

## PianoDisc Adjustable Sustain Tension Kit Installation Guide



The adjustable sustain tension kit allows for an increase in spring tension in any grand piano. It is often the case that installing a player system on a piano may decrease the tension of the sustain pedal. This is often a requirement due to the fact that the pedal solenoid requires the minimum amount of tension to ensure it doesn't overheat. This kit allows you to add the spring tension back to any pedal by placing the spring on the lyre.



## Installation

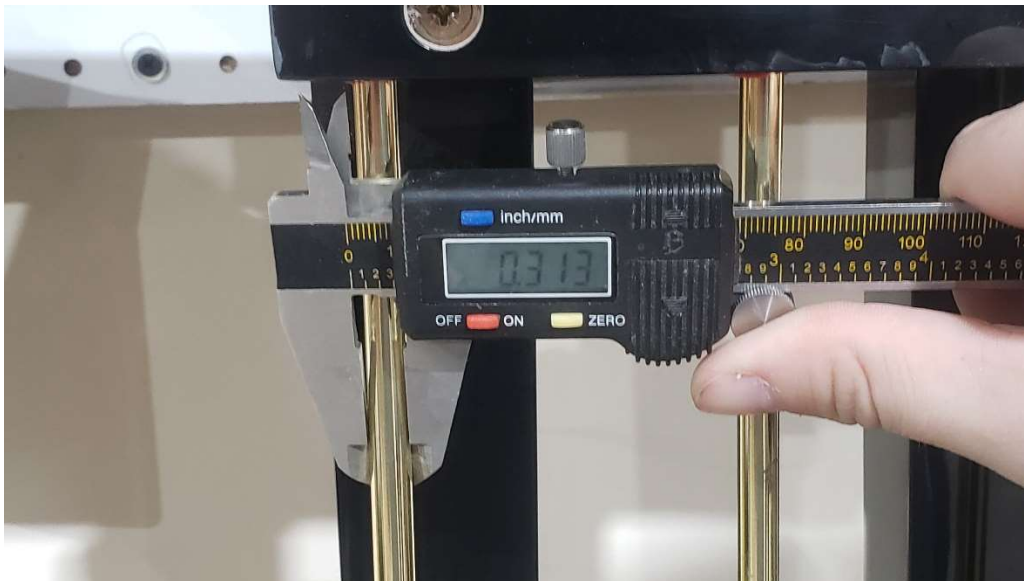
Step 1: Verify the contents of the bag.

There should be 1 spring, 1 collar, 1 microfiber pad, and 1 black solenoid screw.



Step 2: Measure the pedal rod.

There are many different sizes of pedal rod. To ensure that this collar works with any rod, you are expected to drill it out to the appropriate size yourself. We have included a pilot hold for your convenience. We can see that this rod is 0.313"



Step 3: Find an appropriately sized drill bit.

Now we need to find a drill bit that closely matches the size of our pedal rod. Since ours is 0.313", we are going to look for one that is greater than or equal to that size. The closest we can find is 0.327" which will work. Do note that the tighter the fit, the better.



Step 4: Drill out the collar.

Now we simply drill the hole.

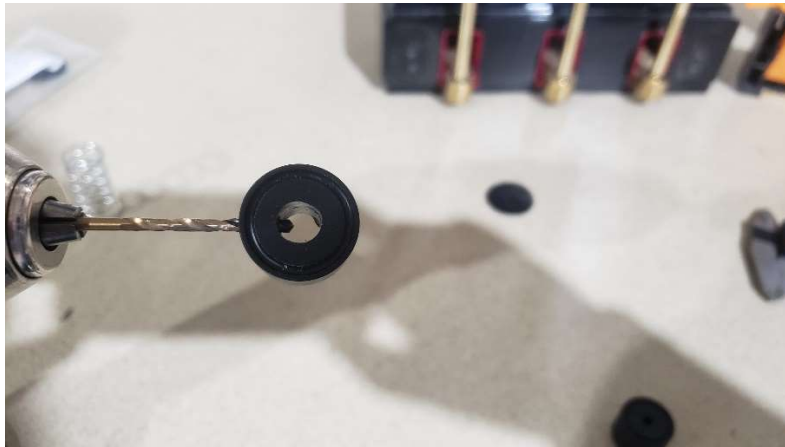


Step 5: drill a hole for the locking screw.

Now you are going to want to drill the hole for the locking screw. You are going to want to make sure to choose an appropriate pilot drill size. When lined up, you should see the threads on each side, but none of the core. We also recommend using a punch to help start the hole. Then you simply drill



**Important:** make sure you only drill halfway as seen below.

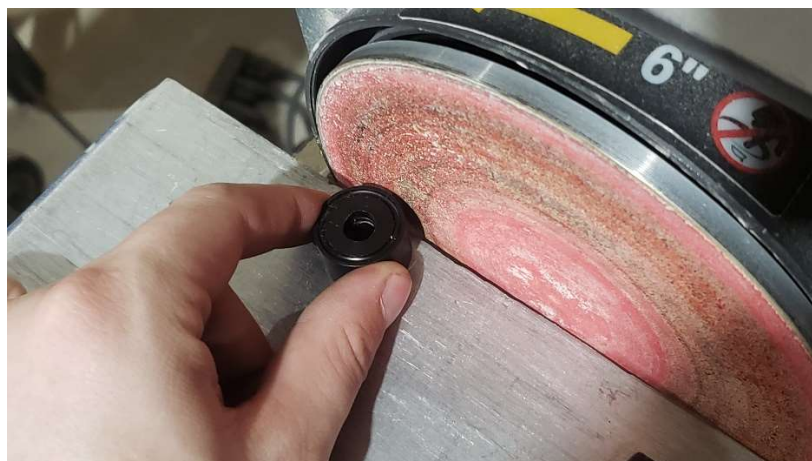


Step 6: Ensure that the locking screw will reach the pedal rod.

You want to ensure that the locking screw is long enough to contact the pedal rod as seen in the image below.



If this is not long enough, we recommend using a sander to flatten the side with the hole as seen below.



Step 7: cut a hole in the microfiber.

Now we need to add some padding for the spring to prevent noise. For this we have provided a bit of microfiber cloth. Since we don't know how large the hole should be, we have left it in one piece. You can make the hole by using an appropriately sized punch that is slightly larger than the rod diameter, or you can simply cut a square with a piece of scissors as seen below.



Step 8: Mount pad, spring and collar and set the tension.

We can now finish up the installation and attach the kit. Start by putting the locking screw part way into the collar. Undo the pedal rod from the bottom and start by sliding the pad, the spring, and the collar in that order. Move it all the way up to the top and set the tension by compressing the spring to the desired amount. You can play around with this part to set the tension to the desired amount. Now you are done.

