

# AXE Owner's Manual & Troubleshooting

**Low Batteries & bad battery connections are the #1 cause of scale malfunction and inaccuracy!** We test all of our scale returns from consumers. Fully 60% of consumer returns are battery related problems. This sounds silly but it's true! A scale will perform slowly, or read inaccurately when it has low batteries. Please replace the batteries often (and only use good quality batteries). We include good quality batteries with all of our scales but batteries can run low in storage. If your scale simply won't turn on while on Battery power, this is often caused by loose battery connections. Battery prongs (terminals) are made of metal. They must be making good contact with your batteries in order for the scale to power on. You can use a paperclip to slightly bend the battery prongs to make them have a better connection. Also some poorly designed batteries have recessed or partially obstructed battery terminals. This may cause your prongs to be touching the plastic housing of the battery instead of the metal battery terminal.

## **TROUBLESHOOTING NOTES:**

- 1) If the Display ever becomes locked showing "Out2", please recalibrate the scale as outlined below
- 2) If the Display ever becomes locked on LLLL or EEEE, 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.

Although the AXE is designed to be the most durable pocket scale in the market, It's important that you never overload or drop/shock the scale. This scale is still a delicate instrument and must be treated with care and caution. 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 is damaged.

## PLEASE READ COMPLETE INSTRUCTIONS BEFORE USE

Thank you for purchasing The AXE. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully.

### .KEEP THE FOLLOWING POINTS IN MIND:

- \* If the display becomes locked on Out2 please recalibrate the scale.
- \* Avoid lengthy exposure to extreme heat or cold, your scale works best when operated at normal room temperature. Always allow the unit 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.**

\* Only operate the scale on a stable, vibration free surface. **IMPORTANT:** Do not operate near cell phones, radios, computers, or any other electronic device.

.\*\* 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.

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## OPERATION\_\_\_\_\_

### Battery Replacement:

- 1) Three #357 button 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 100gram weight to calibrate this scale.  
*NOTE: if you do not have access to a 100g weight you can purchase one at your local store or in emergency situations you can use 100g of coins or weights (ie 20 US Nickels = 100g) as a 100g 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  key for 10 seconds until a random large number appears on the display - then release the key.

3) Press the  key again, the display will show 2Ero and then 100.0

4) Gently place a 100 gram weight on the scale and wait 3 seconds.

5) Press the  key. The display will show CAL and then PASS,

calibration is complete. Remove the weight, then Press and hold the  key for 5 seconds to turn the scale off.

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

Please calibrate on a very stable flat surface

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### **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 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!*

\* Negative Value

Any tarred value or a value left in memory will be displayed as a negative number once all weight is removed from the unit. Press tare to re-Zero the unit.

\* Auto off

An auto shut off feature is provided to conserve battery power. The unit will automatically turn off after approximately 3 minutes of inactivity.

\*Stable Indicator

There is a stable indicator that appears on the left side of the LCD whenever the scale is stable and at Zero

KEY PAD FUNCTIONS

\* UNIT (the left key)

Unit (mode) selection: Press and hold the left key to change weight unit You can select g (grams), oz (ounces), dwt (pennyweight) or ct (carats).

\* ON/OFF 

Press this key to turn unit on. Once the unit is on, press and hold the same key for 5 seconds to turn the scale off

\* Tray Operation:



The spinning locking mechanism of the AXE is designed to protect the scale from accidental overload when it is closed.

Simply spin the cover counter clockwise so that the LCD and buttons will be hidden from view. The scale is now ready for storage

To operate the sale simply spin the cover clockwise until it is fully open (you'll feel it lock into place). Now the scale is ready for use.

NOTE: Always close the cover when storing the scale. Please be sure the cover is fully open before operation.

\* ZERO (TARE)

After the scale is ON, you can press  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  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