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# Jennings JS50X User Manual

# JSCALE JS-50X MANUAL

## PLEASE READ COMPLETE INSTRUCTIONS BEFORE USE

Thank you for purchasing The Jennings JS-50X. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully. You can contact us at [www.Jscale.com](http://www.Jscale.com)

### KEEP THE FOLLOWING POINTS IN MIND:

- \* If the scale performs inaccurate please read this manual for troubleshooting.
- \* Avoid lengthy exposure to extreme heat or cold, your scale works best when operated at normal room temperature. **When possible allow the scale to acclimate to a normal room temperature for at least one hour before use.**
- \* 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 tray top. Although this scale is designed to be quite durable, try to avoid rough treatment as this may permanently damage the internal sensor and void your warranty.
- \* Avoid shaking, dropping or otherwise shocking the scale. This is a precision instrument and **MUST BE HANDLED WITH EXTREME CARE.**

**\*IMPORTANT ADVICE: 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.**

.\*\* These electronic scale are precision instruments. Do not operate near an in-use cell phone, cordless phone, radio, computer or other electronic device. These devices emit RF and can cause unstable scale readings. If your scale ever performs poorly, try moving the scale to a different room or location.

This is a very precise scale - the display may seem to wander or jump when weighing. This is due to air currents or vibrations. Stable weighing is achieved when the display remains fixed for 3 seconds.

## OPERATION

### Battery Operation:

- 1) Three "AAA" size ALKALINE batteries are required.
- 2) To install batteries:
  - a) Release the battery cover by sliding out-wards.
  - b) Place batteries into battery compartment aligned correctly.
  - c) Replace battery cover.

### DO NOT USE EXCESSIVE FORCE & DO NOT PRESS ON THE TRAY!!!

- 3) The scale is now ready for battery operation.

## (Advanced users only) CALIBRATION

IMPORTANT: This scale was professionally factory calibrated before shipment and does NOT need to be recalibrated by the end user. However, if you wish to recalibrate your scale we provide these instructions for calibration: Repeat calibration if the scale ever shows Out2. Incorrect calibration can occur if you do not follow the steps exactly. If your scale does not perform accurately, please try replacing your batteries before you calibrate. You will need a 50gram weight or set of weights to calibrate this scale.

*NOTE: if you do not have access to a 50g weight you can purchase one at your local store or in emergency situations you can use coins or weights (ie 10 US Nickels = 50g) as a 50g weight..*

- 1) Turn the scale OFF and Place the it on a Flat, very stable surface  
(**Be certain the scale is OFF**)
- 2) Press and hold the "ZERO" key first, then press the ON key (while keeping the ZERO key depressed) a random number will appear on the display - release both keys. This is the AD value (a series of random fluctuating numbers)
- 3) Press and release the UNIT key, the display will show 00SAVE then it will show 50.00.
- 4) Gently place a 50 gram weight on the scale and wait 3 seconds
- 5) Press and release the UNIT key. The display will show PASS or 00SAVE (depending on model). Calibration is complete. Remove the weight and turn the scale Off.

**NOTE:** if after calibration your scale does not read accurately, this indicates calibration error: Repeat the calibration process 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 upmost care and caution.

## FEATURE

\* **Power Up Segment Test:** When first turning the unit on, all segments of the display will appear as shown below. This display will remain for approximately 2 seconds and then reset to 0. **1:8:8:8:8**

\* **Overload:** When an applied load exceeds the capacity. "EEEE" will appear on the display. Remove the excessive load immediately!

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

## TROUBLESHOOTING & OPERATION NOTES:

1) If the scale will not perform accurately, please recalibrate the scale as outlined in the manual

2) If the Display ever becomes locked on 00000, or EEEEE, 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 will not power on and show 0.0, this often indicates low batteries. However sometimes it also may indicate a serious zero mark error. This means when you turn the scale on, it can't determine what zero is (a slight zero mark error will cause situation #2 above) Thus, if new batteries do not fix this error the scale will have to be sent to us for replacement under our warranty program.

4) If the display shows UNST, this means the scale is not stable. Please try operating the scale on a more stable surface and be sure nothing is on the tray or stuck under the tray when you turn it on. If this situation persists, it may be an indication of fatal load cell damage. Try calibrating the scale - if this does not work please follow the warranty instructions.

Although the JS is designed to be extremely durable, it's important that you never overload or drop/shock the scale. Scales are delicate instruments and unlike Cellular phones, scales have delicate sensors that determine how much an item weighs. If you drop or shock your scale, these sensors "feel" the shock and are sometimes destroyed. This happens with all digital scales. We design our scales to be as resistant to shock or drops as possible, however there is no way for us to protect 100% against load cell or sensor damage. A well-treated scale will provide years of reliable and accurate weighing. However an abused scale will only work until it's sensors are damaged.

## KEY PAD FUNCTIONS

### \* UNIT

Unit (mode) selection: Press and release the key once to change weight unit You can select g (grams), ct (carats), gn (grains) or pcs (parts counting).

### \* ON/OFF

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

### \* PCS (Count) Sample sizes can be 10, 20, 50 or 100

The following steps outline the procedure for cumulative weighing of samples:

Switch the scale on Use the UNIT key to put the scale into PCS mode. Now press the PCS key once\*. The display will show "S=10". Put 10 pcs of samples on the platform. Press the UNIT key (to lock in the weight). The display will show "PASS", then "10" and the scale is ready for counting. \*NOTE: You can choose the quantity of samples as 20pcs, 50pcs or 100pcs by pressing the PCS key multiple times (instead of once). For 20 pc counting, the display will show "S=20". Put 20pcs samples on the platform, then press the UNIT key. The display will show "20" and the scale is ready for counting. The same instructions can be applied to 50pcs counting and 100pcs counting. Remember: Do not exceed the 50g combined total capacity of the scale.

### \* ZERO (TARE)

Press Zero to reset the scale to zero. This can be used for eliminating from a sample (or a Tray/Container) the weight value of a container weight is permanently removed for the remainder of the procedure. Just turn the scale ON, place the tray or container on weighing platform, and press the ZERO key. The scale will show 0.0 (or 0.00) on the display and you can add items to the container/tray. NOTE: When all weight are removed from the weighing tray, the tared value of a container will be displayed as a **negative number**. Cycle the power on the scale to reset the scale to zero.

\*\* These electronic scale are precision instruments. Avoid disturbing environmental conditions such as currents, vibrations, strong electrical and magnetic fields as well as a rapid change of the ambient temperature.

### \* Auto off

An auto shut off feature is provided to conserve battery power. The unit will automatically turn off after approximately 2 minutes of inactivity.