

Operating Instructions

SwingW.com - Electronic Swingweight System



Patent Pending
SwingW,LLC
Andover, KS

Version 1.1

Introduction:

The Electronic Swingweight system is fully electronic and has no moving parts to create mechanical errors. Because it is fully electronic and calibrated, it should be treated a bit more like a precision instrument. Keep and use the unit in a conditioned space. All electronics are susceptible to harsh environments and this product is no different.

Our approach to measuring swing weight of a golf club is unique and part of our pending patent. Accurately measuring the weight of the club at 2 predefined points allows us to calculate total weight, balance point, inch/grams of torque and ultimately the club swingweight. This method is more accurate and repeatable than any other swingweight measurement system.

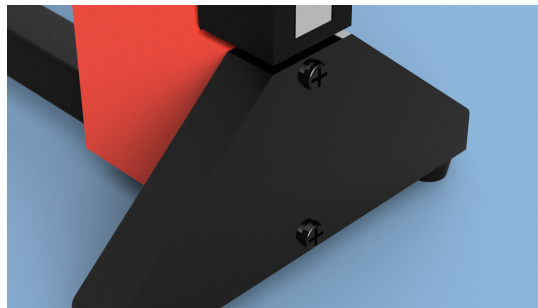
Contents:

Each unit comes with:

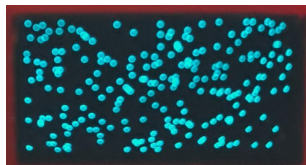
1. One main scale unit
2. One MicroUSB power supply
3. One weight holder for checking the scale ends.

How to use:

1. Remove the shipping foam and brackets from the support legs. Reinstall the provided screws.



2. Set the scale on a level surface such as a countertop or workbench. The scale does not need to be leveled if the surface it is setting on is reasonably level.
3. Plug the power supply into a 120v receptacle.
4. Remove any weight from the scale ends.
5. Plug the microUSB cord from the power supply into the USB receptacle on the right side of the scale control box.
6. When you plug in the power, you may see random pixels on the screen for a few seconds. That is normal.



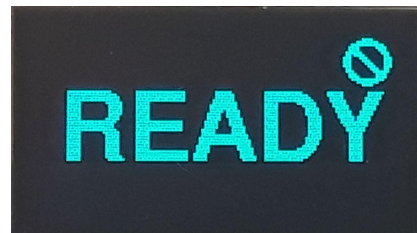
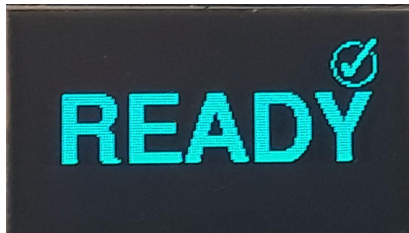
7. After a brief startup and calibration mode, the unit will display “READY”. READY mode is the default club measurement mode.

Using the button:

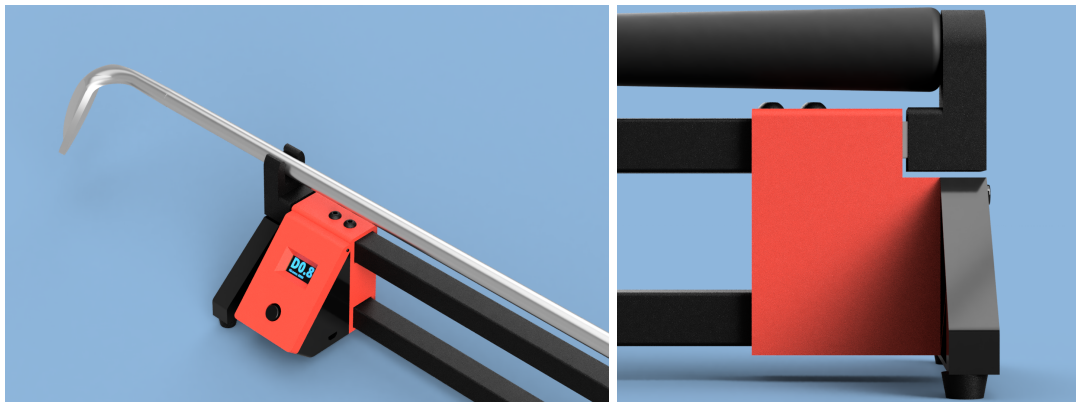
The button works a bit backwards. Instead of pressing the button to make a selection, you instead hold the button down and allow the menu items to scroll past on the display. When the mode you are looking for shows up on the display, release the button. The menu mode you have selected will start up automatically.

READY Mode:

1. When you see READY with a check-mark, the scale is ready to take club measurements and the combined accuracy of the two scales are within 1 gram from zero.
2. When you see READY with the “NO” sign, the load cells have drifted more than 1 gram from zero. If left alone, the unit will automatically go into “TARE” mode to reset both load cells back to zero. NOTE: As you are taking club measurements, you will see the check-mark disappear as you are loading the club. This is normal.

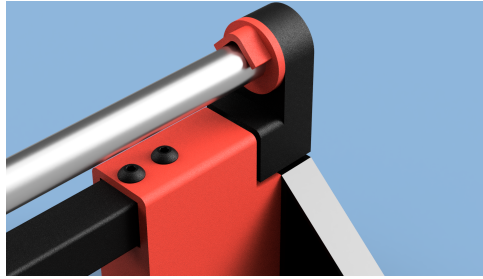


3. Insert the club in the fixture. The pin on the right (grip end) support is meant to fit in the hole of the end of the grip. The grip must be all the way up against the support vertical face. The shaft sets in the shaft support on the left side of the scale.

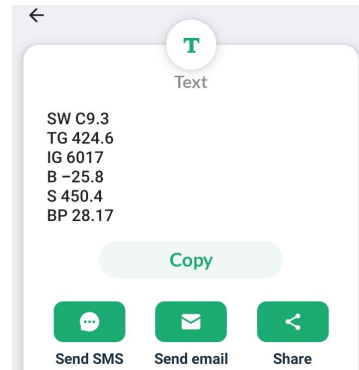


4. The scale will automatically take the weight readings and calculate the swingweight, total grams, inch/grams, and balance point. Those four readings will display automatically. It is normal to see the weights bounce around a few grams. We are measuring down to the 1/10 of a swingweight and to .1 gram of total weight.

5. Use the shaft adapter when you want to weigh a club or shaft without a grip. It allows the shaft to remain centered and fits over the pin on the grip end support. It is 1/8" thick to simulate the thickness of the grip cap. You can temporarily tape a grip to the top of the shaft to approximate the total club weight. **SWINGWEIGHT WILL NOT BE ACCURATE WITHOUT THE GRIP IN PLACE.**



6. While the club is being measured, if you press the button for about 1/2 second, a QR code will be generated and displayed on the screen. You can use your smartphone's QR scanner app or any other scanner to save / share the current club measurements. SW = Swingweight, TG = Total Grams, IG = Inch Grams, B = Butt Grams, S = Shaft Grams, BP = Balance Point. Press the button to return to the measurement screen.



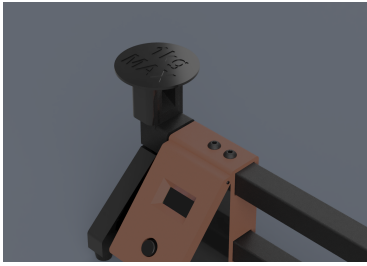
Note: the longer you leave the club in the scale, you may experience a few grams of drift on the readings. That is normal with all load cells. If in doubt, remove the club, TARE the scale and take a new reading.

TARE Mode:

Entering the TARE mode will cause both load cells to “zero” out. Before entering the tare mode, remove any weight from the scale. Once the TARE is completed, the scale will automatically return to READY mode for club measurement.

CHECK Mode:

Entering the CHECK mode will allow you to see the readings of each load cell in real time. We provide a weight support platform which fits on the scale end so you can put a “known” weight on either scale end to check for accuracy.



```
Butt: 0.1  
Shaft: 0.0  
Spacing: 22.68"
```

If you don't have a known weight (calibration weight), use any object that weighs around 500 grams. Weigh the object on both scale ends using the weight platform and zero in between readings. Any object should weigh the same (within 1 gram) on both scale ends.

You can also use the CHECK mode to weigh individual club components just like you would on a normal digital scale.

Prior to entering this mode, position the weight holder on the scale end you want to check. When you release the button to enter check mode, both load cells will TARE to zero. You can add a known weight to the weight holder to CHECK the load cell. **DO NOT EXCEED 1000 GRAMS (2.2 LBS)**. The "Spacing" reading is the factory programmed distance between measurement points on the scale. We show it for reference only.

smALL Mode:

Entering the "smALL" mode works the same as the READY mode. We call it "smALL" because you get to see ALL of the scale readings on one screen, but the text is very small. A QR code *CANNOT* be generated from this mode.

```
SwingW = C  
Butt: -100.9.3  
Shaft: 587.6  
Total: 424.44  
Balance: 28.16"  
Inch/Grams: 6014
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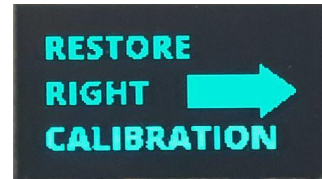
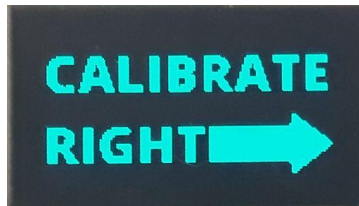
SLEEP Mode:

Entering the SLEEP mode shuts off most of the scale's functions. The scale is not truly "off", but all components go into standby mode. When you are not going to use the scale for the rest of the day, it is always best to unplug the micro USB cord. The scale will automatically go into sleep mode if it senses it is not in use for about 10 minutes. To return from SLEEP, press the button. The scale will automatically TARE and then enter the READY mode.

CALIBRATION Mode:

The scale does not require any sort of regular calibration. However, we didn't want to release the scale without the ability for the user to calibrate should they feel the need in the future. To enter the CALIBRATION modes (including restoring factory defaults) hold the button down for at least 3 menu cycles. On the 3rd cycle, CALIBRATION menus will

start to appear after SLEEP mode. You MUST use a 500 gram calibration weight to perform this calibration.



1. Release the button to enter the calibration mode you want. Here we are going to calibrate the right side scale.
2. The display will tell you to install the weight holder on the scale end and then press the button.
3. The scale will TARE automatically.
4. Next the display will ask you to add the 500 gram weight to the holder.
5. After a brief WAIT, the display will ask you to press the button.
6. Next the display will ask you to remove the 500 gram weight from the holder.
7. After a brief WAIT, the display will ask you to press the button to record the new calibration OR unplug the scale to return back to factory calibration.
8. After you press the button this final time, the scale will store this new calibration factor and send you into the CHECK mode to verify your new calibration. Until you cancel this custom calibration, the scale will ignore factory calibration and use your custom calibration. When the scale powers up, you'll see a message that you are using custom calibration settings.
9. To restore factory calibration, enter mode "RESTORE RIGHT (OR LEFT) CALIBRATION".

Conclusion:

We hope you enjoy the use of your new Electronic Swingweight System. We spent a considerable amount of time developing it.

The components are assembled in a way that they can be disabled, but we caution you against it. The spacing between the 2 measurement points is critical. All swingweight calculations revolve around that spacing being as it was when it left our shop. We test and calibrate each unit and check both load cells to make sure they read as linearly as possible. It's best to keep it that way.

Thanks again for your purchase. Hit'em straight!!