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# **Jennings CD Series User Manual**

# **FORCE STYLUS SCALE MANUAL**

## **Precautions Before Using The Scale**

The scale should always be used in an environment that is free from excessive air currents, corrosives, vibration, and temperature or humidity extremes. These factors will affect accuracy and performance.

## **Scale Operation Notes**

- Do not Overload ( exceed the capacity ) of the scale including the weight of any trays or bowls combined with objects you may be weighing. Overload or Dropping/shocking the scale will damage the sensor and void your warranty.
- Allow sufficient warm up time. Turn the scale ON and wait several seconds to give the internal components a chance to stabilize before weighing.
- The cleaner the environment the better. Dust, dirt, moisture, vibration, air currents and proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale.
- Handle with care: Gently apply all items to be weighed onto the tray. Although this scale is designed to be quite durable, avoid rough treatment as this may permanently damage the internal sensor and void your warranty.
- Avoid lengthy exposure to extreme heat or cold, your scale works best when operated and stored at normal room temperature.
- Place the item to be weighed on the platform, after the stable weight is displayed remove the item immediately. This will prolong the longevity and accuracy of this weighing instrument.

## **Turn on The Scale**

Press **ON/OFF** to turn on the scale. The scale will go through a quick warm up procedure and self test, then it will be ready for use.

## Display Window

**PCS** : Scale is in counting mode.

 or "Lo" : Battery is at low voltage.

"OVER LOAD" : The weight is above the capacity.

## KEY PAD FUNCTIONS

### ◆ **MODE**

Press and release the key once to change the weight unit.

### ◆ **ON/OFF** : Power Switch

Press this key to turn the scale on. Once it is on, press and hold the same key to turn the scale off.

### ◆ **TARE** : Zero or tare

Press **TARE** to reset the scale to zero.

### ◆ **PCS** :

- 1) In normal weighing mode, press and hold **PCS** for 3 seconds to prepare to enter the parts counting mode, " pcs " will be displayed.
- 2) Press the **MODE** key to choose a fit number you wish to use for counting, the sample quantities are "20", "40", "60", "80" or "100" pieces. (for example, "20"=20 pieces of the item)
- 3) Place the number (above) of items on the tray.
- 4) Press **PCS** to confirm the above setting and begin counting, (If the display shows "SET", that means you didn't place the item on the tray, place the item on the tray and press **PCS** again to begin counting.) you can press **PCS** again to return to normal weighing mode.
- 5) Press **PCS** again; you can enter the counting mode again, and you can follow step1 to 4 to resample.

## Battery Operation:

- 1) Two CR2032 Lithium Cell battery (3V\*2) are required. Before replacing batteries, always remember to install the Scale's cover & be careful NOT

to push on the weighing platform (this can cause a fatal overload even if the power is off).

2) To install batteries:

a) Release the battery cover by sliding out-wards.

b) Place batteries into the battery compartment aligned correctly.

c) Replace battery cover.

3) The scale is now ready for battery operation.

### **(Advanced users only) CALIBRATION**

**IMPORTANT:** This scale was professionally factory calibrated before shipment. It usually does NOT need to be recalibrated before use. However advanced users may wish to calibrate the scale periodically to maintain perfect accuracy. Incorrect calibration can occur if you do not follow the steps exactly. You will need an accurate calibration weight to calibrate this scale (CD-100 uses a 100g weight, CD-500 uses a 500g weight). In emergency situations you can use coins or known-weight items as a temporary calibration weight (ie 20 US Nickels= 100g).

1) Place the scale on a FLAT, very stable surface and turn the scale on.

2) Press and hold **MODE** for 3 seconds, wait for the display to show "CAL" and then the required calibration weight will show on the LCD (ie 100.00).

3) Place the required calibration weight on the tray, wait 3 seconds, then press **ON/OFF**. Calibration is complete.

**NOTE:** If after calibration your scale does not read accurately, this indicates calibration error & the calibration process should be repeated more slowly.

**Please calibrate on a very stable flat surface!**

### **INACCURACY/ERROR**

The primary reasons for inaccuracy or malfunction are low batteries, incorrect calibration, overload or operating on an unstable surface. Please keep this in mind and maintain and operate your scale properly. The scale is a precise instrument and must be handled with the utmost care and caution.

## FEATURE

### ➤ Power Up Segment Test

When the scale is first powered on, all segments of the display and indicators will appear "-18888".

### ➤ Overload

When an applied load exceeds the maximum capacity of the scale. The display will show " O-Ld ", & " OVER LOAD ", Remove the excessive load immediately!

**Remember: You can permanently damage the scale by overloading it!**

### ➤ Negative Value

Any tared value or a value left in memory will be displayed as a negative number once all weight is removed from the tray. Press **TARE** to re-zero the unit.

**NOTE : All items should be placed on the center of the weighing tray.**

## TROUBLESHOOTING & OPERATION NOTES:

- 1) If the Display ever becomes to show "Out2", please recalibrate the scale as outlined in the manual
- 2) If the Display ever becomes to show "OVER", this indicates that the scale was shocked, dropped or otherwise damaged and the delicate weighing sensors have been damaged. You can try recalibrating the scale (If the sensor has not been hurt too badly it will work again after recalibration). Otherwise you will have to follow the warranty instructions that came with your scale.
- 3) If the display is faint or the scale won't power on, this often indicates low batteries. Thus, if new batteries do not fix this error the scale will have to be sent to us for replacement under our warranty program.