

Instructions for Installing the iGaging Digital for the DeWalt 734/735 Planer

Note: Please read through the installation instruction; you must do some steps in the correct order.

Tools needed for installation:

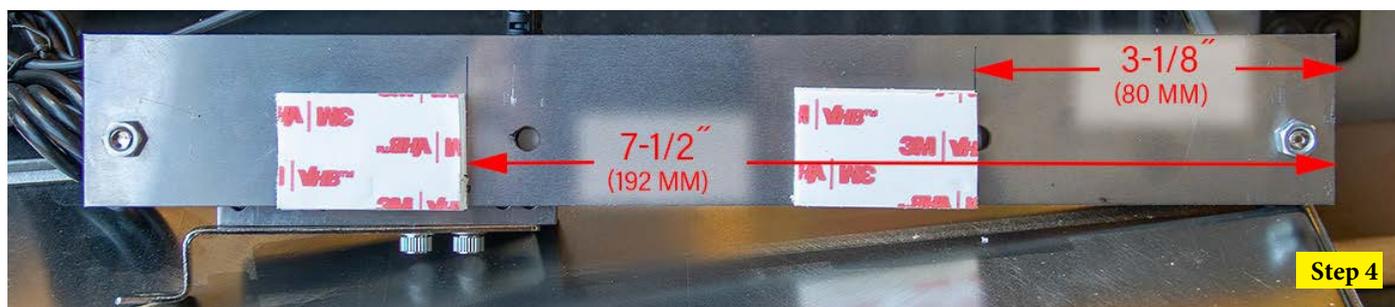
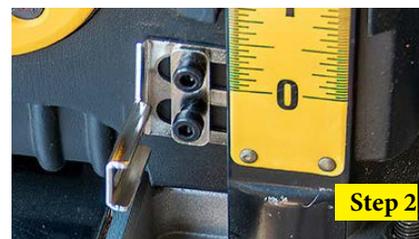
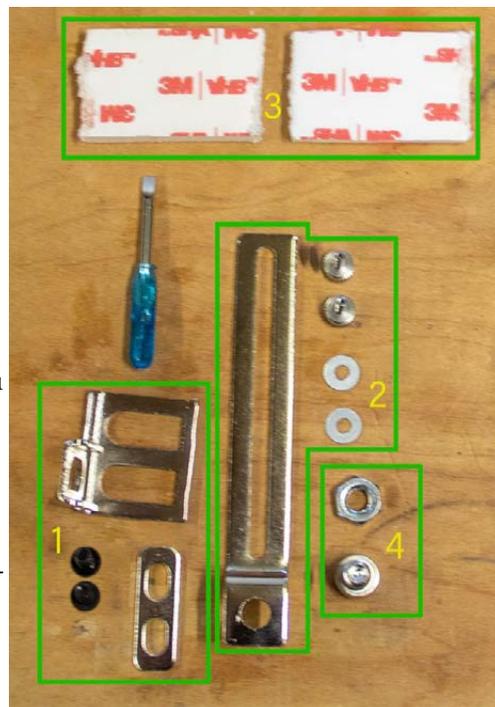
- 3mm, 4mm, & 5mm Allen Key wrenches.
- Acetone or Alcohol & rag (for cleaning pieces before assembly)
- #2 Philips screwdriver (for removing DeWalt cursor)
- Small crescent wrench

Parts included:

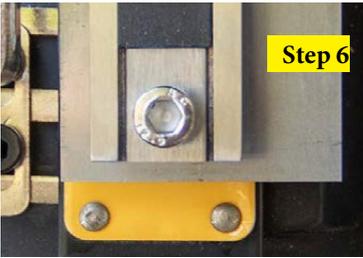
The manufacturer included extra parts. The image to the right shows the parts you need for installation. In the photo, we've separated into the various steps the components you will need to assemble the Planer DRO onto your DeWalt Planer 734/735:

Installation Instructions:

- Step 1)** Remove the Red Cursor that came on the DeWalt Planer by removing the two hex bolts that hold it in place.
- Step 2)** Replace the Red Cursor with the DRO Mounting Bracket using the two dark hex-head bolts and the double-washer. Do not tighten these bolts yet. You will need the 3mm Allen key to work with these screws. [These parts are in the green rectangle #1]
- Step 3)** Install the two tiny screws (with knurled knob) and the small washers through the DRO Slide Lever's side and into the DRO unit. The part of the Slide Lever that bends out should be facing out from the bottom of the DRO. You will tighten these screws later. [These parts are in the green rectangle #2]
- Step 4)** Take some acetone on a rag and wipe the back of the sheet metal holding the DRO to clean any dirt and oil off the back. Mark on the back (from the top) a line 3-1/8" and a second line 7-1/2". Now take the spacers (from the green rectangle #3 in the parts photo), peel off one side of the double-sided tape, and place the spacers on the FAR-RIGHT side, flush with the sheet metal edge UNDER each of the lines just drawn.
- Step 5)** If the Cap Screws on the top and bottom of the assembled unit is loose, tighten them now. You'll need a 4mm Allen Key and a small crescent wrench.
- Step 6)** Place some acetone on a rag and clean any dirt and oil off the face of the Planer's yellow ruler. Remove the remaining double-sided tape off the spacer and place the bottom of the sheet metal back of the DRO just above the two rivets in the DeWalt ruler WITH the left edge adjacent to the left edge of the ruler. Start by placing just the bottom of the sheet metal back against the ruler, then slowly lift the rest of the DRO, carefully keeping the left edges aligned. Once you have things in place, squeeze (with your thumb and fingers) the two metal surfaces together to get the double-backed adhesive tape to stick on both metal surfaces.

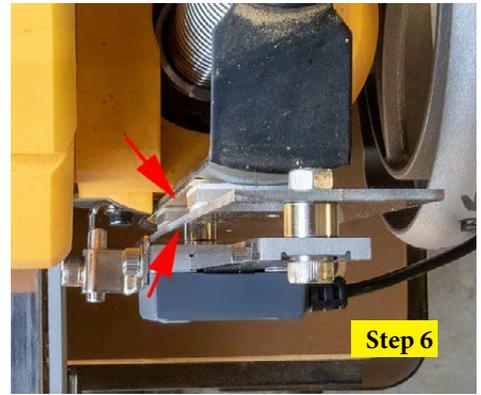


- Step 7)** Now join the two brackets with the last bolt and nut (rectangle #4 in the parts image). Note that the nut fits in the U-shaped space of the mounting bracket. You will need a 5mm Allen Key to tighten this bolt and nut.
- Step 8)** Now, tighten the loose nuts from step #2 while moving the bracket left or right to ensure the DRO can slide up and down without any sideways drift. (Note that you can access the two nuts from both above and below the bend in the Slide Lever.)



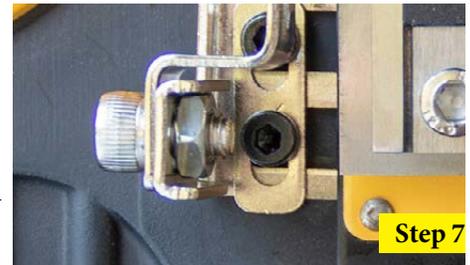
Step 9) Next, slide the DRO so that the DRO's bottom is about 1/4" below the bottom curve of the Slide Lever. Once in position, hand tighten the Slide Lever screws.

Step 10) An included new ruler mounts on the right side of the sheet metal back and behind the DRO. But, to place the ruler, you may need to do a calibration first. The ruler functions as a cursor to quickly help get the height of the Planer's cutting head close to where you want, but it will not provide the same level of accuracy as the digital readout. A quick way to get the ruler very close to accuracy is to set the Planer stop (the wheel on the far-left side of the Planer) to 1" and lower the Planer until you feel resistance on the height adjustment wheel.

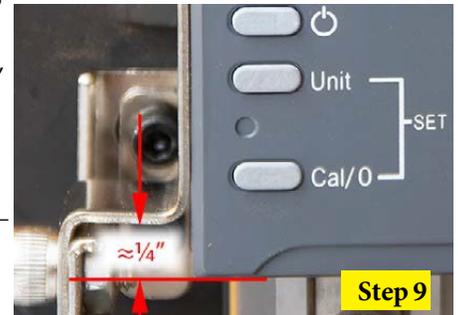


Step 11) Now, place some acetone on a rag and clean the front right side of the sheet metal back. Take one of the rulers and peel off about 2" of the release liner off the bottom. Your goal here is to place the 1" line of the ruler just behind the top of the DRO. (By not entirely removing the release liner on the adhesive strip, you can more easily set the ruler's placement.) Once you've set the placement, remove the rest of the paper liner and attach the rest of the ruler. The ruler is longer than necessary, so cut off what's not needed.

Step 12a) Install the battery: Using the provided tiny, blue-handled screwdriver as a lever, open the battery compartment on the right side of the DRO. (When the (2032) battery dies, you must re-calibrate the DRO after replacing the dead battery.)



Step 12b) Attach an external battery for longer battery life: Part of the DRO is a long USB cable that is plug-compatible with most mobile phone/tablet USB external power sources. We've found the Tsumi "Pocket Juice" a reliable product but whatever you get, be sure to get a unit with an indicator of the battery's charge status. Also, you may want to get one that allows you to charge the power source from AC while it's attached to the DRO.



Calibration

Calibration of the DRO requires a freshly planed board, with the dimension entered on the DRO. The actual measurement is irrelevant, but it must be something just planed on your Planer.

- 1) Run some wood through the Planer so that top & bottom are flat and uniform. At this point, DO NOT move the height of the Planer
- 2) Measure that board's thickness with a caliper
- 3) Press the power button to turn the DRO on
- 4) Before calibration, use the unit button to switch the display to decimal inch (0.000)
- 5) Press & hold both the Cal/0 + unit button until 1st digit on the left is blinking
- 6) Press the Unit button to increment the digit until the number you want is showing
- 7) Press and hold the Unit button until the next digit is blinking (this takes a second or two)
- 8) - 9) Repeat steps #6 & #7 until all numbers are the same as what's on your caliper.
- 10) Once done, press the Cal/0 button — The DRO will remain calibrated until the power to your unit goes out.



How to use

Once calibrated, all that's left to do is press the Power button when you want to use your new DRO. You can turn the unit off by pressing the power button again, or it will self-turn off after about 5 minutes.

By pressing the "Unit" button, you can cycle through Inch-decimal, Inch-fraction, and Metric measurement on display.

Pressing the Cal/0 button for an incremental measurement: By pressing the Cal/0 button, you can zero out the display to 0.000" if you wish to remove (say) 0.013". Then lower the planer head to -0.013" and plane the wood. Once done, press the Cal/0 button again to return to the actual calibrated measurement. While there is battery power, the unit will remain calibrated even if you move the height of the Planer's head with the DRO turned off.

