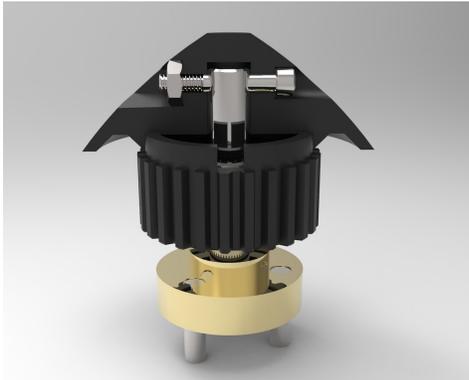




## Nose Cone End Cap Bolt Installation



You've received a 3D printed belt drive gear and nose cone end cap modified with a nut and bolt instead of the original pin. The bolt provides a much improved repairability for the nose cone as the original pin is VERY difficult to remove and replace, sometimes resulting in severe damage to the shaft.

But, it will require you to enlarge the hole slightly as the #8-32 hex cap screw provided is slightly large in diameter than the original pin.

You have been provided with a #19 numbered bit with a diameter of .166" to enlarge the original hole which is approximately .142". This is a very small amount - only 14 thousandths - to enlarge. The diameter of the #8-32 hex cap screw is .161", so this will create a nice clearance fit for the bolt.

While using a drill press is possible, it is actually very simple to just hold the shaft firmly in your hand and, using a hand held electric drill enlarge the hole. The key is to drill SLOWLY and gently. The bit will guide itself straight into the hole by itself. If the bit catches, don't force it, back off and try again. Test fit the bolt in the hole once you are done.

To install the Nose Cone, first put the bearings and belt drive gear on the shaft and slide the end cap on. Make sure the dogs in the gear and cone align. It should bottom out on the shaft.

Insert the bolt and nut and tighten with the 9/64" Allen Key provided. This only needs to be tightened a little. There is no need to over tighten. DO NOT OVERTIGHTEN or you may crack the cone. If you wish, put a drop of medium strength Loctite blue on the bolt threads so it can be removed later if necessary.

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