       |
| R2        | Indicates the transaction is in Override position two.                                       |
| R3        | Indicates the transaction is in Override position three.                                     |
| SHIFT     | Indicates the Shift key has been depressed.                                                  |
| AUTO      | Indicates the Automatic Print Mode is enabled.                                               |
| SAVE      | Indicates the Unit Price and Tare Weight will not be cleared automatically.                  |
| R         | Indicates the scale is in the R mode of operation. This is normal weigh mode.                |
| X         | Indicates the scale is in the X mode of operation. This is the sales report mode.            |
| S         | Indicates the scale is in the S mode of operation. This is the main programming mode.        |

## 6.2 Individual Displays and Tri Mark Indicators

|     |                                                                            |
|-----|----------------------------------------------------------------------------|
| Z   | Indicates the scale is in the Z mode of operation. This is the reset mode. |
| USB | Indicates a USB device has been inserted and detected.                     |
| ETH | Indicates the scale is using Ethernet mode communications.                 |

## 7.1 Main Menu Modes

## 7. MAIN MENU



## 7.1 Main Menu Modes

### 7.1 Main Menu Modes

#### R Mode

The R mode is used to perform most daily operations such as weighing commodities, recalling programmed commodities and issuing labels. After normal power on procedures the scale will be in the R mode. All transactions performed in this mode are recorded and saved in memory for use by management for Sales Reports.

#### X Mode

Pressing the MODE key once will take you to the X mode. The X mode is used to perform Sales Reports using information obtained during normal daily operations of the scale. Several types of reports are available in the X mode. There are both daily and monthly reports available. Some report categories available are By PLU, By Department and By Group. Some other special functions available are Exporting Sales Data and printing a PLU List. For a detailed explanation of these functions please refer to the appropriate section(s) of this manual.

#### S Mode

Pressing the MODE key twice will take you to the S mode. The S mode is where most of the programmed information used during daily operations is directly entered at the scale. (The same information may also be entered using the XDB Manager Software program where available.) There are several programming items available, from selecting which information fields are visible when programming a commodity or PLU to programming date and time controlled discount sales. Each of the many functions is explained in the S mode (Programming Mode) section of this manual.

#### Z Mode

Pressing the MODE key three times will take you to the Z mode. The Z mode is mainly used to reset information in the scale back to a factory default configuration or clearing the programmed information out of memory. Most types of programmed information may be conveniently reset or cleared individually. Stored Sales Information can also be reset/cleared using the Z mode. There are several other special functions available in the Z mode such as compressing and recreating the commodity database, printing the system activity log, printing the firmware upgrade information, printing the scale calibration record and backing up and restoring programmed information.

## 7.1 Main Menu Modes

### P Mode

If the P mode has been enabled in the SPEC program, pressing the MODE key four times will take you to the P mode. The P mode is used to provide some level of security when accessing or programming information in the scale. It is not normally visible in the Main Menu list and must be enabled using the SPEC configuration mode. When enabled and configured correctly a password will be required to access the X, S and Z modes in the scale.

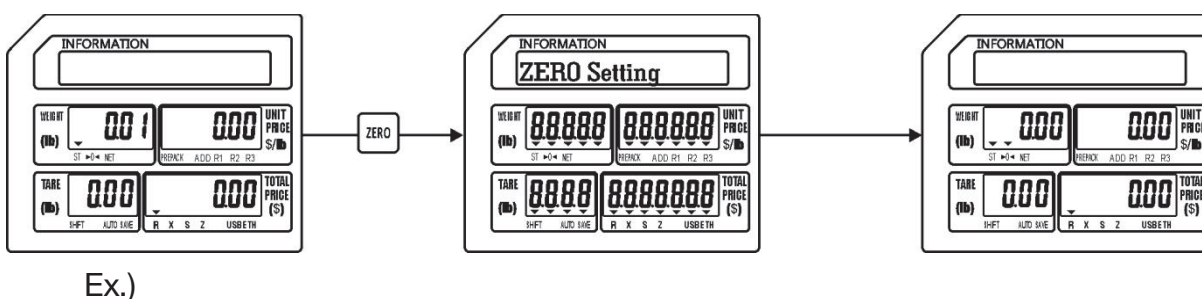
## 8.1 Setting the ZERO Point

## 8. BASIC OPERATIONS

In this section, basic R mode operations such as recalling a commodity, entering a tare weight, weighing and issuing labels, etc. are explained.

## 8.1 Setting the ZERO point

The ZERO key may be used to make corrections for minor deviations in the zero reference point. The scale may drift from zero due to environmental conditions, debris on the platter or leaving objects on the platter for long periods of time. To correct this, remove all objects and debris from the platter. When the ST tri-mark (▼) is lit, press the ZERO key.



The scale Weight display should now show zero. If the scale will not return to Zero, contact your authorized service representative.

## 8.2 Recalling a Commodity (PLU)

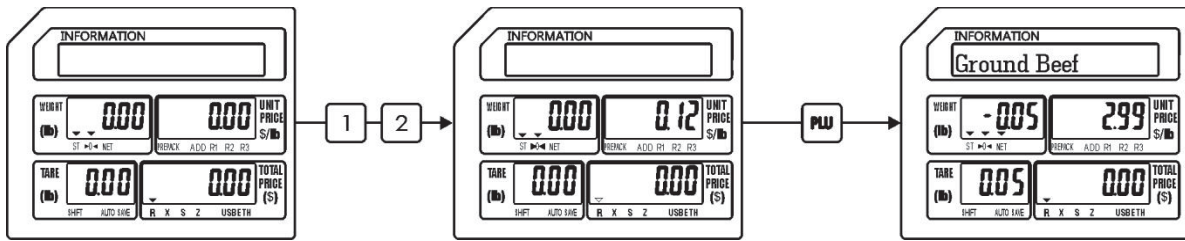
There are three methods of recalling a commodity or PLU. These methods are used to recall Weigh, Non-Weigh and By Count mode commodities (PLU's). The procedure is the same for all of the PLU types.

## 8.2.1 Using the PLU key

To recall a PLU from memory input the PLU number using the numeric keys and then press the PLU key.

Ex.) Recall PLU #12

Action: Enter 12 using the numeric keypad, then press the PLU key.

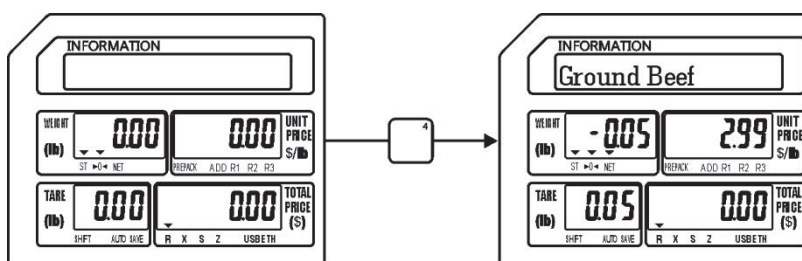


## 8.2.2 Using the SPEED Keys

## 8.2.2 Using the SPEED Keys

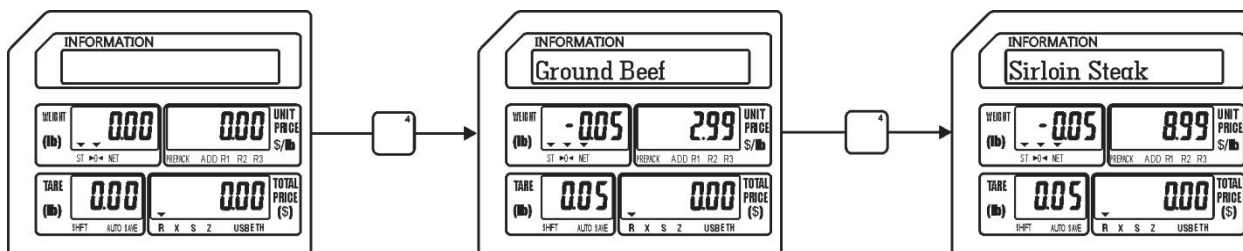
To recall a PLU using the pre-programmed Speed Keys, simply press the Speed Key with the desired PLU number assigned to it. Please note that when using multiple Speed Key levels the operation is affected by the setting of SPEC 073 (Combination Recall)

Ex.) Recall PLU #12 assigned to Speed Key 4 on level 1. (SPEC 073 = 0 or 1)



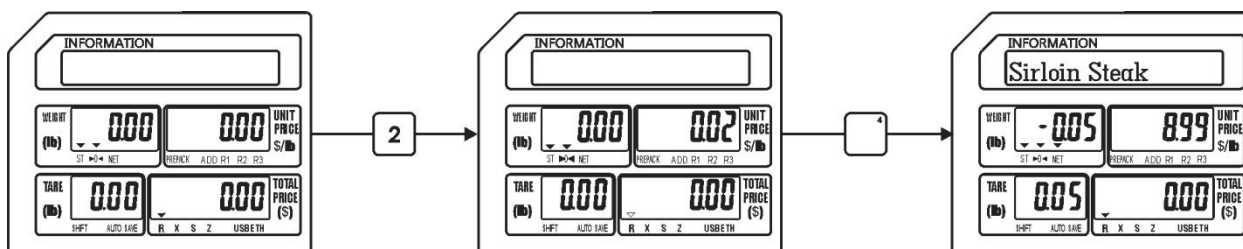
Ex.) Recall PLU #18 assigned to Speed Key 4 on level 2. (SPEC 073 = 0)

Action: Press Speed Key #4 twice (within 1 second) to recall the PLU on level 2.



call PLU #18 assigned to Speed Key 4 on level 2. (SPEC 073 = 1)

Action: Press the level number desired (level 2) using the numeric keypad, then press the Speed Key desired (#4).

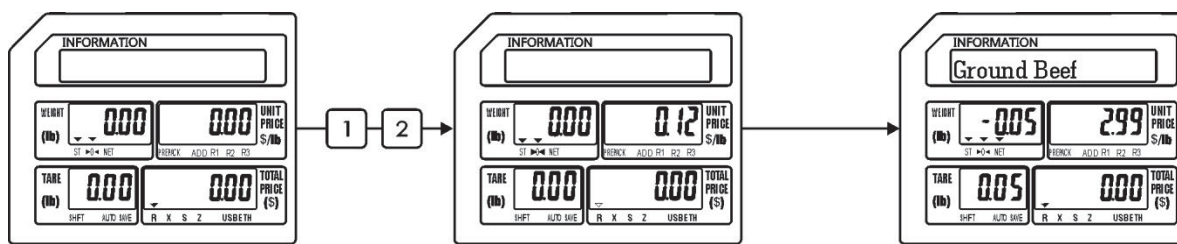


## 8.2.3 Using Automatic PLU Recall

## 8.2.3 Using Automatic PLU Recall

Recalling a PLU automatically requires that the automatic recall function in the SPEC program be enabled. (SPEC #071) When the function is enabled, you recall a PLU by entering the PLU number using the numeric keys. After the last number of the PLU is entered, there will be a slight delay (about 3 seconds) and then the PLU will be recalled automatically.

Ex.) Recall PLU #12



## 8.3 Using Tare Weight

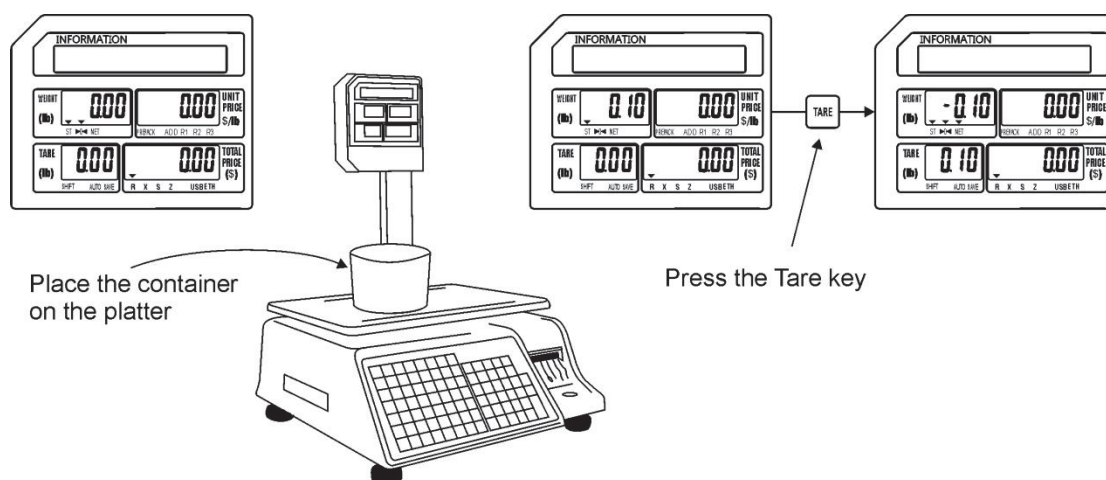
## 8.3 Using Tare Weight

There are three different types of Tare weight, a known Tare weight, an unknown Tare weight and a Preset Tare weight. The procedures to use and clear all three types are explained below.

- Notes:
1. The NET Tri-mark (▼) will be lit whenever there is any Tare weight used.
  2. To clear the Tare weight before weighing a PLU, remove the container from the platter and then touch the Tare key.
  3. The Tare weight will automatically be cleared after the transaction is complete.
  4. Touching the Save key while a Tare weight is present will retain the Tare weight even after the commodity has been removed from the platter.

## 8.3.1 Registering an Unknown Tare weight

An unknown Tare weight may be entered by placing the container on the platter and pressing the Tare key. After the Tare key has been pressed the Tare weight will be displayed in the Tare display window and the NET tri-mark (▼) will be lit.

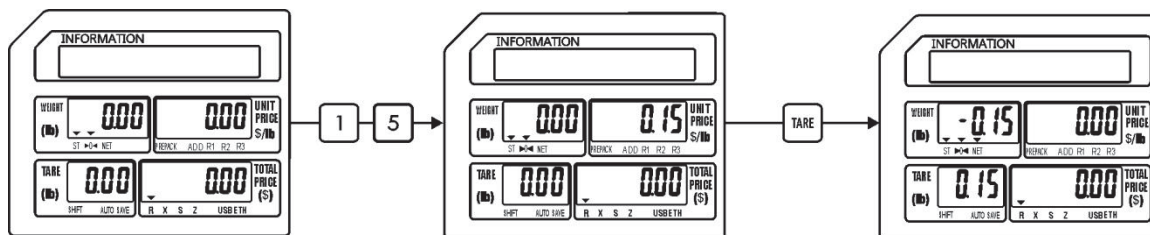


## 8.3.2 Registering a Known Tare weight

A known Tare weight may be entered using the numeric keys. Enter the Tare weight value using the numeric keys and then press the Tare key. After the Tare

## 8.3 Using Tare Weight

key has been depressed, the Tare weight will be displayed in the Tare display window and the Net tri-mark (▼) will be lit.

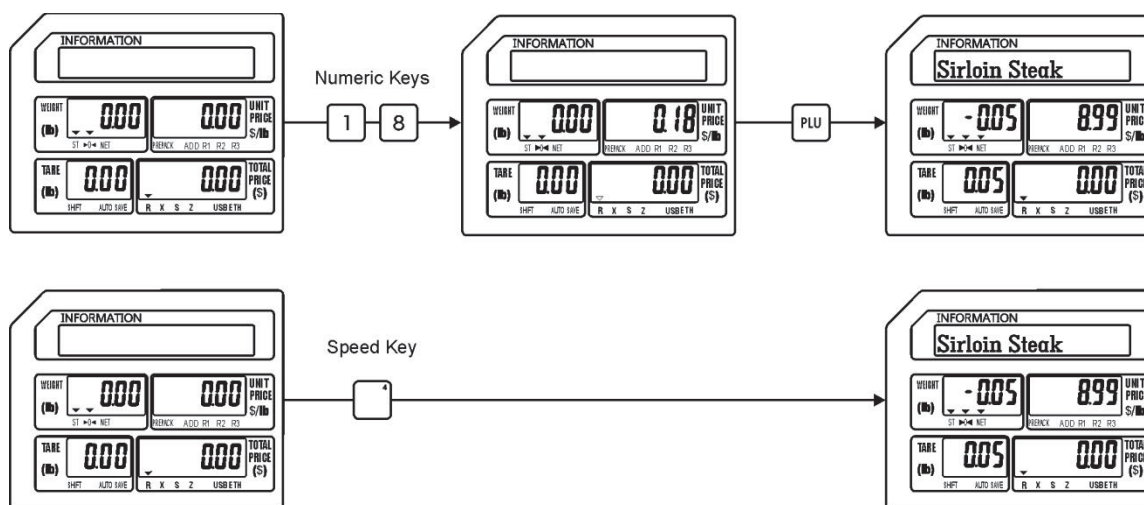


## 8.3.3 Using a Preset Tare Weight

## 8.3.3 Using a Preset Tare weight

Using a Preset Tare weight is accomplished by pre-programming the Tare weight for the PLU during the PLU programming steps (refer to S Mode - S1 PLU File). When the PLU is recalled, the Preset Tare weight is recalled with the PLU.

Ex.) Recall PLU #18 which has a Preset Tare weight of 0.10 lbs.



## 8.3.4 Clearing Tare Weights

All types of Tare weight will normally be cleared automatically upon completion of a transaction. The only time this will not happen is if the Save key has been depressed before the transaction or the scale is in the Prepack Mode of operation.

**Note:** The completion of a transaction is defined as the weighing of the commodity, the issuing of the label and the removal of the commodity from the platter and the label from the printer.

To manually clear a Tare weight before a transaction, simply remove the container (tare weight) and press the Tare key.

## 8.4 Sales Mode Operations

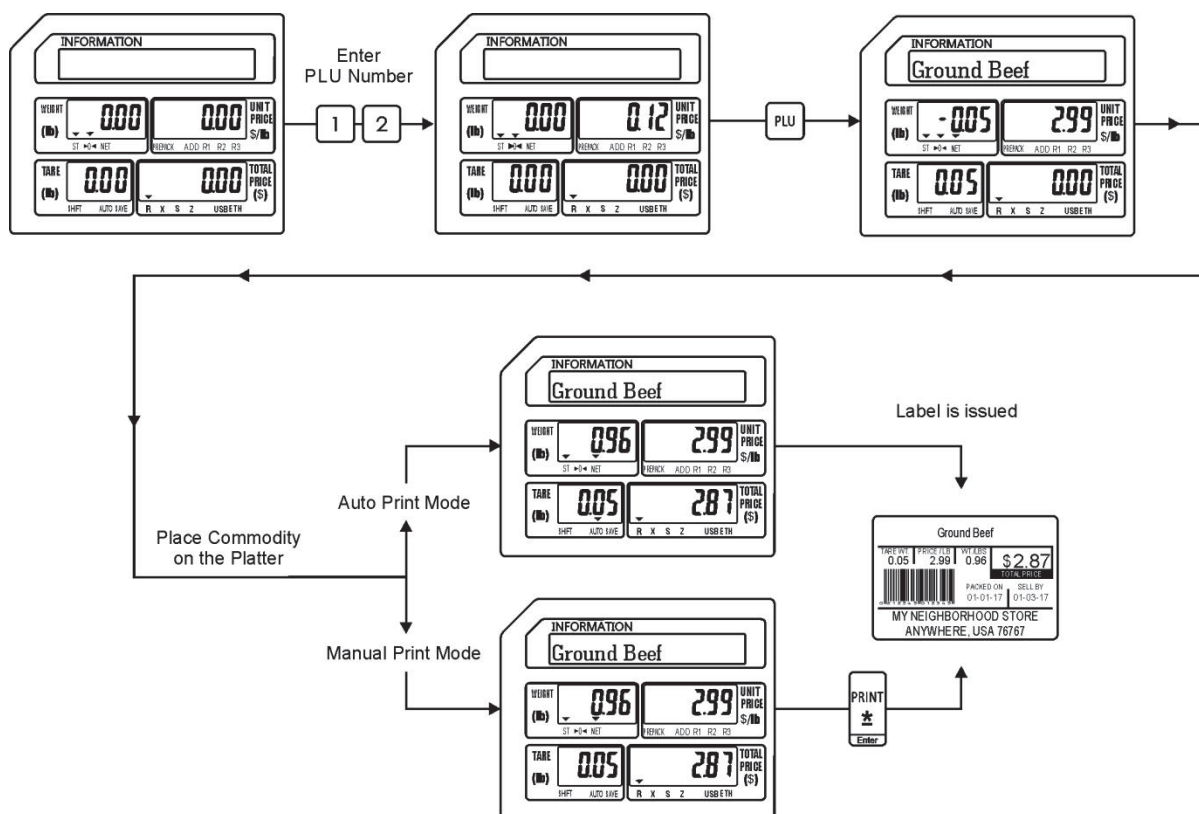
## 8.4 Sales Mode Operations

The procedures in the next sections explain the three normal modes of operation in the scale. They are the Weigh Mode, Non Weigh Mode and the By Count Mode. Each mode has a specific procedure that should be followed to ensure proper operation of the scale.

## 8.4.1 Weigh Mode PLU

The Weigh Mode is used to weigh an item for sale. An item that is to be weighed may have a Tare Weight associated with it. (refer to Section 8.3 Using Tare Weight)

Ex.) Recall the PLU for Ground Beef (PLU #12) which is sold by weight at \$2.99 per pound. The PLU has a Preset Tare Weight of -0.05lbs.



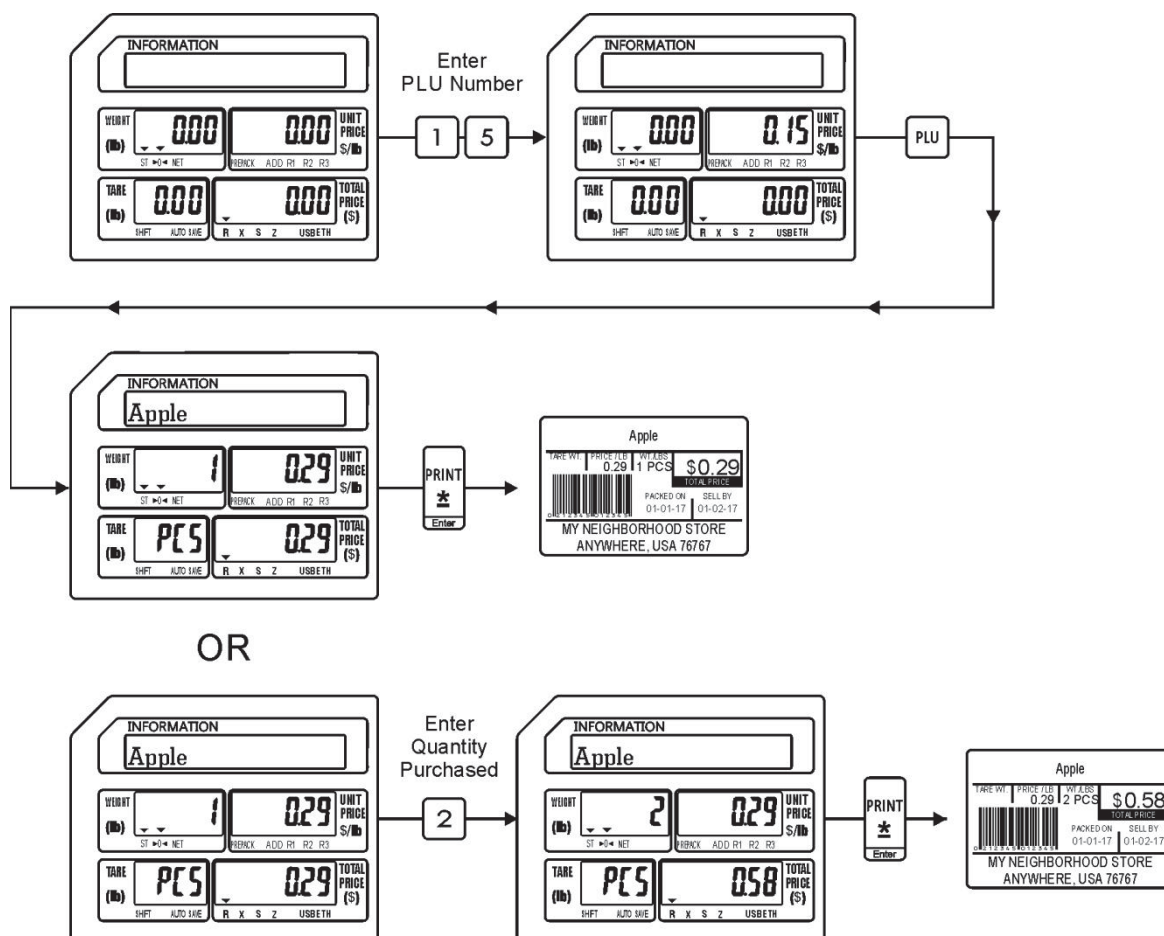
**Note:** To use the AUTO Print Mode it must be enabled prior to recalling the PLU. To enable the AUTO Print Mode simply press the AUTO key on the Operations keyboard. When the AUTO Print Mode is enabled the AUTO tri-mark will be lit.

## 8.4.2 Non Weigh Mode Operations

## 8.4.2 Non Weigh Mode PLU

The Non Weigh Mode is used to issue a label for an item that isn't sold by weight. Usually Non Weigh Mode items are sold by pieces with a certain value placed on each piece. In the example below the Non Weigh item is Apples.

Ex.) Recall PLU#15 for Apples which is sold by the piece at a price of \$0.29 each.



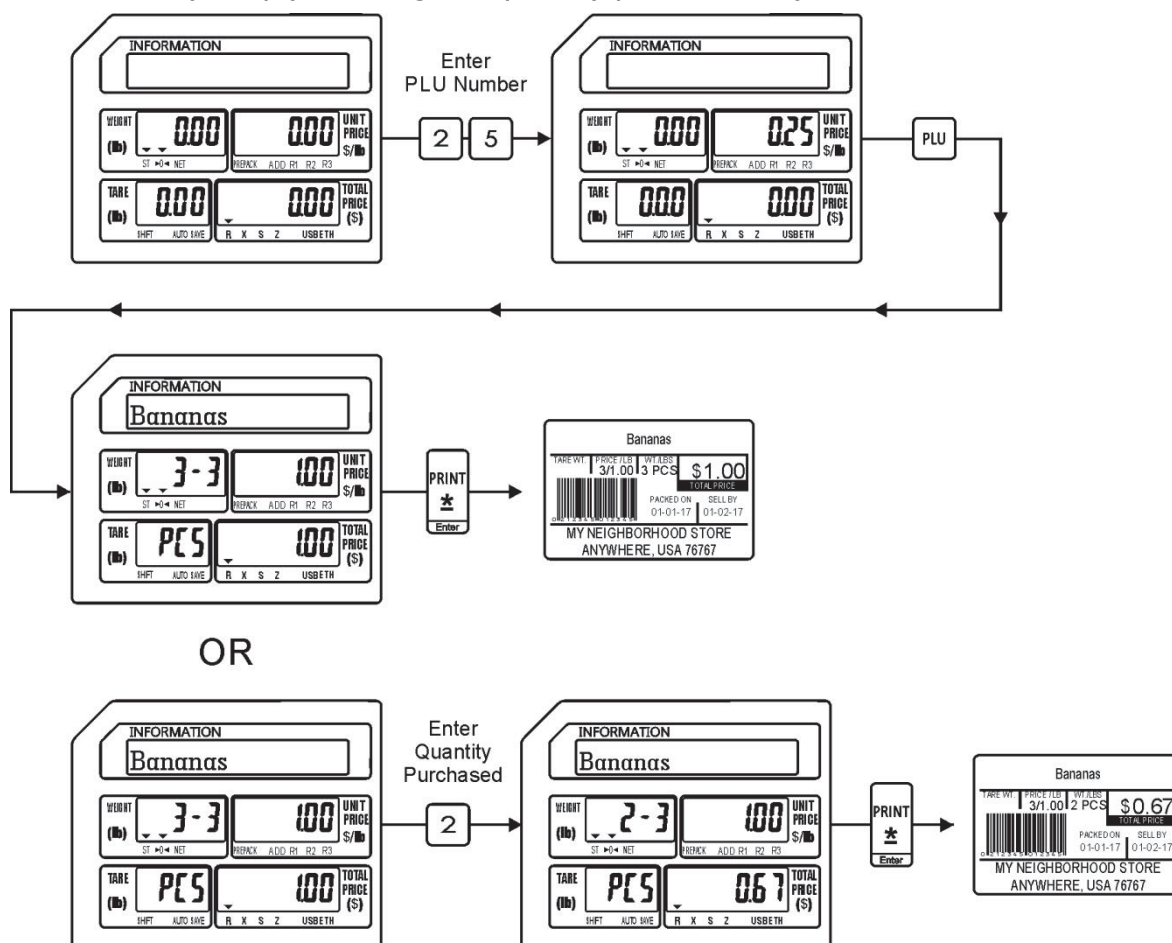
**Note:** There is no difference between the AUTO Print Mode and the Manual Print Mode in the Non Weigh Mode operation. In the example there are two methods, one shows the procedure used to sell a single item and the second shows the procedure to sell multiple items at the same time to a customer.

## 8.4.3 By Count Mode Operations

## 8.4.3 By Count Mode PLU

A By Count Mode PLU is an item that is similar to a Non Weigh Mode item because it is also sold by pieces and not weight. The difference between the two modes is that the By Count Item is usually sold or packaged in multiple pieces for a price. The By Count Mode operation allows you to sell the whole packaged item or split the item and sell it based on a per piece value.

Ex.) A customer is purchasing bananas that are priced at 3 for \$1.00 and they are purchasing 3 bananas. In the second part of the example the customer is purchasing the same bananas priced at 3 for \$1.00 but they only want to purchase 2 bananas instead of 3. The By Count Mode allows you to split the item by simply entering the quantity purchased by the customer.



Note: There is no difference between the AUTO Print Mode and the Manual Print Mode in the By Count Mode operation.

## 8.5 Using the Override Key

## 8.5 Using the Override Key

The Override key is usually used to temporarily make changes to the Unit Price, Tare weight or Quantity information in a recalled PLU. When using the Override key the R1, R2 and R3 tri-marks (▼) will be lit to signify which input area is being changed. Refer to the chart below.

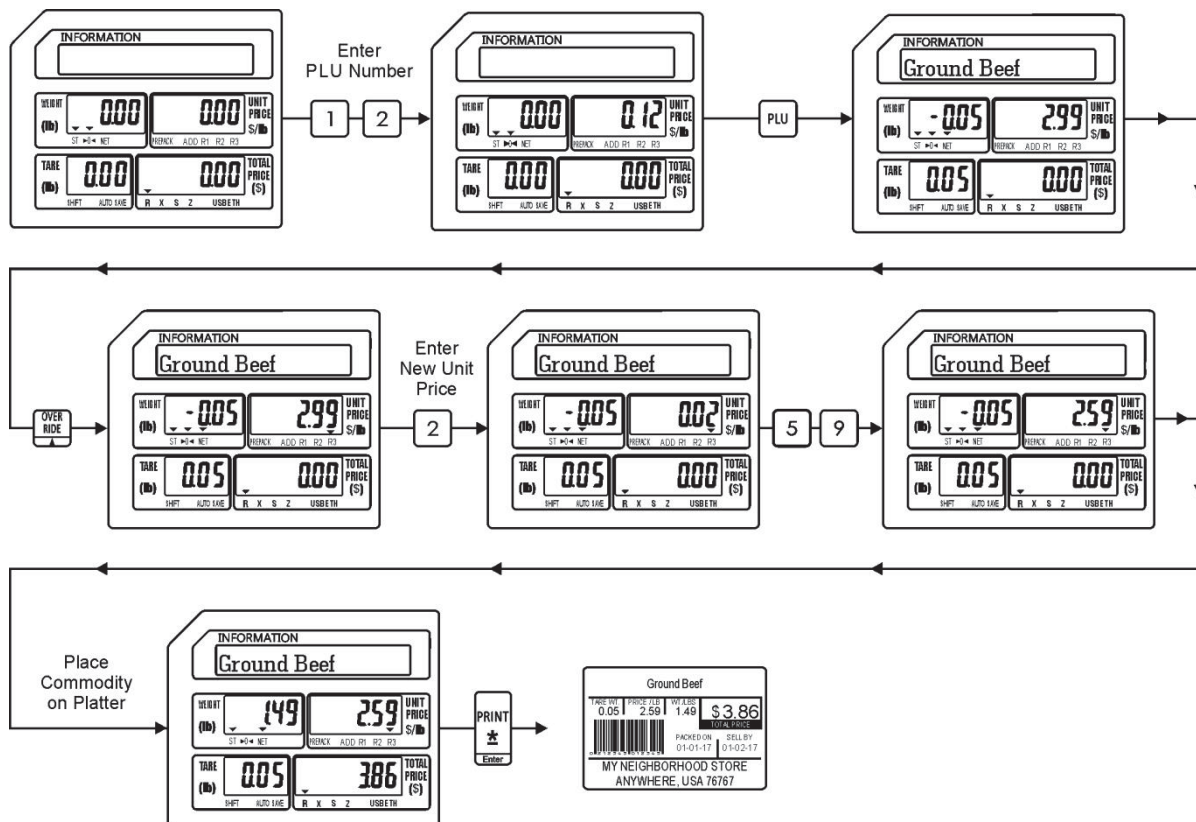
|                                    | R1                | R2                 | R3         |
|------------------------------------|-------------------|--------------------|------------|
| Weigh Mode (without Tare Override) | Not Used          | Not Used           | Unit Price |
| Weigh Mode (with Tare Override)    | Tare Weight       | Not Used           | Unit Price |
| Non Weigh Mode                     | Quantity          | Not Used           | Unit Price |
| By Count Mode                      | Purchase Quantity | Priced at Quantity | Unit Price |

Note: A password may be required to use the Override Key.

## 8.5.1 Weigh Mode Override

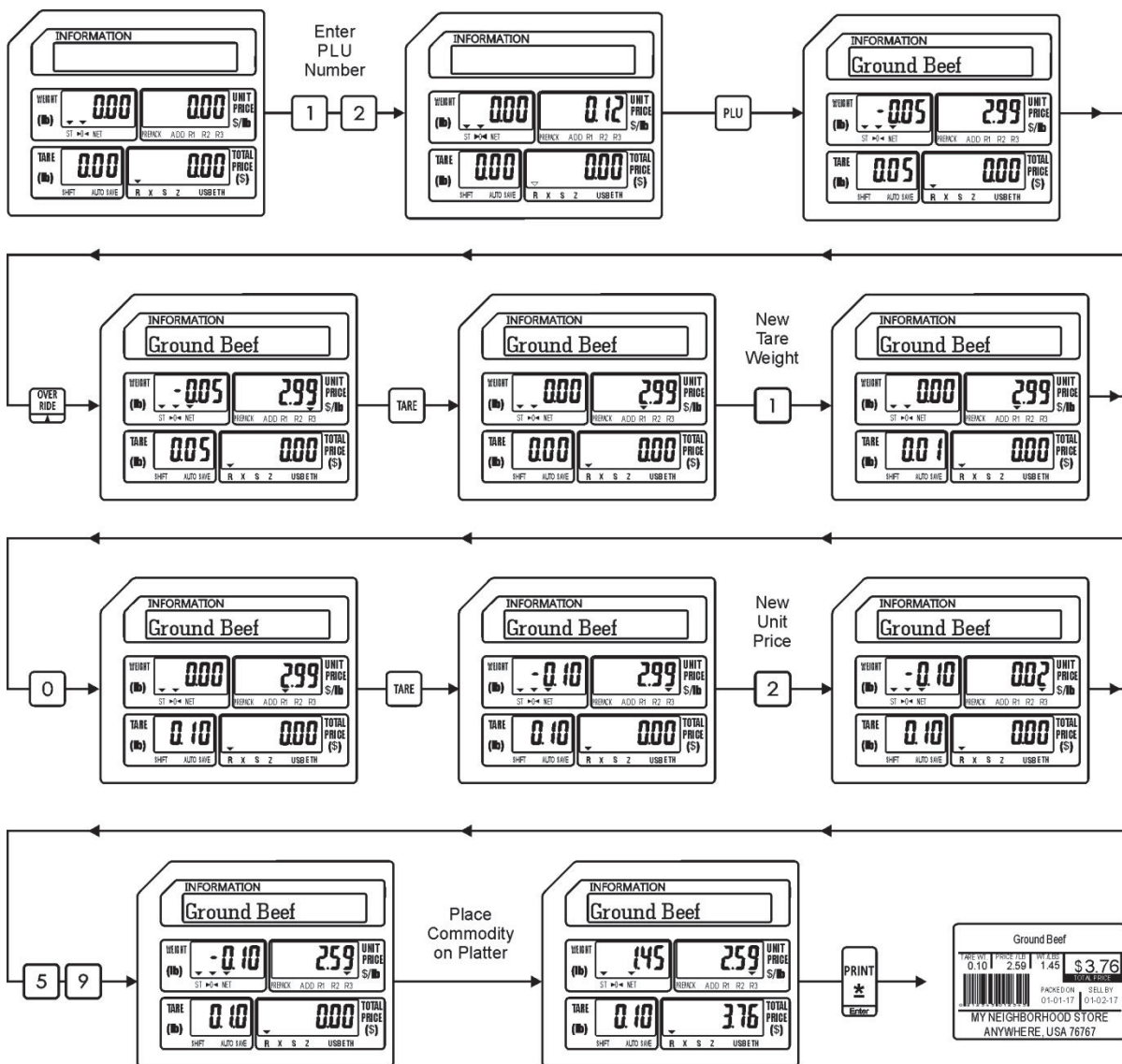
Using the Override key on a normal Weigh mode type PLU allows you to temporarily change the Unit Price and Preset Tare weight for that PLU.

Ex.) Override just the Unit Price for PLU #12 Ground Beef which has a Preset Tare weight of -0.05 lbs and a Unit Price of \$2.99 /lb with a new Unit Price of \$2.59 /lb.



## 8.5.1 Weigh Mode Override

Ex.) Override the Preset Tare weight and Unit Price for PLU #12 Ground Beef which has a Preset Tare weight of -0.05 lbs and a Unit Price of \$2.99 /lb with a new Tare weight of -0.10 lbs and a new Unit Price of \$2.59 /lb.

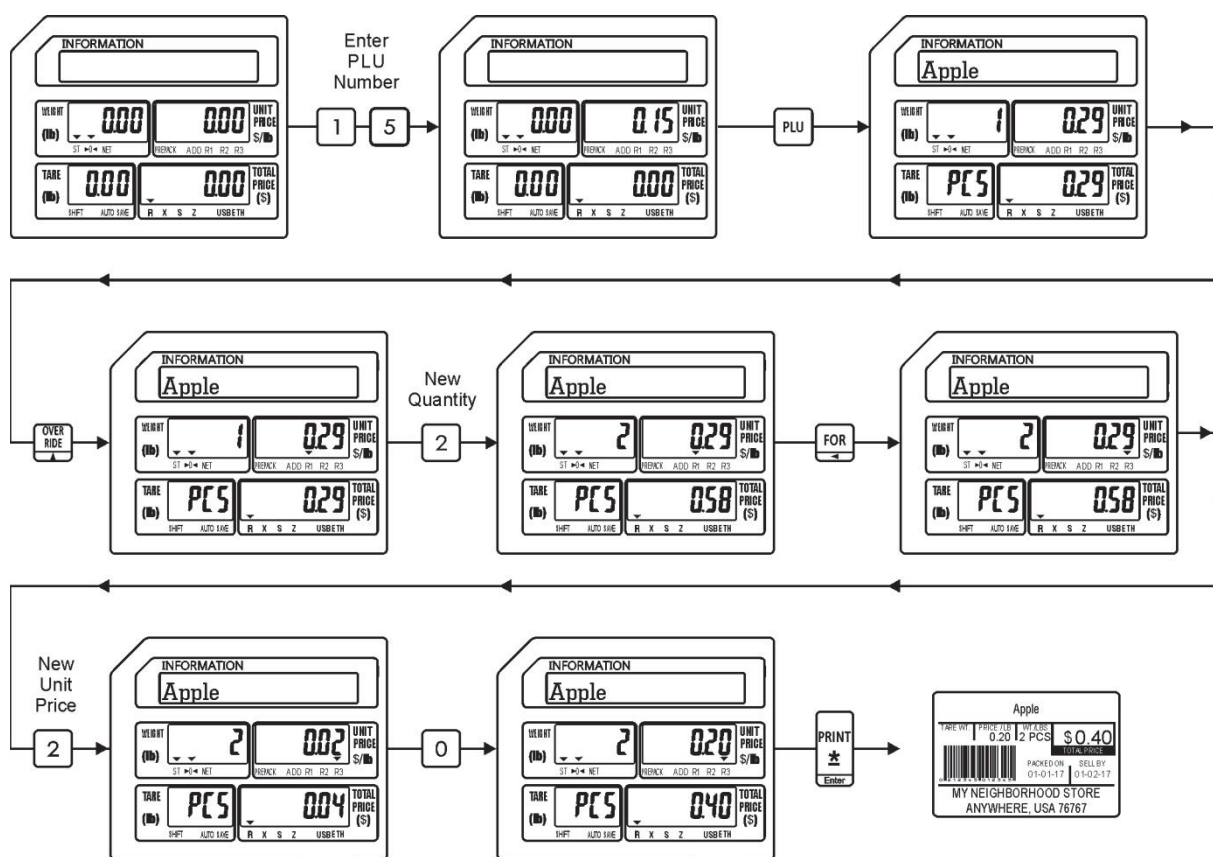


## 8.5.2 Non Weigh Mode Override

## 8.5.2 Non Weigh Mode Override

In the Non Weigh mode the Override key can be used to change the Quantity Purchased and the Unit Price of the recalled PLU.

Ex.) Override the Quantity Purchased and the Unit Price for PLU #15 Apple, which is normally priced at 1 for 29 cents with a new Quantity of 2 and a new Unit Price of 20 cents.

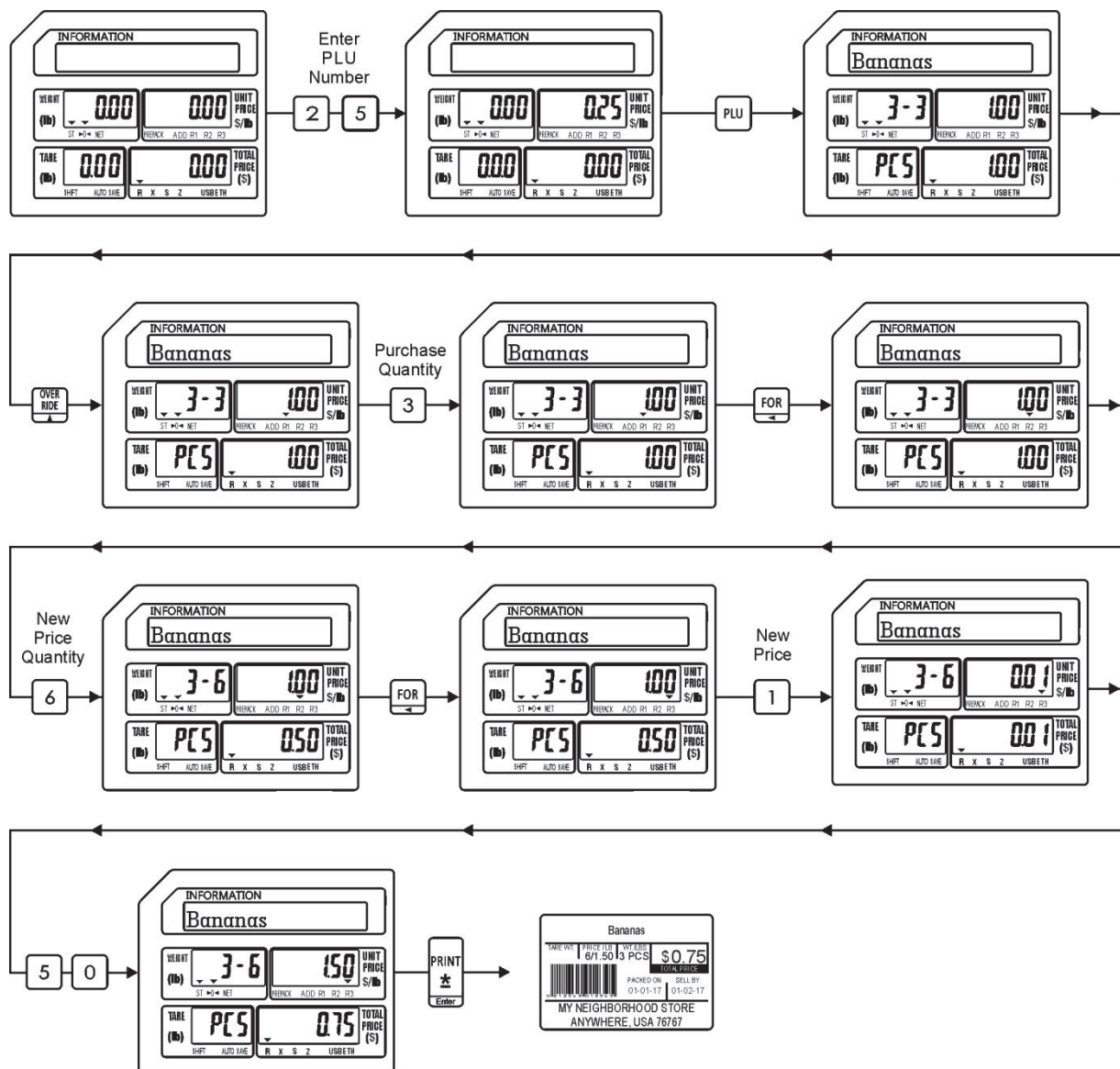


## 8.5.3 By Count Mode Override

## 8.5.3 By Count Mode Override

In the By Count mode the Override key allows you to change the Quantity Purchased, the Priced at Quantity and the Unit Price of the recalled PLU.

Ex.) Override only the Priced at Quantity and the Unit Price of PLU #25 Bananas, which are normally priced at 3 for \$1.00 with a new Priced at Quantity of 6 and a new Unit Price of \$1.50.



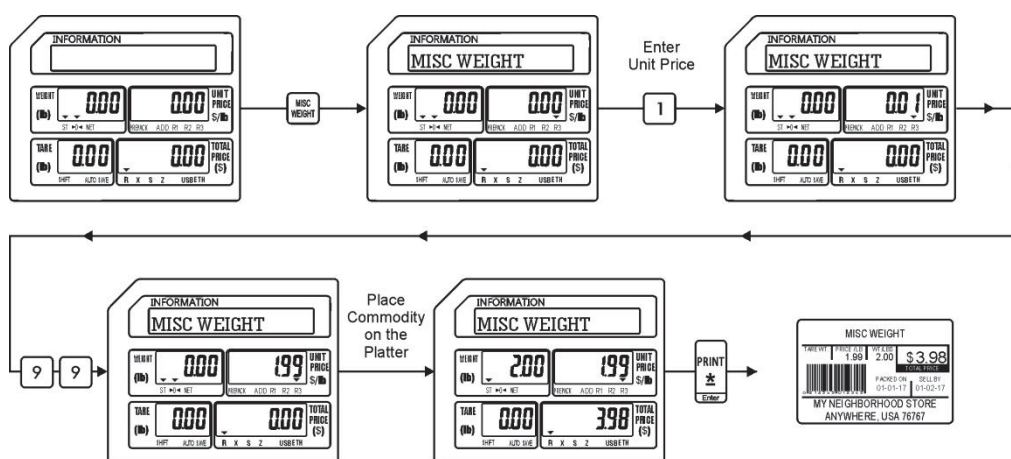
## 8.6 Miscellaneous PLU Operations

## 8.6 Miscellaneous PLU Operations

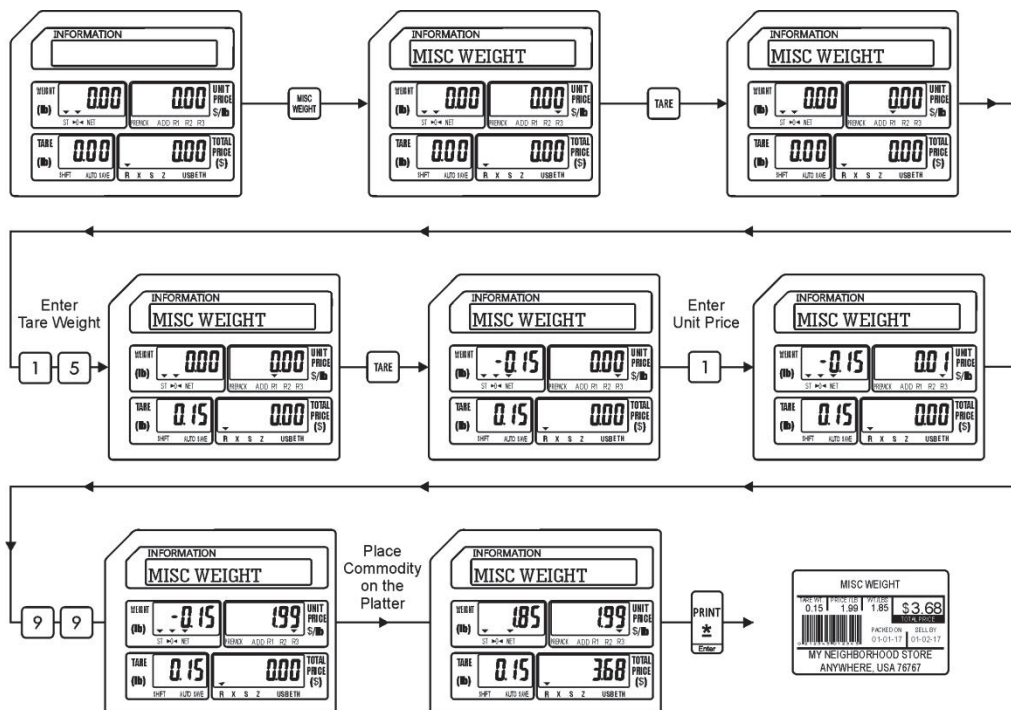
There are three Miscellaneous (MISC) PLU keys available to use when a PLU has not been programmed for a particular item in the scale. By using one of the three individual MISC keys, items may be sold as a Weighed, Non Weighed or By Count type PLU.

Note: The MISC keys may be programmed to require a password.

## 8.6.1 MISC Weigh Mode (without Tare Weight)

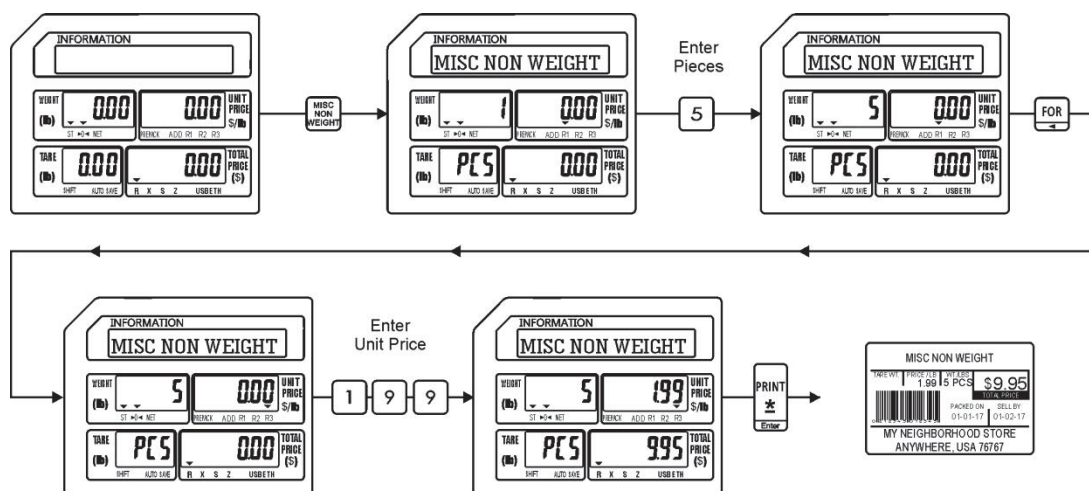


## 8.6.2 MISC Weigh Mode (with Tare Weight)



## 8.6.3 MISC Non Weigh Mode Operations

## 8.6.3 MISC Non Weigh Mode



## 8.6.4 MISC By Count Mode

