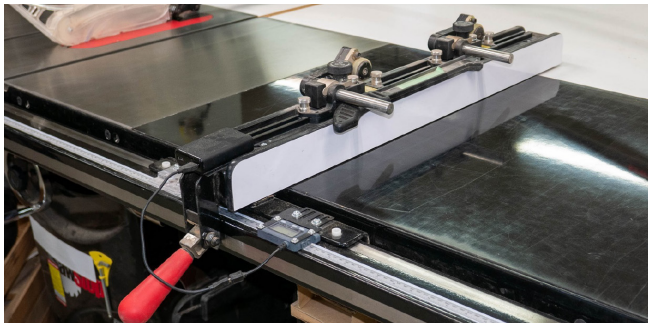
Instructions for installing the iGAGING digital for SawStop tablesaw



Measuring Range: 0-52” /0-1320mm

Reading: 0.0005” /0.0lmm/64th Accuracy: 0.003” /0.08mm

Battery: CR2032 / USB AC Power

Parts Provided for instillation on both the SawStop Professional and Industrial table saw

Other items you will need to install and set up the iGaging Digital DRO on your SawStop:
Digital Caliper and/or a 1″ x 2″ x 3″ block and assorted 1/4″ washers.

Step 1: Remove the fence and clean all dust and oils off the SawStop’s ruler and adjacent regions.

Step 2: Take the double-sided roll of adhesive (included in the supplied parts) and align the strip along the lower edge of the saw’s existing scale. Extend this tape several inches before and after the original ruler, cut as necessary. You can either use a long board to help guide the tape placement or have a friend hold the strip(s) up as you place the tape onto the SawStop’s surface.

Step 3: Now, peel off the top of the double-sided tape and apply the metal beam strip onto the double-sided tape you applied in Step 1. Again, keep this along the bottom edge of the original scale. As with the double-sided tape, you should cut the metal beam off a couple of inches before and after the original ruler.

Step 4: Now, place the fence back on your saw and set it to rip a 2-1/2 inch strip off of a piece of wood. DO NOT MOVE THE FENCE AT THIS POINT! If you have a jointer, use it on one of the edges before this cut. If not, do what you can to get a very flat edge before this cut.

Step 5: To attach the Bracket to the SawStop fence, you will need to use 2-3 washers to raise the height of the Bracket approximately between 13/64″ – 7/32″ (0.203″ – 0.219″). You may need to dig around in your 1/4″ washers to find the necessary thicknesses to make this work. Note: both stacks of washers need to be the same height. You may also need to replace the screws that hold the Bracket onto the fence. The ones that SawStop uses are M6-1.0 (metric) bolts that are 10mm long. You may need to get a pair that are 12mm long. Do not tighten down these screws yet. [Note that there may be some variation in the parts of your saw from another SawStop saw. Your specific needs may vary.]

Step 6: In the parts bag, you will find two small plastic centering guides with two holes and two little “feet.” Place them on both sides of the DRO, feet side down. These will help align the DRO over the measuring strip you’ve just laid down in Steps 2 & 3. Now attach the DRO to the Bracket with the four small screws and washers found in the parts bag. Be careful to move the Bracket up or down to center the guides over the metal beam. Once in place, tighten the two bolts holding the Bracket onto the saw’s fence.

Step 7: Now, make a small mark with a marking pen along the right side’s edge of the DRO on the SawStop’s ruler, then remove the fence from the SawStop.

Step 8: Let's say you ripped the piece of scrap at 2.507″. You now want to take the new ruler that comes with the DRO and place the 2-1/2″ mark of the new ruler where you made the mark with the marking pen (the actual location of where this is on the original SawStop's ruler is irrelevant. [The purpose of the new ruler is for you to quickly move the fence to "about" where you want to cut and then do the fine-tuning of the fence's placement with the DRO.]

As you place the new ruler, overlap the beginning and end of the ruler past the metal Beam on both ends. The Beam has sharp edges (after it's cut), and if you overlap about 1/2″, the ruler will cover the sharp edges. Once you've placed the new ruler over the Beam, you need to press everything down. If you have a J-roller, firmly roll it over the ruler, the Beam, and the double-sided tape to ensure they are all firmly attached to the SawStop. If you do not have a J-roller, lay some masking tape over the ruler (to protect it) and rub everything down with the plastic handle of a screwdriver to make sure that the new ruler (and everything underneath) are firmly attached to the Saw Stop. Once done, remove the masking tape.

Step 9: Replace the Fence onto your Saw Stop.

Step 10: Using the tiny screwdriver from the parts bag, pry open the battery drawer in the side of the DRO facing you and drop in one of the CR2032 batteries supplied in the parts bag. Replace the battery drawer.

Step 11: Now, once again, rip the scrap piece of wood (used before) so it is a bit narrower. The specific width is not critical at this point. AGAIN, DO NOT MOVE THE FENCE!

Step 12: Now's the time to calibrate your DRO accurately. It is necessary to calibrate the DRO before first use or if the calibration is lost. To calibrate, take the ripped board (from Step 9), and measure the board's width with a digital caliper (for example, 2.234 inches). Then, enter that measurement as follows using two of the three push buttons on the DRO:

- If not already on, press the power button on the right side.
- Before calibration, use the unit button to switch the digital display to decimal inch (xx.xxx) or millimeters (xxxx.xx). If "INC" is shown in the lower-left corner of the display, push the Cal/0 button once to change it to "CAL."
- Begin the calibration process by pressing both the Unit and Cal/0 buttons for 3 seconds. You know you've started the process when the first digit on the screen begins blinking.
- Each short press of the Unit button increases the blinking digit by l, from 0 to 9 (after 9, you will begin again at 0).
- Each long press of the Unit button moves on from the blinking digit to the following sequential number to the right.
- So, as in our example, from the measurement of the board, just cut, set the first digit to 2, hold the button a long hold to go to the following number, set it to 2, then press a long press to select the next digit and set it to 3, etc. until you match the exact with of the board you just ripped.
- When the calibration is complete, press the Cal/0 button to exit the calibration mode. You are now free to move the fence to see a very accurate digital, fractional or metric measurement.

Shortcut Calibration: In decimal inch mode, the digital can be preset to 2-inches by holding down the Cal/0 button for 3 seconds. This method is a quick but less accurate way to calibrate the DRO. Here's how:

- Place a 2-inch block (e.g., 1" x 2" x 3" block) between the fence and blade.
- Now, hold down the Cal/0 button for 3 seconds. The display will auto-calibrate itself to 2.000 inches.

The DRO Digital In Use: When you move the fence to cut boards at different widths, the digital display will change to show the new measurement. Each press of the unit button changes the display between decimal inch, fractional inch, and millimeters. The DRO will turn off after 5 minutes of inactivity and return to actual measurement when switched back on.

Incremental steps: If you want to move the fence in measured incremental steps (that is, always starting from zero), the DRO has an incremental measurement mode. From actual measurement mode, press Cal/0 to enter incremental mode. The display will switch to all zeros, and “INC” will show on display. As you move the fence, the digital display will show the change. To return to actual measurement mode and display the distance between the fence and blade, press the Cal/0 button again. Incremental is just like placing a cup on a scale and tarring (setting the balance to zero) so that you weigh the items in the cup,

Batteries: The DRO uses the included CR2032 battery. However, if you want, You can also attach a rechargeable battery bank with a USB connection to power the digital display.