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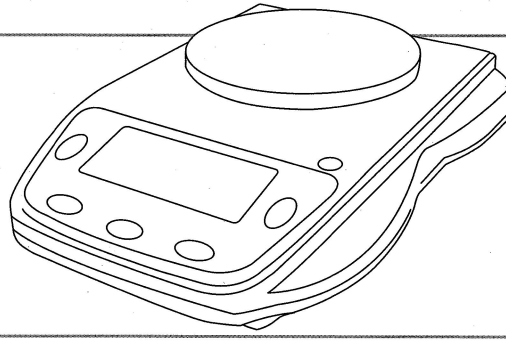
TB500®

SCALE



Capacity
500g x 0.01g

ENGLISH

Thank you for purchasing the J-Scale® TB500® digital scale. Please read all operating instructions carefully before use. This electronic scale is a precision instrument. With normal care and proper treatment, it will provide years of reliable service. For further information or troubleshooting, please visit our website at **www.jenningsscale.com**

Never load the scale with more than the maximum capacity. Although the J-Scale® TB500® is designed to be extremely durable with extra overload protection built into the case, overloading will permanently damage it! Avoid any exposure to extreme heat or cold, your scale works better when operated at normal room temperature. Keep your scale in a clean environment. Dust, dirt, moisture, vibration, air currents and/or a close 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. Avoid shaking, dropping or otherwise shocking 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. Failure to follow these instructions will void your warranty.

Always allow the scale to acclimate to normal room temperature for at least one hour before use. Give your scale sufficient warm up time. Usually 30-60 seconds before calibration to give the internal components a chance to stabilize.

PRECAUTIONS BEFORE USING THE BALANCE

1. Matter charged with static electricity can affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.
2. The balance must be in an exactly horizontal position in order to achieve accurate measurement results. In order to bring the balance into a horizontal position, the adjustable feet are turned either clockwise or counter-clockwise until the air bubble on the front panel is in the center of the marked circle.
3. When using the adapter please use an independent power outlet to avoid interference from other electrical appliances.
4. Don't put any object on the platform before powering on.
5. When possible please allow the scale to warm up for several minutes before operation.
6. Items should always be placed on the center of the platform when being weighed.
7. For optimum accuracy, recalibrate before each use.

POWER SUPPLY

AC Adapter

The scale can be powered by an AC adapter. Please only use the correct AC adapter for this scale – an incorrect AC adapter can cause damage to the scale and possible fire or injury. Use of an incorrect AC adapter will also void your warranty.

BATTERIES

Low Batteries & bad battery connections are the #1 cause of scale malfunction and inaccuracy! We test all of our scale returns from consumers and 60% of them are battery related problems. This sounds silly but it's true! A scale will perform poorly when it has low batteries. Use good quality batteries & replace them often (Remove the batteries if you plan to store the scale for longer then 14 days). We include good quality batteries with all of our scales but they can run low in storage. If your scale simply won't turn on while on battery power, it is often caused by loose battery connections. Battery prongs (terminals) are made of metal and they have to be in contact with the batteries. Some poorly designed batteries have recessed or partially obstructed battery terminals. This may cause your prongs to touch the plastic housing of the battery instead of the metal of the battery terminal.

Battery installation

a) Press and lift open the battery cover located at the bottom of the unit.
b) Insert the batteries and make sure the polarity is correct (+) and (-).
c) Close the battery cover until it clicks shut.

OPERATION INSTRUCTIONS

Weighing Procedures

1.Press **[ON/OFF]** to turn on the scale.
When the power is turned on, the scale will countdown for a few seconds and "0.00" will appear on the display.

2.Press **[MODE]** to select a weighing unit g, ct, ozt, dwt, oz or gn.
Once the unit has been selected, the selected unit will be displayed next to the weight value.

3.Start weighing
Verify the reading is "0". Place objects on the weighing platform to weigh. When the reading becomes stable, the stable indicator is displayed.

TARE

Tare can be used for eliminating the weight value of an empty container. Place an empty container on the scale and press **[TARE]**. Then place the items to be weighed in the container. NOTE: When all weight is removed from the weighing tray, the tared value of a container will be displayed as a negative number. Press **[TARE]** again to return the scale to zero.

CALIBRATION

How to calibrate **you must have an accurate 500g weight or combination of weights in order to calibrate**
Calibration may be required when the scale is first set up for use, or if the scale is moved to a different altitude or new location. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.

1. Turn on the scale and wait for the display to show "0.00"
2. Press **[CAL]** and the display wil show "CAL".
3. Press **[CAL]** again and wait for the display to show the correct calibration weight "500.00"
4. Gently place the required calibration weight on the platform. The display will show "PASS" and then return to normal weighing mode. Calibration is complete.

SCALE FEATURES

Counting Mode

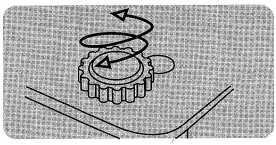
1. Turn on the scale and wait for the display to show "0.00".
2. Place a sample amount (25pcs,50pcs, 75pcs or 100pcs) on the platform.
3. Press and hold **[PCS]** until the display shows "25, 50, 75 or 100"
4. Press **[MODE]** to toggle 25, 50, 75 or 100 so that it corresponds with the sample size on the platform. Press **[PCS]** to confirm the selection.
5. You can now place the items that you want counted onto the tray and the total number of items will show on the display.
6. Press the **[MODE]** key to exit the counting mode and return to normal weighing. You can return to counting mode by pressing **[PCS]** in which the scale will remember the previous setting.

Auto off

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

Adjustable Feet

on bottom of each corner of the scale



SPECIFICATIONS			
Capacity	500g x 0.01g	**Units**	g, ct, ozt, dwt, oz, gn
Auto-OFF	2 min.		
Scale dimension	210mm x 155mm x 50mm		
Tray dimension	105mm (diameter)		
Operating temperature	Optimum 10-40°C (50-104°f)		
Power Source	4 x AA batteries or AC power adapter		
Tare range	Up to scale's maximum capacity		
Zero range	± 5% of max. capacity		