

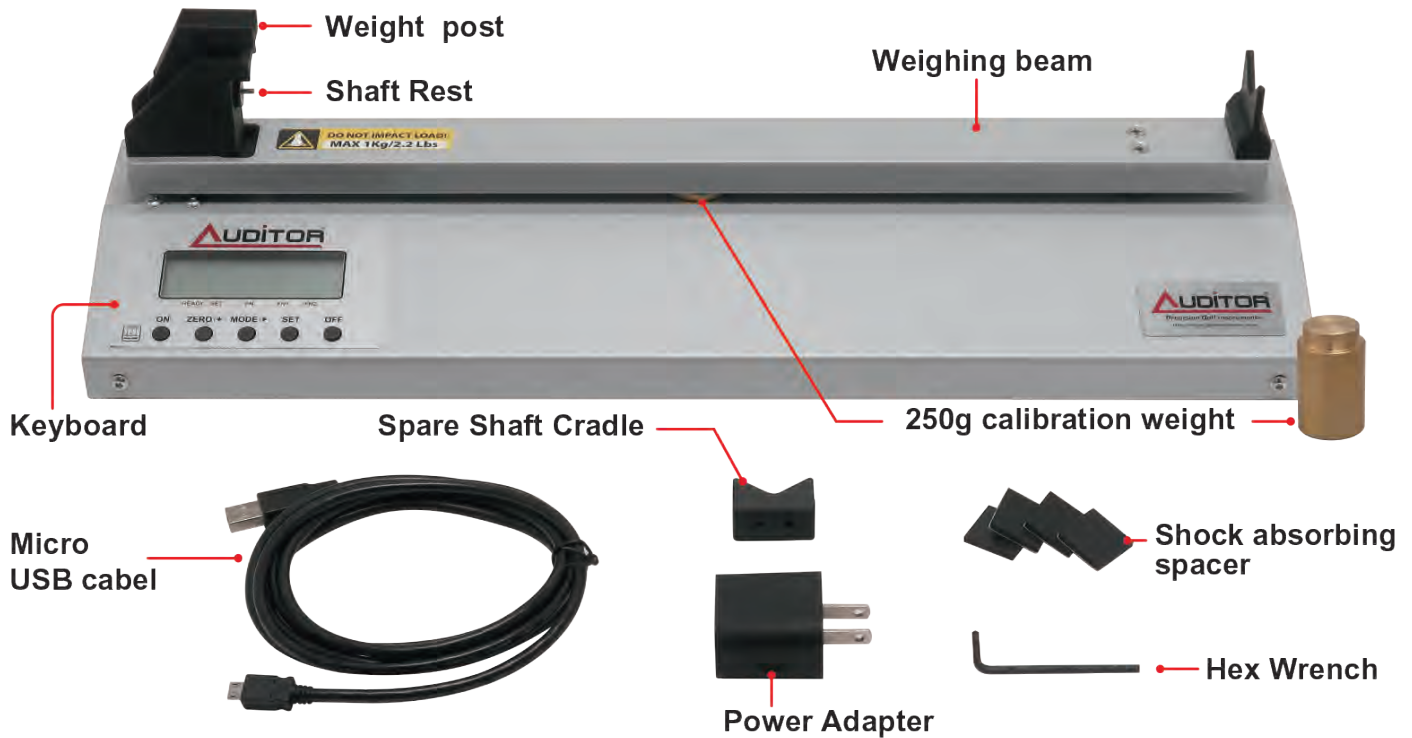
THE
GOLFWORKS®

Instructions For:
**Compact Digital
Swingweight Scale**
Code: **GM1114**



Digital swing weight scale





Introduction

A digital swing weight for the hobbyist and the occasional club maker that demands both speed and accuracy with the upmost reliability in a compact, portable and affordable package. Built around our original design using quality components and precision electronic, this scale produces fast and stable readings for both swing weight and total weight to within 0.1 gram and 0.1 SW and can manage both gripped, un-gripped clubs as well golf club components and the smaller parts commonly used for swing weighing golf clubs.

General guide lines & instructions

Unpack the Digital Swing-Weight Scale and check that there are no parts missing or damaged. If parts are missing contact sales@golfmechanix.com for assistance. The following parts are included:

- Basic unit with control panel and display
- Micro USB cable and power adapter
- 250-gram Calibration weight
- Hex Wrench
- Rubber shock absorption pads
- Spare shaft cradle

Installation check List

- Familiarize yourself with the scale parts prior to assembly and how the parts should be put together
- Read and understand the manual carefully
- Familiarize yourself with the calibration procedure.
- Familiarize yourself with the modes of operation, weighing and swing-weighting procedures.

Do not tamper with the scale, or take it apart. This will void the warranty. The scale has very specific setting and unless these procedures are followed the scale will not function properly.

Swing Weight Scale Do's and Don'ts

1. Do not initiate the calibration procedure or alter the factory default settings unless you understand the instructions clearly.
2. The swing weight scale is factory set at 0.2 grams precision. If the displayed value is unstable, the most probable cause is wind draft, golf club wobble or temperature variations in the workshop.
3. Do not overload the weighing beam. When "ERROR" is shown on the display, immediately remove any heavy objects from the beam.
4. When the swing weight of a club is out of range, the scale will revert to a moment reading.
5. Do not leave clubs or any other items on the scale when not in use. This may damage the load cell and lead to incorrect readings.

WARNING! DO NOT OVERLOAD THE WEIGHING PAN OR APPLY EXCESSIVE PRESSURE ON IT!

Applying Shock Absorbing Pads

To ensure the scale stays stable and flat during operation, shock absorbing pads are provided and should be attached to your unit before use. Begin by cleaning the surface with isopropyl alcohol to ensure proper adhesion. Then, remove the backing film of the pads and stick them to the bottom of the scale as shown.



Plugging in Power Adapter

Prepare the power adapter by plugging in the USB cable and plug the power adapter into a wall outlet. Then plug the micro-USB side of the cable to your unit as shown.



Measuring A Golf Club

1. Clear the weighing beam and weight post of foreign objects then press the “ON” button. The unit’s screen should display the booting sequence: a series of zeros that fill the screen.



2. When the booting sequence is complete, the screen should display the measured load on the weight post, which should be close to “0.0”. If the measured load is noisy, make sure the scale is seated properly and that there is no wind draft in the immediate vicinity.



3. Pressing the “Zero” button will tare the scale and reset the weight displayed to “0.0”. This should be done when the display is still displaying a load when nothing is placed on the beam and weight post.



4. Before mounting a gripped club onto the scale, push the shaft rest in-wards so that the surface is flush as shown. Only the pin of the shaft rest should be sticking out.



5. Mount the club onto the beam so that the shaft rests on the cradle. The pin of the shaft rest should insert into the vent of the grip. Press the club into the shaft rest so the grip is flush.



6. Wait for the reading on the display to settle. If the club is oscillating on the scale, use your hands to stabilize the club. The swing weight will be shown on the screen.



Measuring Un-gripped clubs

For the purpose of swing weight matching, clubs may need to be weighed to gauge their swing weight before a grip is applied.

1. Push out the shaft rest by about 1/4". Do not push out the shaft rest too far as it will fall out from the weight post.



2. Mount the un-shafted club onto the beam. The shaft rest should insert into the shaft keeping it in place. Press the shaft against the shaft rest until it sits flush.



6. Wait for the reading on the display to settle. If the club is oscillating on the scale, use your hands to stabilize the club. The swing weight will be shown on the screen.

Measuring Components

The swing weight scale can double as a regular scale to measure the mass of components such as clubheads, shafts, grips and even fully assembled clubs.

To do so, balance the component on the weight post. Shafts, grips and assembled clubs can be placed in the slot of the weight post to prevent them from sliding off when weighing.



Clubheads can be balanced on the weight post by placing them face side down as shown. Make sure the hosel is not touching any other parts of the scale as this can throw off the measurement.



The measured weight of the component is shown on the screen in grams.



Removing the Weighing beam and retrieving the calibration weight

The weighing beam of the scale can be removed. This is usually done during the calibration process to isolate the loadcell from the beam. The space under the weighing beam is used to store the 250g calibration weight used for calibration.

1. Begin by pushing the shaft rest all the way out from the weight post. The shaft rest should be completely detached from the weight post.



2. Once the compensator has been removed, the weight post should be loosened. Remove the weight post by pulling it upwards.



3. With the weight post removed, look inside the resulting cavity: there is a socket that allows for easy installation, as shown in the diagram



4. The weighing beam is now free to be removed. Do so by lifting up the right side of the beam until the bottom of the beam is clear of the 2 posts below. Slide the weighing beam to the right until the beam is completely free from the rest of the unit.



5. Place the beam and all removed components to the side. Make sure not to drop the beam as it may deform its structure or damage parts attached to the beam.

6. The calibration weight can be found in it's compartment after the beam has been lifted. It is recommended that the calibration weight be returned to its compartment after it is no longer being used.

To replace the beam, follow steps 1 - 5 in reverse

Scale Calibration

The digital swing weight scale ships from the factory already calibrated, but circumstances may arise where the load cells must be calibrated again. To do so, first follow the instructions in the previous section to remove the weighing beam and retrieve the 250g calibration weight. Calibration should be done with the beam removed.



1. Begin with the unit turned off. Hold the “Zero”, “Mode” and “Set” button simultaneously then press the “On” button. Do not release the 3 buttons until the screen fully boots up.



2. After the unit completes the boot up sequence, the screen should display “00000”. Press the “Zero” button. This will increase the value displayed on the screen to “10000”. Press the “Set” button to proceed to the next step.



3. The unit should now be showing a sequence of 5 numbers and letters. Make sure there are not any foreign objects on the scale then press the “Set” key to proceed.



4. The display should now be showing “250”. Place the calibration weight on the load cell as shown and make sure the weight is sitting still. Wait for 2 seconds then press the “Set” Key. In a few moments, the screen will blink.



5. Once the screen has blinked, remove the calibration weight from the load cell. The reading on the display should go down to “0”. Press the “Set” key. The unit will proceed to reboot.



6. When the unit is booting up, remove the calibration weight from the load cell. If the calibration weight could not be removed before the unit boots, remove the calibration weight then press the “Zero” button. The unit should now function as normal.

7. Shut down the unit by pressing the “Off” button. Replace the calibration weight in its compartment and follow the steps to replace the weighing beam.