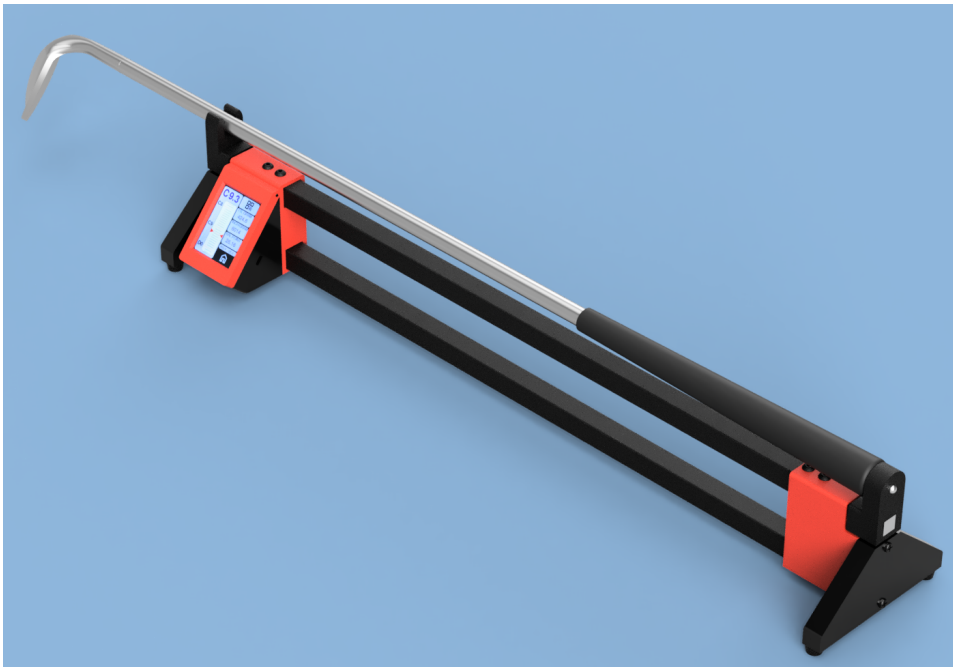
Operating Instructions

SwingW.com

Pro-Touch Electronic Swingweight System



Patent Pending
SwingW,LLC
Andover, KS

Version 1

Introduction:

The Pro-Touch 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.

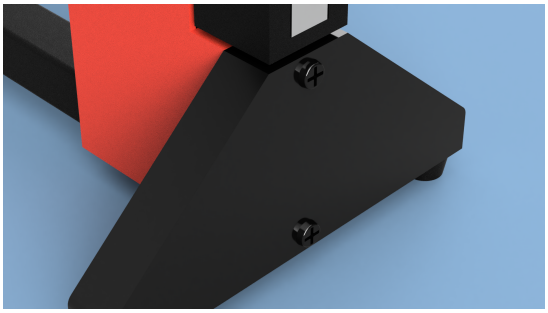
Our approach to measuring swing weight of a golf club is unique and part of our pending patent. Accurately measuring the weight of the club at 2 predefined points allows us to calculate total weight, balance point, inch/grams of torque and ultimately the club swingweight. This method is more accurate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

Contents:

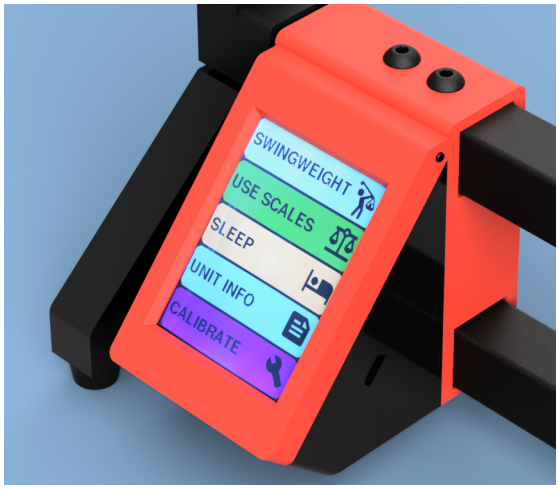
Each unit comes with:

1. **One main scale unit**
2. **One MicroUSB power supply**
3. **Two weight holders for checking the scale ends.**
4. **One gripless shaft adapter.**

How to use:

1. **Remove the shipping foam and brackets from the support legs. Reinstall the provided screws.**
   a. 
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. **Plug the microUSB cord from the power supply into the USB receptacle on the right side of the scale control box.**
5. **After a brief startup and calibration mode, the unit will display the “HOMESCREEN”. From there, you can navigate to the desired mode.**

6. **When touching the screen, it takes slightly more pressure than a typical smartphone. It can also be touched with a stylus or pencil eraser. That is handy if you have large fingers or you have gloves on.**



SWINGWEIGHT Mode:

1. **When you start the swingweight mode YOU SHOULD NOT HAVE THE CLUB ON THE SCALE. You will see one of the following symbols in the upper right on the screen.**

2. **A GREEN check means the combined reading of the two load cells are within 1 gram from zero and you are ready to measure the club swingweight.**

3. **A YELLOW check means the combined reading of the two load cells are between 1 and 2 grams from zero. You should tare the scale for a more accurate reading.**

4. **A RED check means the combined reading of the two load cells are above 2 grams from zero. You should tare the scale for a more accurate reading. If left in the RED check state, the scale will automatically enter a TARE cycle.**

5. **A RED scale icon means the scale is in TARE mode. You should not move or touch the scale ends while this is in process.**

6. **If you press the upper right corner while any CHECK (GREEN, YELLOW OR RED) is being displayed, the scale will enter TARE mode.**

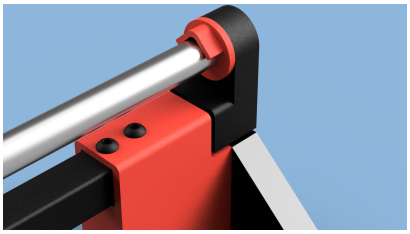
7. **It is normal to see the GREEN check turn to RED while you are loading the club for measurement.**

8. **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.**

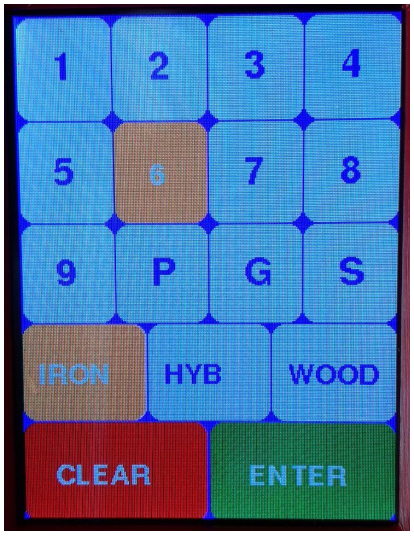
9. **Once you load the club, the swingweight and other club data will be displayed. The left column shows the swingweight reading at the top. The dial has a pair of arrows and will float to show a simulated analog swingweight reading. This will help fine tune to a desired swingweight.**

10. **The column on the right has the QR Icon at the top. Below that, you'll get the club's total weight, inch/grams, balance point as measured from the grip end, and the small box shows the real time readings of the left and right load cells. The HOME icon will return you to the homescreen. 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.**

11. **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 ⅛" 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.**



12. **While the club is being measured, if you press the QR icon in the upper right corner, a CLUB KEYPAD screen will appear. This screen will allow you to designate the club number and type (i.e. 1 WOOD or 5 HYBRID). “P”, “G” and “S” stand for pitching, gap and sand wedge. If you choose not to enter the club type, simple press enter and the QR screen will display without the club type information.**

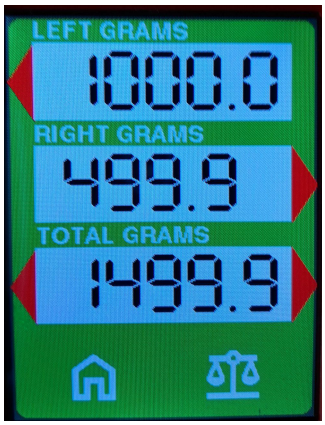


13. **You can use your smartphone’s QR scanner app or any other scanner to save / share the current club measurements. The information will be saved exactly as shown below the QR code. From your QR app, you can save, email, text and otherwise share the club’s measurement data. Touch anywhere on the screen 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.

USE SCALES Mode:

1. **Entering the USE SCALE mode will allow you to see the readings of each load cell in real time. We provide two weight support platforms which fit on the scale ends so you can put a “known” weight on either scale end to check for accuracy.**



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

3. **Prior to entering this mode, position the weight holder on the scale end you want to check. You can add a known weight to the weight holder to CHECK the load cell. At any time, if you press the SCALE icon in the lower right corner, both load cells will enter a TARE cycle.**

4. **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 and TARE in between readings. Any object should weigh the same (within 1 gram) on both scale ends.**

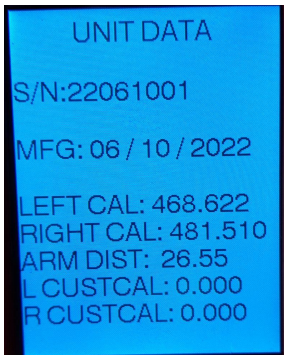
5. **DO NOT EXCEED 1000 GRAMS (2.2 LBS) on either load cell. The "Total Grams" reading is the combined weight (or negative weight) of both load cells.**

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, touch the screen anywhere. The scale will automatically return to the homescreen.

UNIT INFO Mode:

Entering the UNIT INFO mode will display information about the manufacturing date and calibration factors. It will also show any custom calibration factors that the user may have implemented. The ARM distance is the factory programmed distance between the left and right club support points. This is non adjustable in the program and any repair of the scale MUST always return this measurement to what is programmed into the scale.



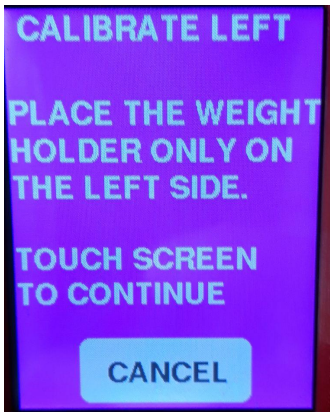
CALIBRATION Mode:

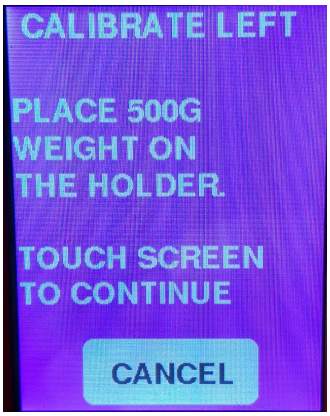
The scale does not require any sort of regular calibration. However, we didn't want to release the scale without the ability for the user to calibrate should they feel the need in the future. Once you enter the CALIBRATION mode, you'll see the following screen. You MUST use a 500 gram calibration weight to perform this calibration.

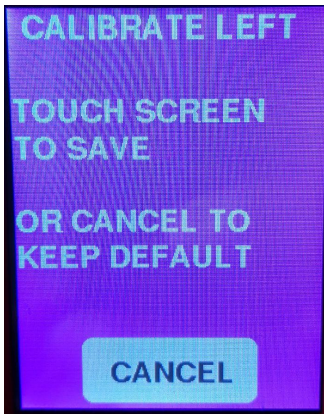
1. **Choose CALIBRATE LEFT (OR RIGHT). The display will tell you to install the weight holder on the scale end and then touch the screen. NOTE: Do not rush this process. Allow about 5 seconds between steps to give the load cells time to react.**

2. **The scale will TARE automatically.**

3. **Next the display will ask you to add the 500 gram weight to the weight holder and to touch the screen.**







4. **A new calibration factor will be determined. At any time during this process, you can press cancel and you will exit the calibration.**

5. **To save the new calibration and start using it, touch the screen for the final time. After you touch the screen this final time, the scale will store this new calibration factor and send you into the USE SCALES 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.**

6. **To restore factory calibration, enter mode "RESTORE LEFT (OR RIGHT) CALIBRATION".**

Conclusion:

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

The components are assembled in a way that they can be disabbled, 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!!