

DENVER INSTRUMENT COMPANY

AC SERIES

Top Loading Electronic Balances

Operating Instructions

600482.1

SPECIFICATIONS

Denver Instrument AC Series

<u>MODEL</u>	<u>CAPACITY</u>	<u>SENSITIVITY</u>	<u>PAN SIZE</u>
ACA-100	100 g	0.0001 g	3 1/4" (8.3cm)
AC-400	400 g	0.001 g	4" (10.2 cm)
AC-800	800 g	0.01 g	5 1/2" (14 cm)
AC-2200	2200 g	0.01 g	5 1/2" (14 cm)
AC-4K	4000 g	0.01 g	8x9" (20x23 cm)
AC-5K	5000 g	0.1 g	8x9" (20x23 cm)
AC-8K	8000 g	0.1 g	8x9" (20x23 cm)
AC-12K	12000 g	0.1 g	8x9" (20x23 cm)
AC-400D	400/100 g	0.01/0.001 g	4" (10.2 cm)
AC-1200D	1200/120 g	0.01/0.001 g	5 1/2" (14 cm)
AC-2KD	2000/200 g	0.01/0.001 g	5 1/2" (14 cm)
AC-4KD	4000/400 g	0.1/0.01 g	8x9" (20x23 cm)
AC-8KD	8000/800 g	0.1/0.01 g	8x9" (20x23 cm)

Common Specifications and Features For All AC Series Models

Electrical Requirements 115/230 vac 50/60 Hz*

Response Time Variable, 2-5 seconds

Controls Silicone Rubber Keyboard, 26 Keys plus Tare

Display, Numeric5" Vacuum Fluorescent, seven segment character

Display, Message25" Vacuum Fluorescent, 14 segment, 10 characters

Multiple Functions

Statistical Analysis

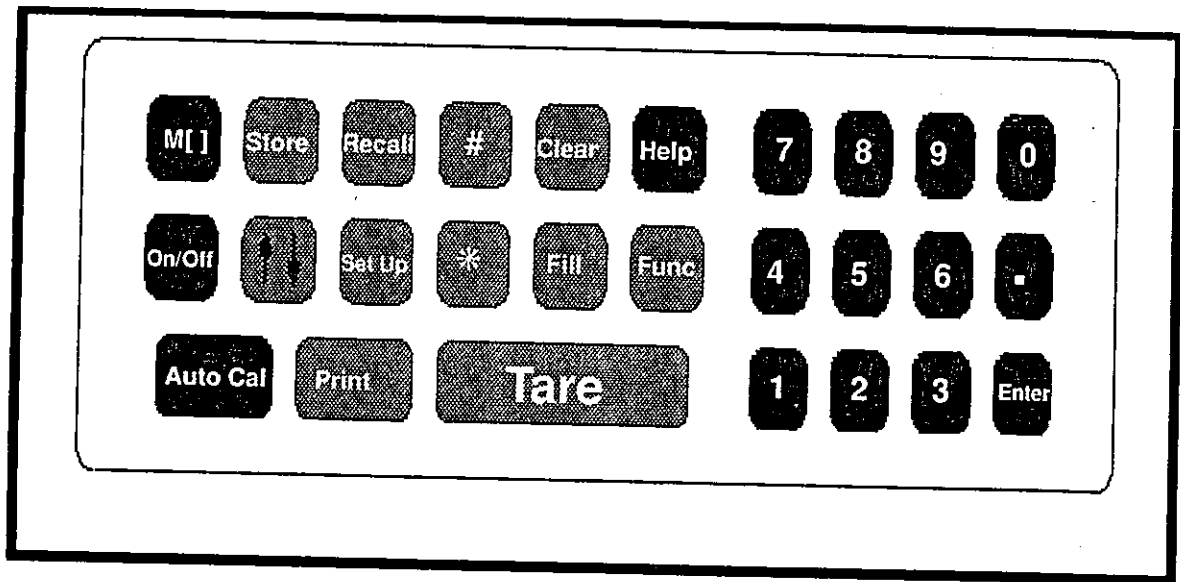
RS-232 Bi-directional Interface, 5 different formats

Automatic Calibration

Counting

* Models **ACA-100** and **AC-2KD** use an external transformer.

AC Keyboard



Function Keypad

Numeric Keypad

Keyboard Description

The keys are used individually and in combination with other keys to perform the various balance operations.

The function keys are used to set your balance parameters or to activate certain balance operations. See the appropriate section of your manual for the necessary key strokes.

The numeric keypad is used to enter data and to recall stored values.

Use the **Help** key to obtain balance information.
(See page 18 for additional directions.)

Use the **Tare** key to zero the display before weighing or to exit any menu during Set Up. (See page 19.)

Auto Cal

All balances are calibrated at the factory prior to shipment. However, you should calibrate your balance before using it for the first time and you should periodically check calibration to ensure accuracy. We recommend that you check the calibration once a week or whenever the balance has been moved or excessive temperature variations have occurred. Use only calibrated weights. Calibrated weights may be purchased from your **Denver Instrument** representative.

The Auto Cal allows you to permanently change the scale factor adjustment without making a potentiometer adjustment or using other equipment. Use only permissible weights for calibration. To view permissible weights for your model, press the **Help** key and then the **Auto Cal** key. The Message Display then shows the permissible weights.

Calibration is **not** possible if the balance is **not** stable. In addition, the balance displays *NO CAL* and does **not** complete calibration if weights being used are out of range or the balance capacity is exceeded.

PROCEDURE

1. Press the **Tare** key.
2. Place calibration weight on pan.
3. When the unstable indicator disappears, press the **Auto Cal** key.
4. When calibration is complete, remove weight.

MESSAGE DISPLAY SHOWS

TARING

CAL

CAL -value-

It is possible to use other standards for calibration when a standard permissible weight is not available. (See Example 3 in Appendix C.)

Using Your Balance For Basic Weighing Applications

If you have properly installed your balance, have allowed adequate warm-up time, and have checked the calibration, you are now able to do any basic weighing application without further adjustments. The factory settings (see page 12) are automatically activated when the balance initially is powered up.

- ✓ Use the **Func** key to advance to one of the pre-set weighing modes - Gram or Ounce.
- ✓ Press the **Tare** key to zero the Numeric Display.
- ✓ Place your sample on the weighing pan and wait for the unstable indicator (*U*) to disappear on the Message Display.
- ✓ Record the results shown on the Numeric Display.
- ✓ Continue by placing another sample on the weighing pan.

Doing a simple weighing task

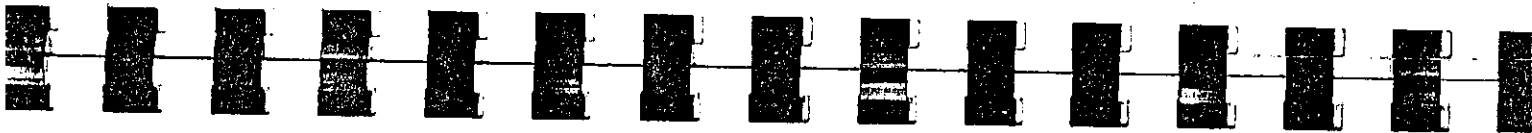
Help Key

The **Help** key assists you by giving a description of a selected key or function and how it is used. The information scrolls across the Message Display for easy reading.

PROCEDURE

1. Press the **Help** key.
- 2a. Press the key in question.
or
- 2b. While in a function, press the **Help** key for information on how to continue.
A programmed message scrolls across the Message Display.
3. To stop the scrolling Help message, press the **Tare** key. The message stops and the balance returns to normal operation.

Using the Help Key



Tare Key

Press the **Tare** key during a weighing operation to zero the balance. Tare (zero) the balance before beginning any weighing operation.

Using the Tare Key

Press the **Tare** key during a Set Up procedure to exit that operation.

Taring (Zeroing)

Balances have tare capabilities up to their total weight capacity. (Check your balance capacity with the specifications for your model on page 2.)

If you Tare the balance while it is unstable, the Displays show



until the balance becomes stable. To weigh a sample in its container with the Numeric Display showing the actual weight of the sample, use the following Tare Procedure:

PROCEDURE

1. Place sample container on pan, wait for the unstable indicator (U) to disappear, and then press the **Tare** key.
2. Now place sample in its container on the pan.
3. When the balance is stable, the Numeric Display shows the weight of the sample.

(See Example 2a in Appendix C.)

Read all instructions prior to operating your balance! Remember, this is a precision weighing instrument and should be handled with care.

NOTICE

Strict compliance with all warranty stipulations must be maintained or warranty service will be voided. Repair or internal adjustments performed by unauthorized personnel may cause serious damage and will void the warranty.

For your reference and protection, record:

Model Number _____

Serial Number _____

Purchase Date _____



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Congratulations on choosing a **Denver Instrument AC Balance**. Your **AC Balance** is a precision unit designed and engineered to the most rigorous standards in order to give you years of weighing service.

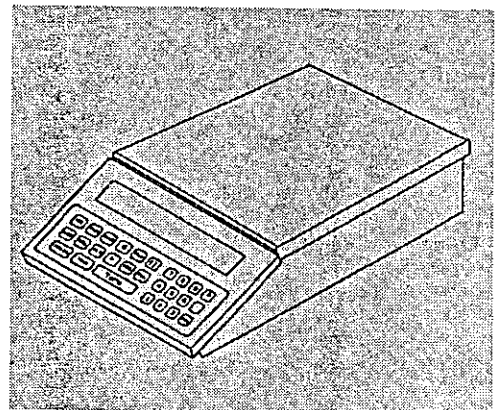
- ✓ First, check the contents of the shipping carton. You should find the following:

- AC Manual
- AC Balance
- Weighing Pan
- Power Cord
- (Power Transformer for AC-2K and ACA-100)

- ✓ Next, follow the instructions for installing your balance. (See pages 4 - 5.)

- ✓ Now you're ready to begin using your **AC Balance**. To take advantage of its many features, carefully read your operating manual. It contains step-by-step procedures, examples, and other vital information.

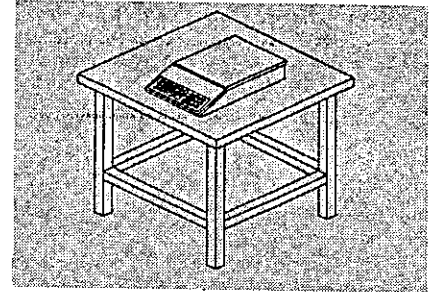
- ✓ Finally, remember to return your completed warranty card within ten days and to record all purchase information in the space provided inside the front cover of your manual.



PREPARATION

Select a suitable work area.

- ✓ Work area should be relatively free from drafts and vibrations.
- ✓ Work surface should be level and rigid.
- ✓ Line voltage to the balance should be reasonably constant and free from fluctuations. It is **not** advisable to use an outlet that is shared with fluorescent fixtures or other electrical equipment that draws voltage in an inconsistent manner.
- ✓ Do **not** locate near magnetic materials or equipment/instruments which use magnets in their design.
- ✓ Avoid areas which have variations in room temperatures or have excessive room temperatures. Room temperatures above 105°F/40°C or below 60°F/15°C could affect balance operation and accuracy.



Choose your work site carefully to obtain the best weighing results.

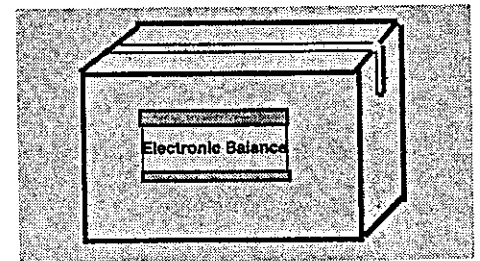


INSTALLATION

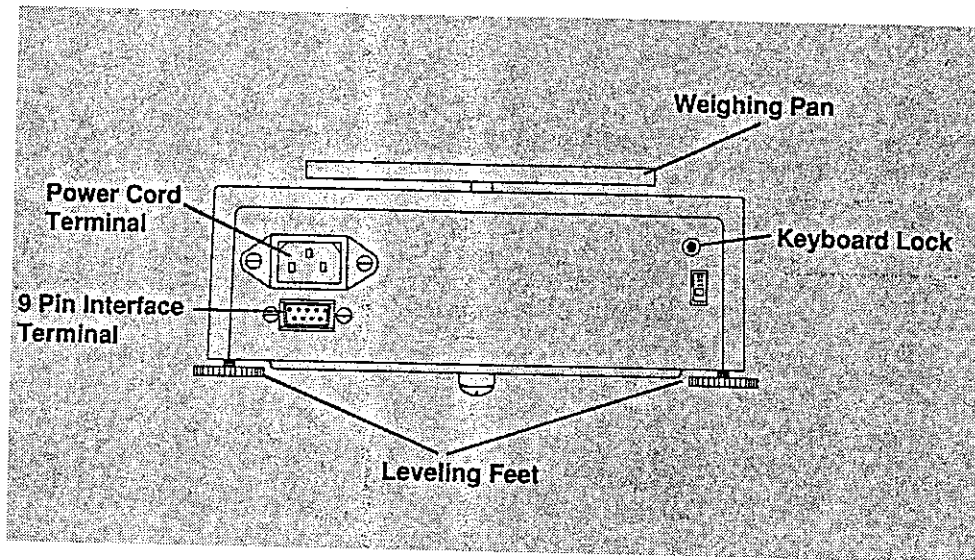
Set up your balance by following these steps:

(See illustration on page 6.)

- ✓ Remove balance and all accessories from the carton. There are no internal packing or tie downs inside the balance.
- ✓ Level the balance by using the level bubble and the leveling feet located underneath the base.
- ✓ Place the weighing pan on the balance.
- ✓ Insert power cord into the receptacle located on the rear panel of the unit. Firmly push in the plug. (Models AC-2KD and ACA-100 use a power transformer.)
- ✓ Balance model designation is displayed during start-up message.
- ✓ Allow a 60 minute warm up period.
- ✓ Do not unplug your balance. Denver Instrument Electronic Balances are designed to be continuously plugged in with power supplied to the unit at all times.
- ✓ When the unit is not in use, press the **On/Off** key to turn the displays OFF.



This is a precision electronic instrument. Handle with care to ensure years of trouble-free use.



Follow instructions on page 5 for properly installing your AC Balance.



GENERAL INFORMATION

Dual Display

Your balance features two displays (a Numeric Display and a Message Display) to give you complete weighing information.

Numeric Display

The Numeric Display continuously shows your weighing results.

The number of decimal places displayed depends on the balance model and the selected weigh mode.

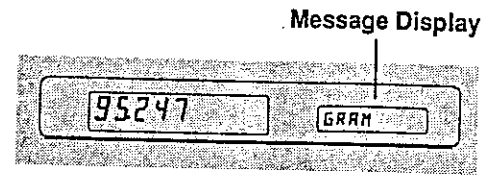
Numeric Display



Message Display

The Message Display combines text and numerals to clearly provide other weighing information. While a weigh mode is being used, the Message Display (in most operations) continues to show that mode. The Message Display shows text prompts during the following applications:

- Help Key Information
- Set Up Menus
- Fill Guide Settings
- Fill Guide Use

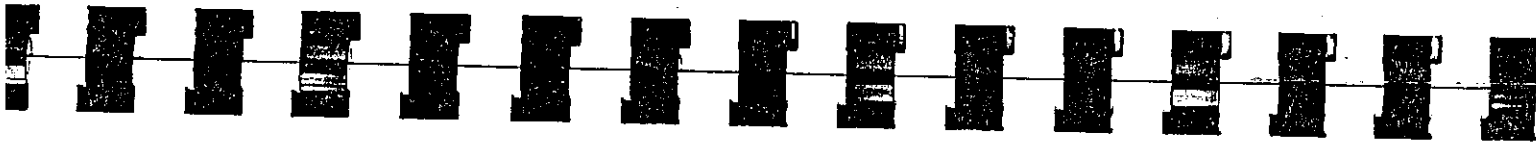


The Message Display shows numerals during the following applications:

- Fill Guide Values
- Statistical Analysis Calculations
- Multiple Tare Values
- Math Function Values

When you set the Fill Guide for use with bar indicators, the Message Display shows the Bar Graph when you turn ON the Fill Guide.

The Message Display shows the Unstable Indicator (*U*) when the balance is not stable.



Unstable Indicator

Always make sure your balance is stable before and after each step of your weighing operation.

The letter *U* appears on the far right side of the Message Display whenever the balance is not stable. It disappears when the balance becomes stable.



Unstable Indicator

Beeper

An audible Beep is emitted whenever a function is activated. This signal ensures you that the key you pressed is working. If you press a key and a BEEP is not heard, press the key again until the BEEP is heard. However, some keys are disabled in some functions and therefore will not BEEP.

To turn the BEEPER OFF or adjust its length, see the **Set Up-Display** Section.

Factory Settings

Your balance is pre-set at the factory to correspond to the most common user requirements. Listed below are the factory settings that are activated when the balance initially is turned on.

<u>Options</u>	<u>Setting</u>
Weigh Mode	Gram On Ounce On
Deviation Formula	Standard Deviation
Filter	Filter Normal
Auto-Zero	Auto- Zero On
Beeper	Beeper Short
Range	Automatic Range
Print	Single
Baud	Baud 300
Print Format	Type 1
Zero Print	Zero Print On
Parity	Parity Off
Interval	No Interval

Additional settings are listed in the **Weigh Mode** and **Set Up** sections of this manual. You can easily change the factory settings to any of these options by following the procedure outlined in that section. For a complete list of all the settings available on your **AC Balance**, see **Appendix A**.

Dual Range

Five **AC** Models are designed as dual range balances:

AC-400D

AC-1200D

AC-2KD


AC-4KD

AC-8KD

These models provide a fine range to increase readability by a factor of 10. In the Set Up Menu (See page 26), you can program the dual range models for Automatic Range Change or Manual Range Change.

AUTO R (Automatic Range) allows the balance to change from fine range to coarse range when the fine range is exceeded.

MANUAL R (Manual Range) keeps the balance in the fine range.

Press the  key to change range. However, when changing to the fine range, make sure the weighing pan is empty and the samples to be weighed do not exceed the fine range capacity.

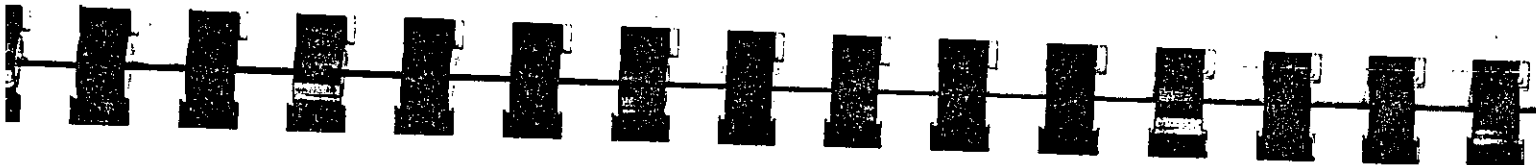
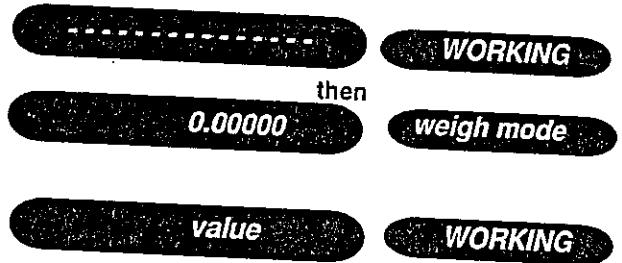
Dual Range cont.

The position of the decimal point on the Numeric Display identifies the weighing range. One decimal place is added when weighing in the fine range.

When your balance is changing range, the displays show when the balance is unstable

or

when the balance is stable.



OPERATING YOUR AC BALANCE

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Weigh Mode Selection

Your balance is pre-set to weigh in two Weigh Modes when it is powered up. The Weigh Modes already turned *ON* are GRAM and OUNCE. If a different Weigh Mode is required, it must be turned *ON* in order to be used in a weighing application. All the Weigh Modes can be turned *ON* or any combination of them. To use any of the other weigh modes or to turn *OFF* any of the ones that are pre-set, use the following procedure.

PROCEDURE

1. Press the **Set Up** key.
2. Press the **Func** key to access the Set Up Menu and continue to press the **Func** key to cycle through the options.

CNT OFF (count off)	CRT OFF (carat off)
GRAM ON (gram on)	LB OFF (pound off)
DWT OFF (pennyweight off)	SCP OFF (scruple off)
OZ ON (ounce on)	DRM OFF (dram off)
OZT OFF (troy ounce off)	KG OFF (kilogram off)
GRN OFF (grain off)	MTHA OFF (math A off)
	MTHB OFF (math B off)

MESSAGE DISPLAY SHOWS

SET UP

CNT OFF

3. To change the On/Off option of any of the weigh modes, when the desired weigh mode is displayed as you cycle through the options, press the **▲▼** key. This procedure also turns the Math Functions (A, B) *ON/OFF*.
4. Press the **Tare** key to return to your weighing operation.

LB OFF

LB ON

Once the Weigh Modes have been turned *ON*, you can weigh in each of those modes by repeatedly pressing the **Func** key until the desired weigh mode is displayed. The balance now weighs in that mode until the **Func** key is again pressed to change to another weigh mode.

POUND

Place the sample on the pan and wait for the unstable indicator (*U*) to disappear. The Numeric Display now shows the weight while the Message Display continues to show the weigh mode.

POUND U

You can easily weigh the same sample in more than one weigh mode by pressing the **Func** key to advance to a different weigh mode. The balance automatically re-calculates the sample in this newly selected mode. However, only those weigh modes that have previously been turned *ON* for selection can be used as

Counting

The balance can be set to count identical pieces that are within its capacity and resolution. To use this function, your total sample weight must be less than the balance capacity and the weight of each piece must be greater than the resolution of the balance. (See page 2 for the specifications for your model.) Turn *ON* the COUNT Mode using the Weigh Mode Procedure (See page 20).

Use the following procedure for counting pieces:

PROCEDURE

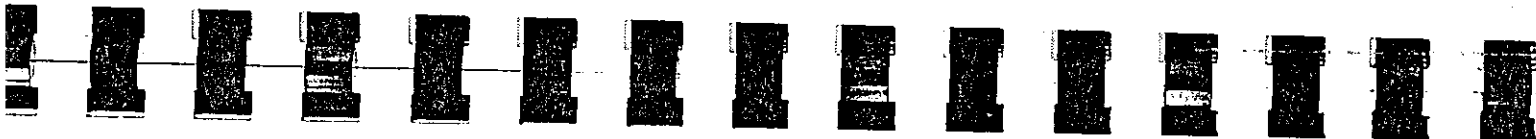
1. Press the **Func** key to set the balance in the Count mode.
2. Press the **Tare** key to zero the balance.
3. Place piece(s) on pan.
4. Using the numeric keypad, press the numeral keys representing the number of pieces and then press the **Enter** key.

MESSAGE DISPLAY SHOWS

COUNT

Your balance is now calibrated to display the correct count or portion of a count when individual pieces of the same weight are placed in the pan. This value remains in memory even if you switch to a Weigh Mode to check actual weight of the pieces being counted.

(See Example 2b in Appendix C.)



Percent Calculation

The Percent function is used to measure the percentage difference between a "standard" and an unknown weight. Turn *ON* the COUNT Mode using the Weigh Mode Procedure (See page 20) and then proceed as follows:

PROCEDURE

1. Press the **Func** key to set the balance in the COUNT mode.
2. Press the **Tare** key to zero the balance.
3. Place the "standard" weight on the pan.
4. Press the **Auto Cal** key.
100% is automatically programmed. The balance calculates the maximum accuracy possible and displays the results.
5. Remove "standard" weight from the pan and replace it with the unknown weight. When the balance is stable, the Numeric Display shows percentage of weight compared to the "standard" weight. If the balance is Tared prior to removing the sample, results are given in percentage weight difference.
6. Continue weighing each sample for results in percentage.

MESSAGE DISPLAY SHOWS

COUNT

(See Example 2a in Appendix C.)



BALANCE CONFIGURATION

Using the Set Up Menus

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Beeper.... 31
Range..... 32

Set Up - Print

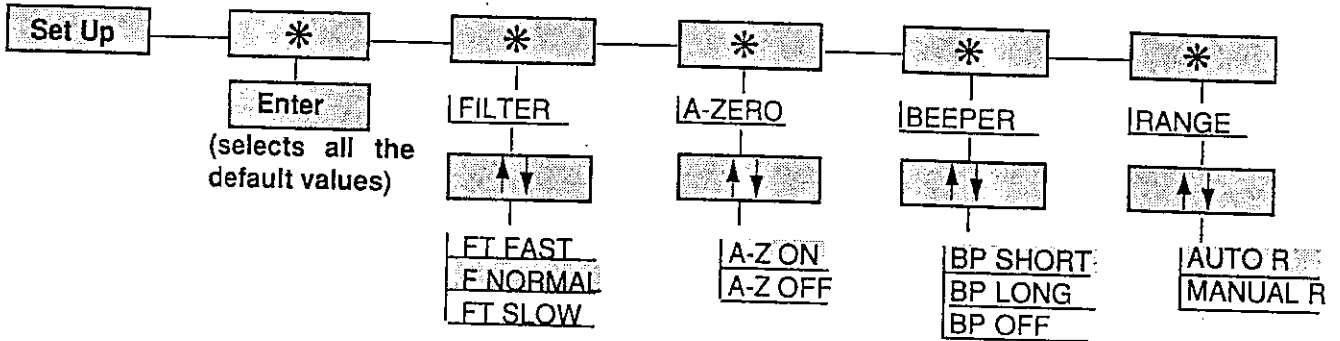
Print..... 34
Baud..... 37
Format.... 38
Zero Print... 40
Parity..... 41
Interval.... 42

Set Up

The **Set Up** key is used to access the Set Up-Display Menu and the Set Up-Print Menu. These menus provide other settings that you can select in order to adapt your balance to fit a particular weighing situation.

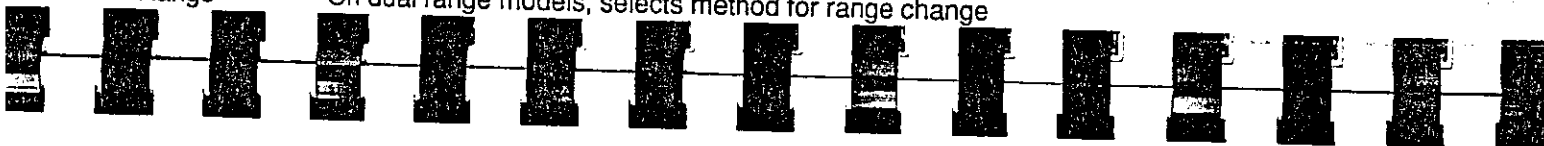
Set Up-Display

The shaded parameters indicate the factory settings.



The **Set Up** key and the ***** key are used to access the following options:

- Default Sets the parameters to default settings
- Filter Optimizes response to vibrations
- Auto-Zero Automatic re-zero of display
- Beeper Sets beeper control
- Range On dual range models, selects method for range change



Default Values

Initially, the Default Values are activated when your balance is powered up. These settings, listed below, remain in memory until changed by the user.

- Filter Normal
- Auto-Zero On
- Beeper Short
- Range Auto
- Print Single
- Baud 300
- Type 1 Output
- Zero Print On
- Parity Off
- Auto Print

If you change any of the settings and want to quickly return to all of the Default Values, use the following procedure:

PROCEDURE

1. Press the **Set Up** key.
2. Press the ***** key.
3. Press the **Enter** key to select all the Default Values listed above.

MESSAGE DISPLAY SHOWS

SET UP

DEFAULT

DEFAULT

Filter

It is possible to optimize the balance response to compensate for varying conditions, including building vibrations, drafts, surface vibrations, etc. Three settings are available - Filter Fast, Filter Normal, and Filter Slow.

- Filter Fast** Used under ideal conditions; provides the fastest response time; at this setting, the balance is much more susceptible to vibrations and drafts.
- Filter Normal** Used under standard lab conditions; operates at moderate speed.
- Filter Slow** Used in areas with vibrations and drafts; averages more readings at a slower rate.

We recommend that you try various Filter Settings to determine the most suitable setting in relation to your environment and/or usage.

PROCEDURE

1. Press the **Set Up** key.
2. Press the ***** key repeatedly to advance to *FILTER*.
3. Press the **↑↓** key repeatedly to cycle through the settings.

FT FAST
F NORMAL
FT SLOW
4. When the desired setting is displayed, press the **Enter** key to select it.
5. Either press the ***** key to advance to the next option or press the **Tare** key to exit the menu and return to the weighing mode.

MESSAGE DISPLAY SHOWS

SET UP

FILTER

setting

setting

A-ZERO

TARING

Auto-Zero

Auto-Zero helps maintain a zero display reading (when the balance has been Tared to zero) in a less than ideal weighing environment. This feature automatically corrects for zero drift or dust on the weighing pan.

A-Z ON (Auto-Zero On) Automatically compensates for zero drift.
 A-Z OFF (Auto-Zero Off) Turns off this correction feature.

PROCEDURE

1. Press the **Set Up** key.
2. Press the ***** key repeatedly to advance to *A-ZERO*.
3. Press the **▲▼** key repeatedly to cycle through the settings.

A-Z ON
A-Z OFF
4. When the desired setting is displayed, press the **Enter** key to select it.
5. Either press the ***** key to advance to the next option or press the **Tare** key to exit the menu and return to the weighing mode.

MESSAGE DISPLAY SHOWS

SET UP

A-ZERO

setting

setting

BEEPER

TARING



Beeper

The volume of the audible BEEPER can be adjusted or turned OFF. Three settings are available:

- Beeper Short Sets a softer tone for less than a second.
- Beeper Long Sets a louder tone for approximately one second.
- Beeper Off Turns off the tone.

PROCEDURE

1. Press the **Set Up** key.
2. Press the ***** key repeatedly to advance to *BEEPER*.
3. Press the **▲▼** key repeatedly to cycle through the settings.

BP SHORT
BP LONG
BP OFF
4. When the desired setting is displayed, press the **Enter** key to select it.
5. Either press the ***** key to advance to the next option or press the **Tare** key to exit the menu and return to the weighing mode.

MESSAGE DISPLAY SHOWS

SET UP

BEEPER

setting


setting

RANGE

TARING




Range

On dual range models, there are two settings:




Auto Range Sets your balance to automatically change range when lower capacity is exceeded; also, with this setting, use the  key to switch ranges.

Manual Range Keeps the balance from switching ranges when the capacity is exceeded; instead, the Message Display shows *OVER* when this occurs.

PROCEDURE

1. Press the  key.
2. Press the  key repeatedly to advance to *RANGE*.
3. Press the  key repeatedly to cycle through the settings.

AUTO R
MANUAL R

4. When the desired setting is displayed, press the  key to select it.
5. Either press the  key to begin the cycle again or press the  key to exit the menu and return to the weighing mode.

MESSAGE DISPLAY SHOWS

SET UP

RANGE

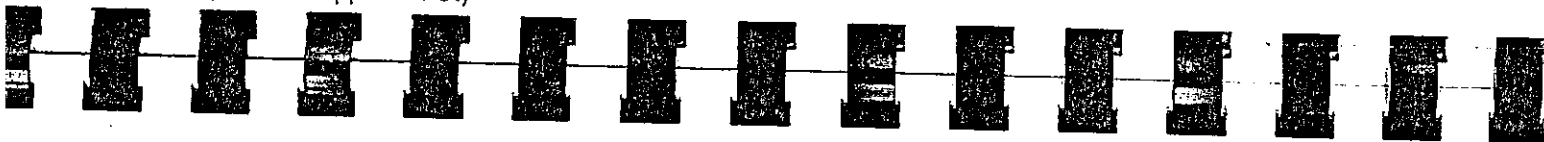
setting

setting

DEFAULT

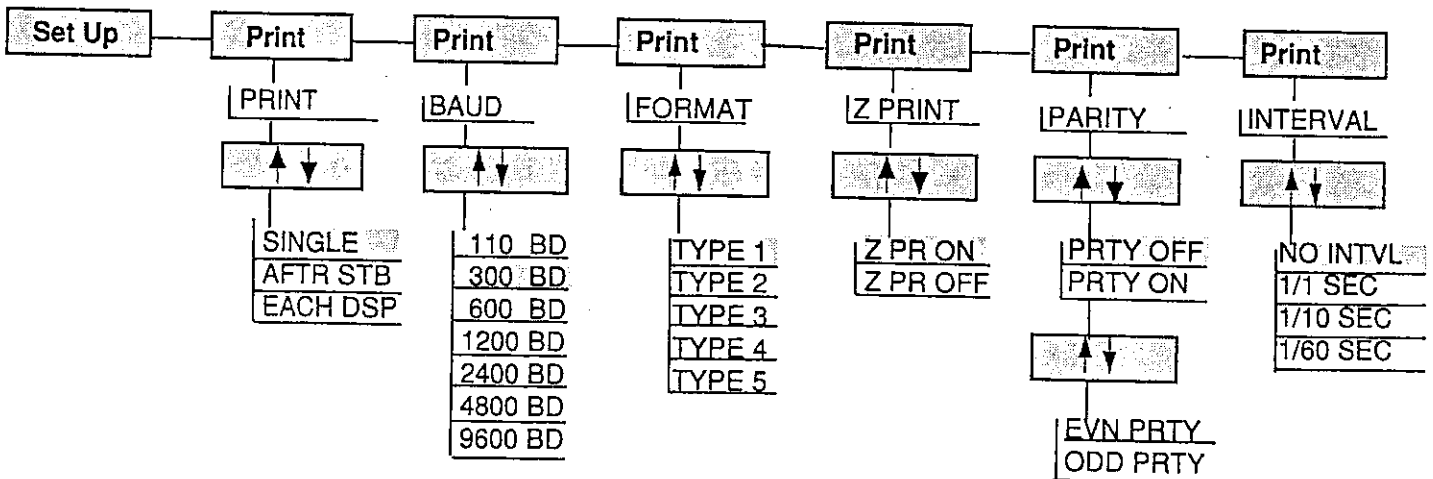
TARING

(See Example 1a in Appendix C.)



Set Up - Print

The shaded parameters indicate the factory settings.



Print Menu

The **Set Up** key and the **Print** key are used to access the Print Menu in order to make the following settings:

- Print Allows the balance to send data to a computer or printer when interfaced;
- Baud Sets the transfer rate unit for serial data transmission in bits/second.
- Format Sets the format for the type of I/O string.
- Zero Print Permits balance to print at zero weight
- Parity Permits recognition of simple bit errors in data transmissions.
- Interval Adapts data transfer to match receivers of different speeds.



Print

The Print Option allows you to select from three modes of printing a data string when the balance is interfaced to a computer or printer.

- Single: Sends a single data string from balance to printer or computer when the **Print** key is pressed.
- After Stability: Automatically sends a single data string after the display stabilizes.
- Each Display: Continually sends a signal through the I/O port.

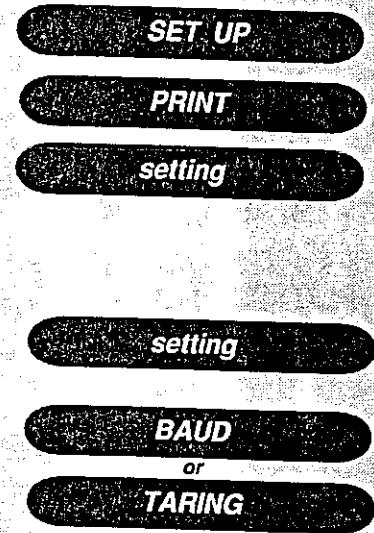
To change the Print setting, use the procedure on the following page.

PROCEDURE

1. Press the **Set Up** key.
2. Press the **Print** key to advance to *PRINT*.
3. Press the **↑↓** key to cycle through the settings.
SINGLE
AFTR STB
*EACH DSP**
4. When the appropriate setting is displayed, press the **Enter** key to select it.
5. Either press the **Print** key to advance to the next option or press the **Tare** key to exit the menu and return to the weighing operation.

* This option must be selected if you plan to adjust the interval setting.

MESSAGE DISPLAY SHOWS



Baud

The rate at which data is input to and output from the balance can be selected. Choose the baud that matches the setting on the printer or computer used with your balance. Seven choices are available.

PROCEDURE

1. Press the **Set Up** key.
2. Press the **Print** key repeatedly to advance to *BAUD*.
3. Press the **↑↓** key to cycle through the settings.
110 BD 2400 BD
300 BD 4800 BD
600 BD 9600 BD
1200 BD
4. When the appropriate setting is displayed, press the **Enter** key to select it.
5. Either press the **Print** key to advance to the next option or press the **Tare** key to exit the menu and return to the weighing operation.

MESSAGE DISPLAY SHOWS

