

# Vixen Porta-I/II: Encoders Installation

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Set for each Altitude and Azimuth (except the hex key which is supplied only for one)



Tools required:

- 1/2" or 13mm spanner
- 10mm spanner
- Philips screwdriver
- Allen key (comes with the mount)



MOST DIFFICULT PART - Start with removing the altitude dovetail mounting decal using a knife (the decal has an adhesive on the back) or a suction cup:



That will uncover the screws holding the block with the slow motion mechanism.



Remove the screws using the allen key supplied with the mount:



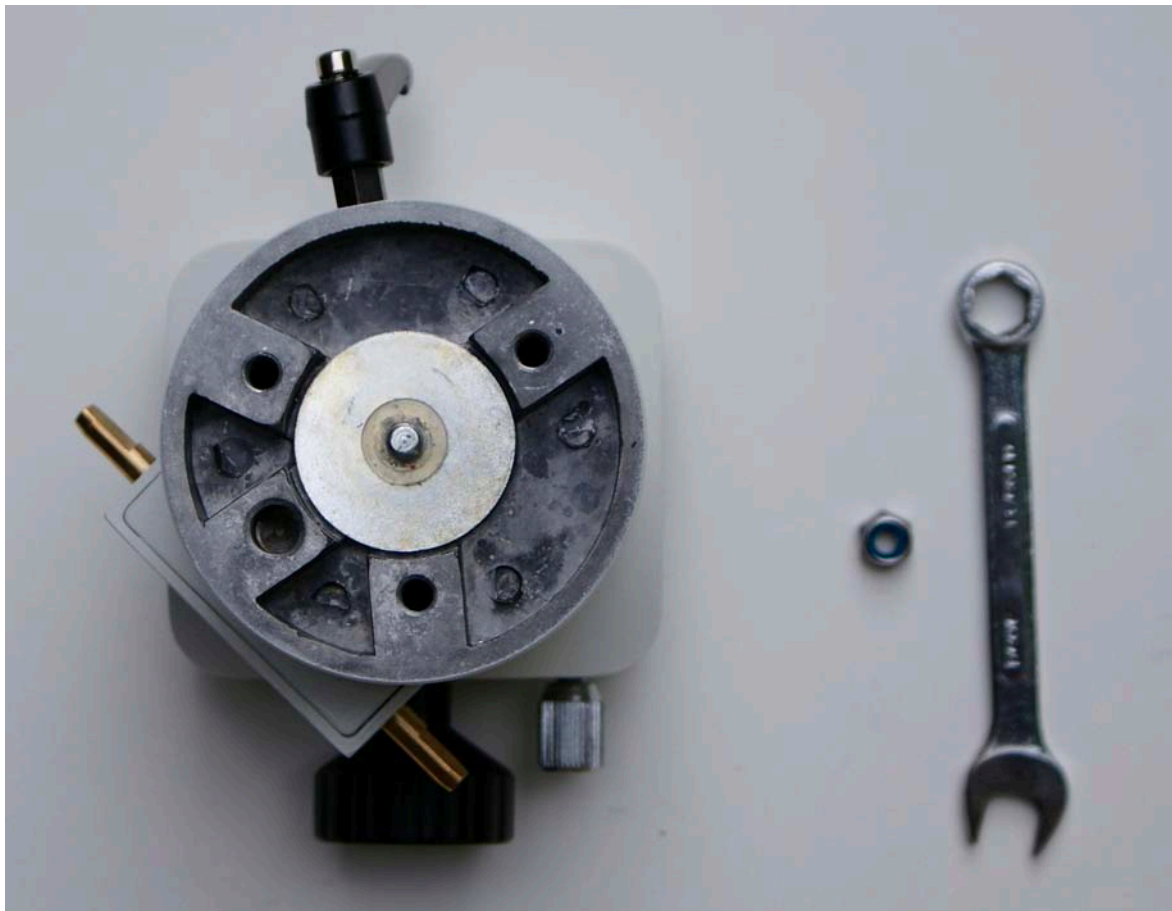
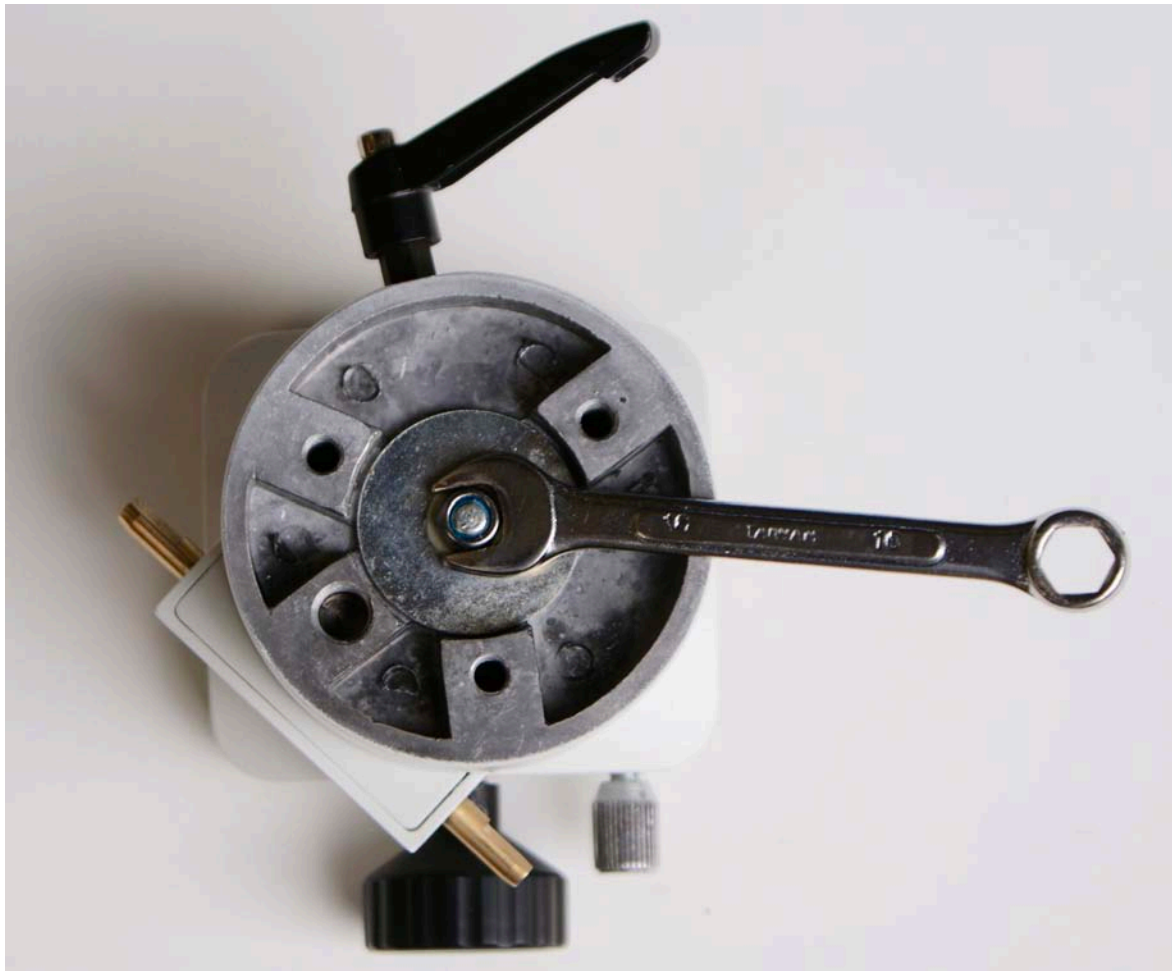
Then remove the mount head footing:



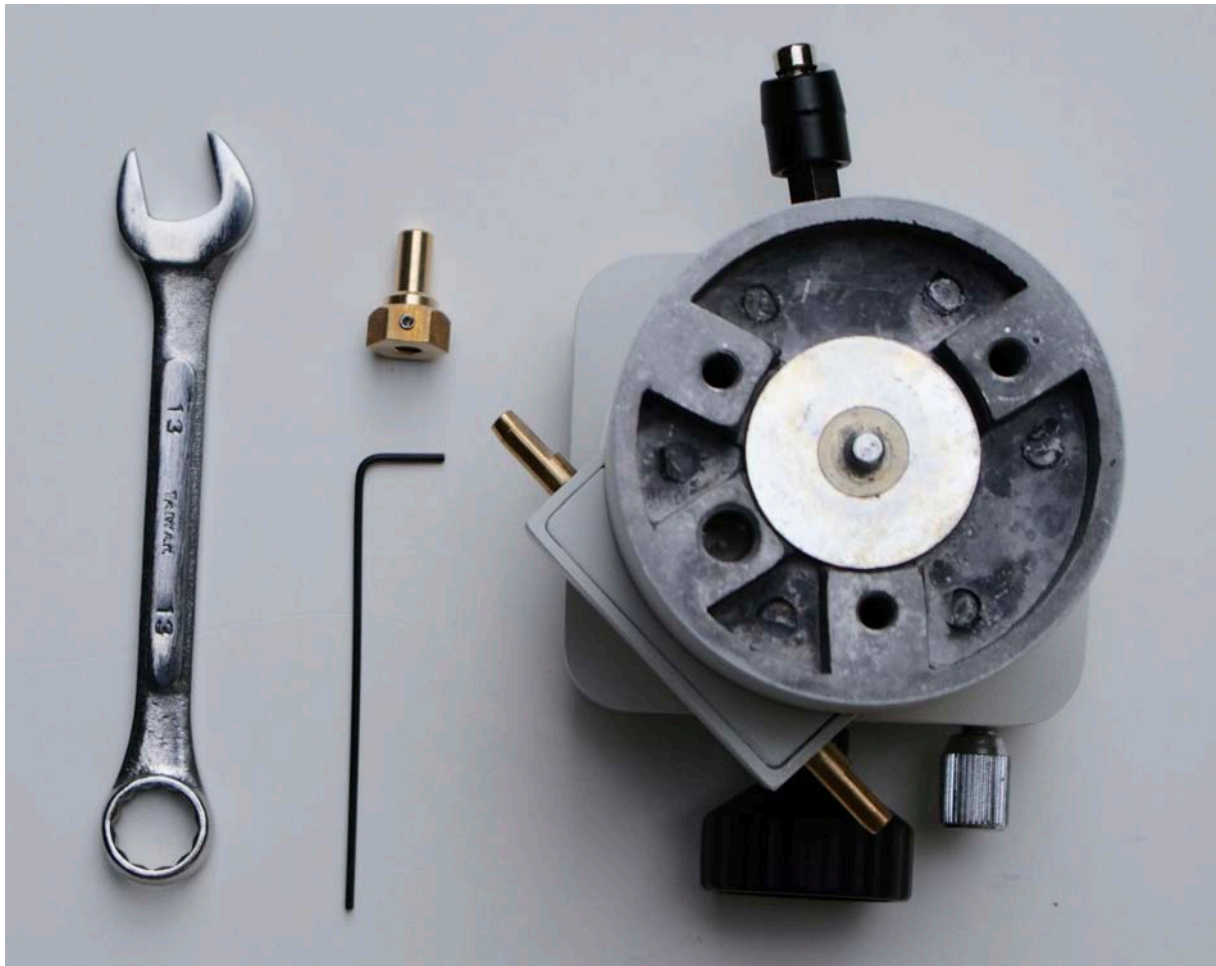
Remove the locking nut and leave the plastic washer on the axel:

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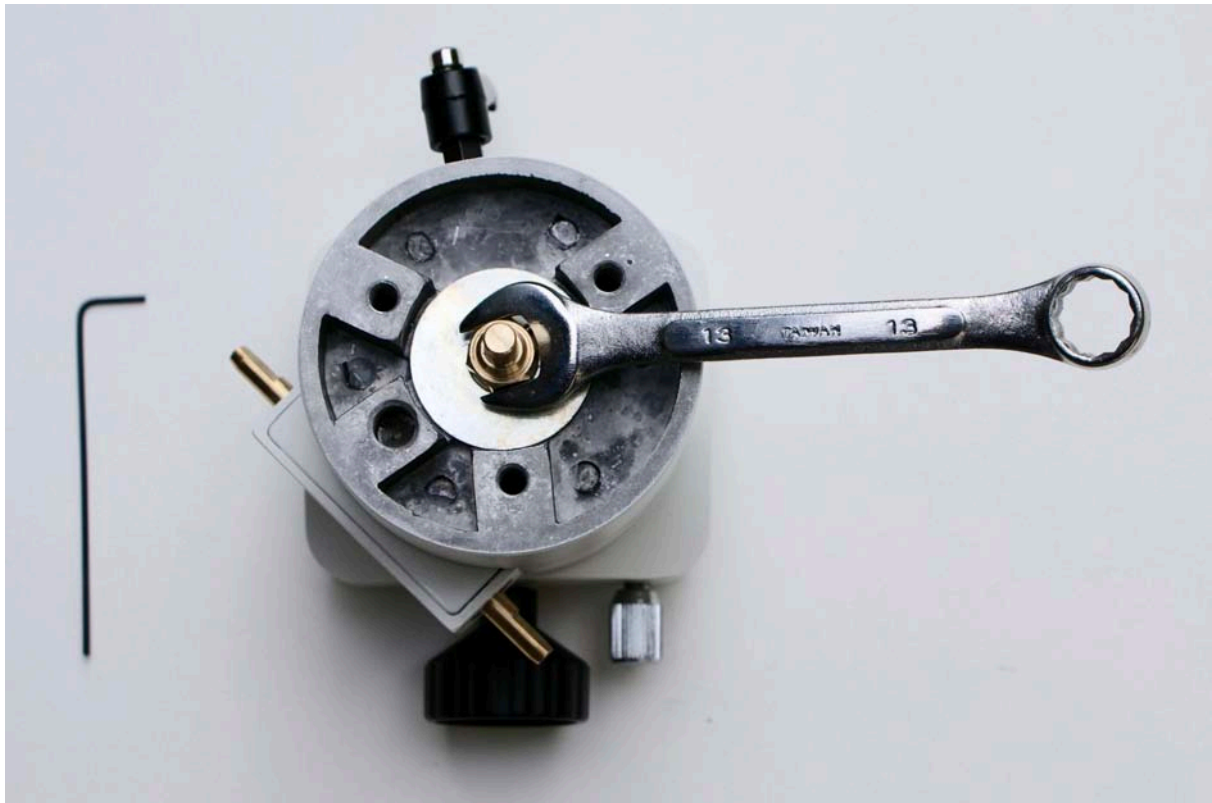


Screw the brass encoder shaft in place of the locking nut:  
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Tighten the shaft achieving the same tension as before:

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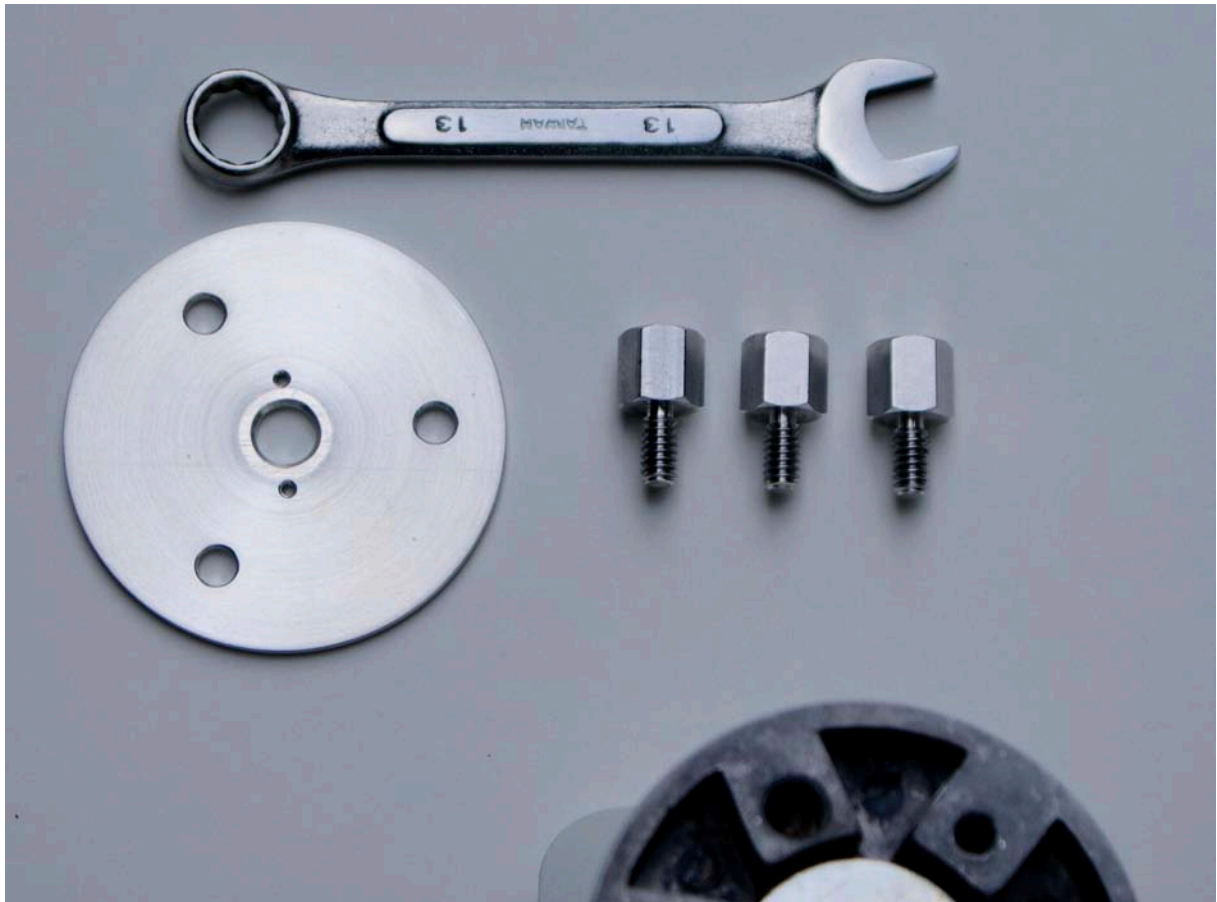
Tighten the set screw using the supplied Allen key:



Next step requires the encoder mounting disc and three aluminium standoffs:

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Place the disc on top of the mounting holes matching three holes on the disc to the threaded holes:



Screw the standoffs in:

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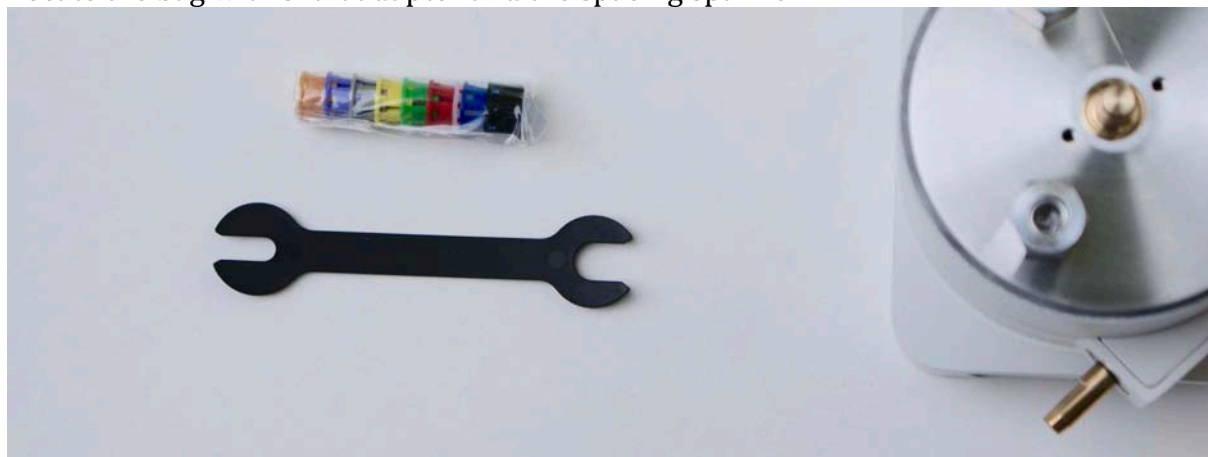
Use the spanner to tighten the standoffs.



**Do not over tighten the standoffs or they will break!**



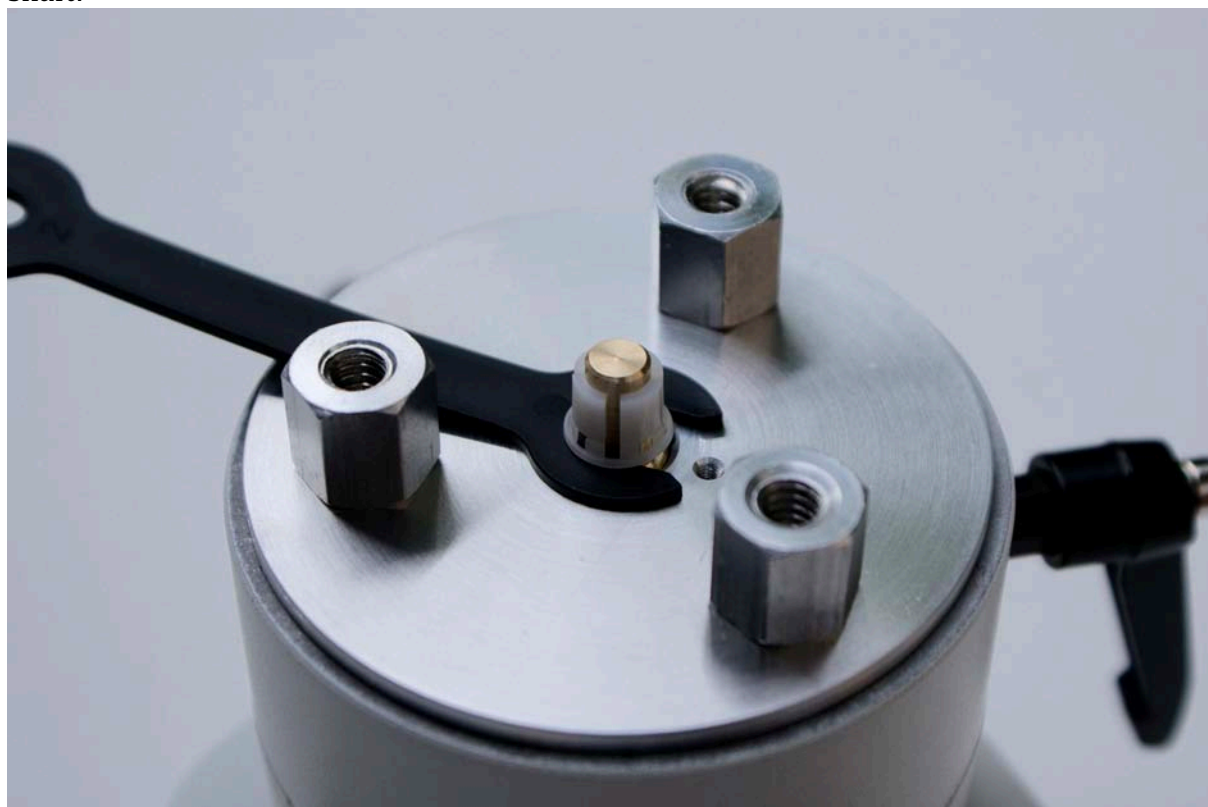
Locate the bag with shaft adapter and the spacing spanner:



You will need to use the white sleeve:



Place the spacing spanner over the encoder shaft and put the white shaft sleeve over the shaft:



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Put the black shaft adapter on top and push it all the way down, then remove the spacing spanner:



For the next step you will need the encoder base plate with a centering tool, two M2.5 screws and a screwdriver:

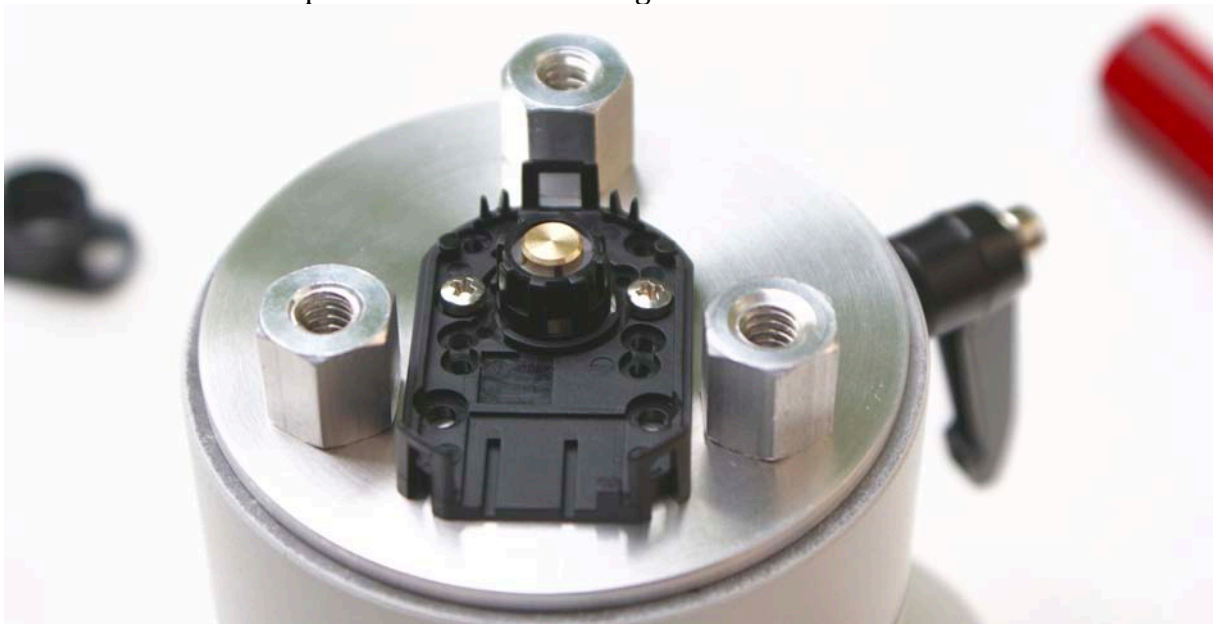




Place the base plate and insert the screws:



Turn the screws a couple of turns but do not tighten them:

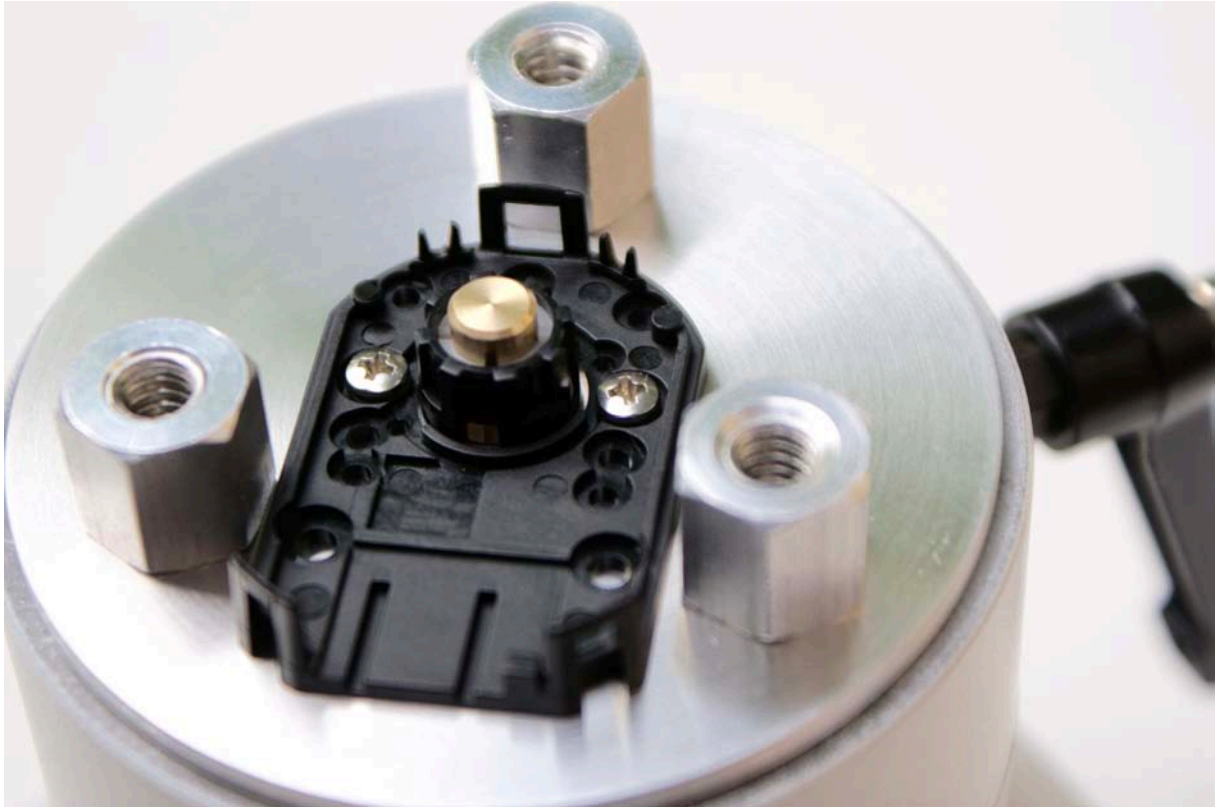


Place the centering tool on top – push it in. You may need to rotate the bottom part until the holes in the centering tool are over the screws:



Tighten the screws now:





You will need the ring with the socket and the encoder body for the next step:



Place the encoder body on top:



And push it down until it is locked:





Plug the connector into the encoder:



Put the ring on top and put the cable around the standoffs:



Place the assembled altitude encoder under the mount arm, put the screws back in and tighten them:



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Finished for the altitude.

Please follow the same steps for the azimuth encoder installation.



**Finished!**

Please note that you need to set your DSC to 8192 steps.