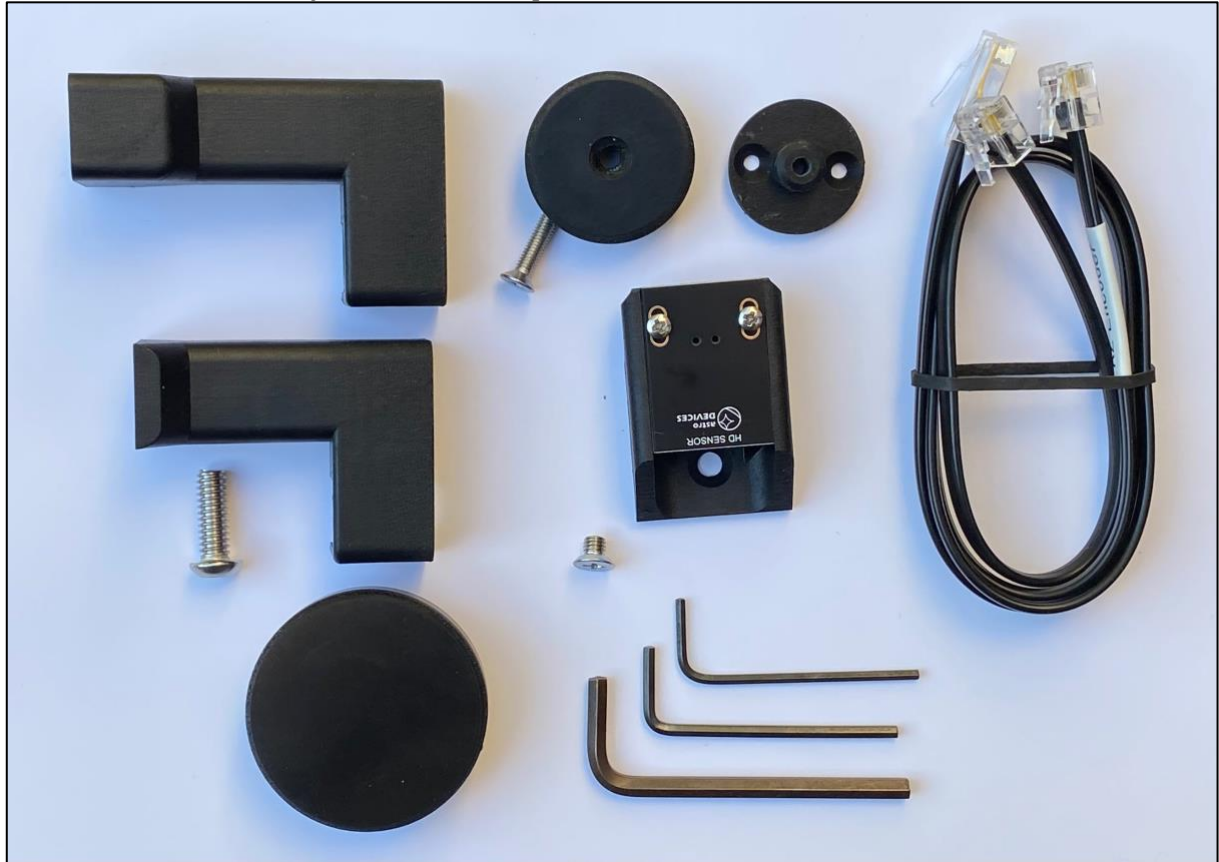


Televue mounts: Encoders Installation

Compatible mounts: Telepod, Panoramic and Gibraltar HD4/HD5

Please make sure that you have all the parts included in the kit:



Altitude Encoder resolution: 204800 steps

Azimuth Encoder resolution: 311296 steps

Current consumption: 20 mA each

This instruction booklet shows the installation procedure for each encoder.

Tools and materials required:

- Hex keys: 5/64", 2.5mm and 5/32" (supplied)
- Philips head screw driver (not supplied)



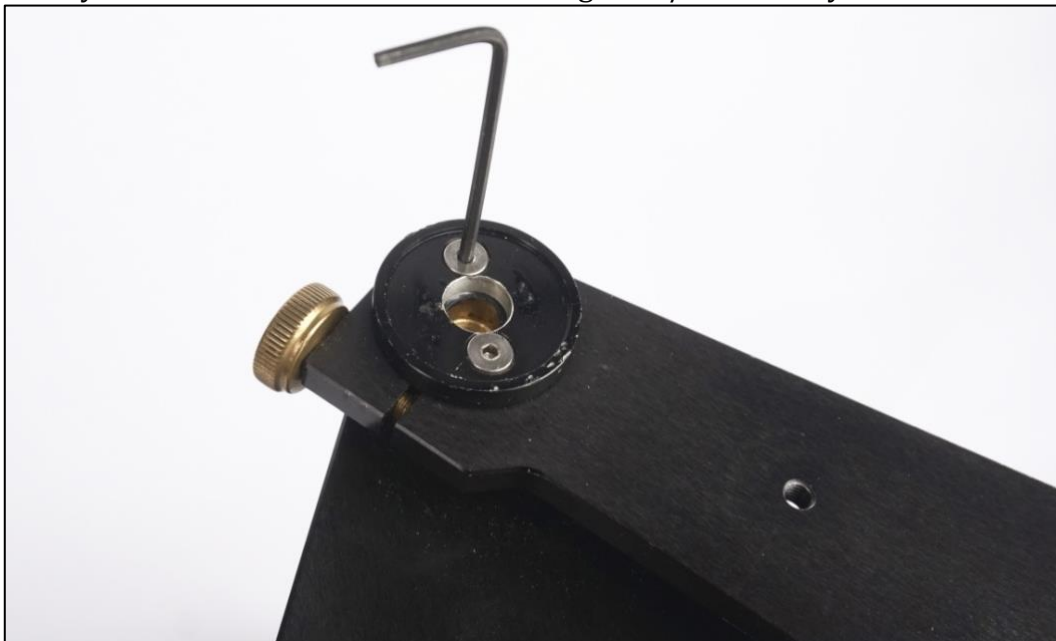
Do not subject encoder disks to magnetic fields as it may affect the magnetization of the magnetic multi-pole rings.

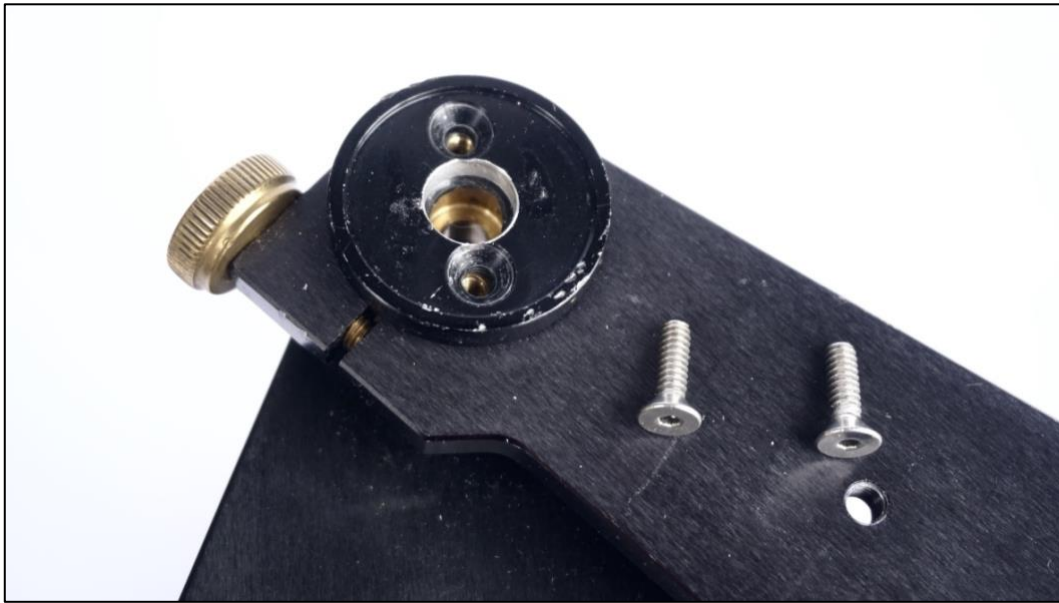
Altitude encoder installation

First you need to remove the faceplate covering the right altitude shaft. You can use a sharp knife to lift it:



Then you need to remove two screws using the 5/64" hex key:

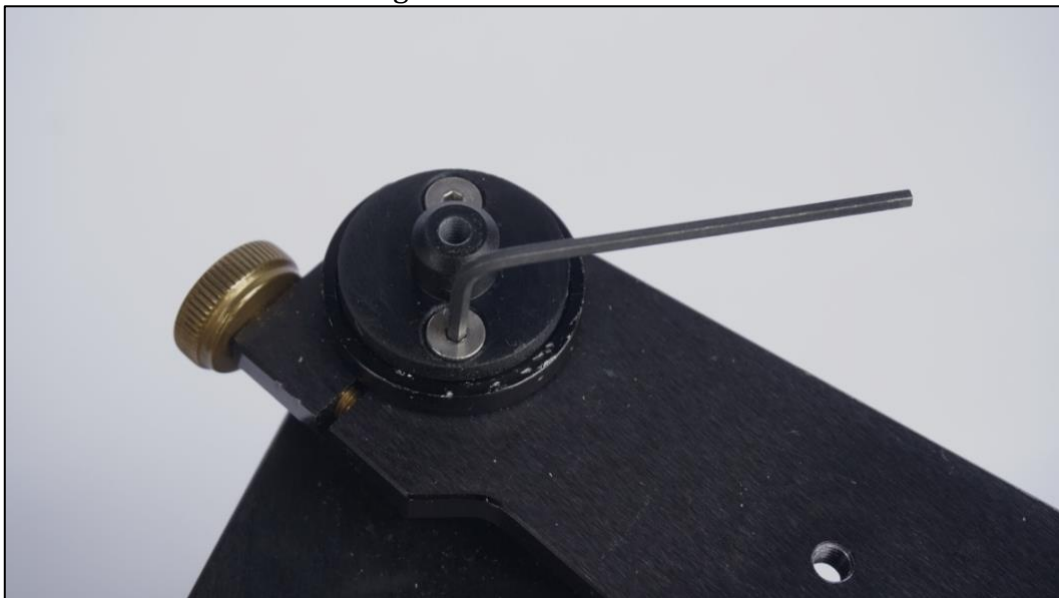


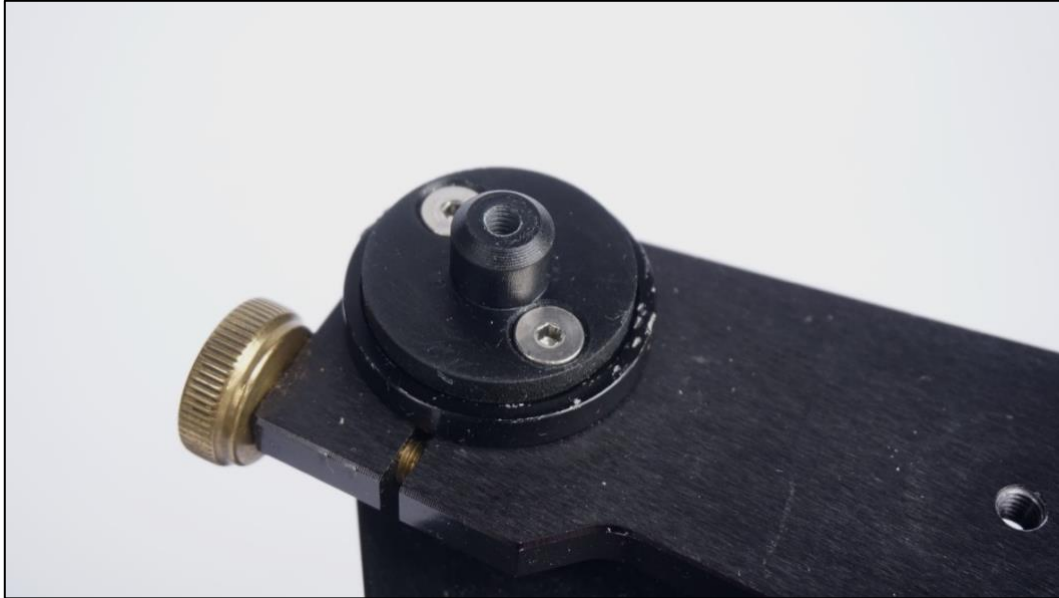


Next put the altitude encoder disk shaft on top aligning holes with the holes below and threaded holes:



Put the screws back in and tighten them:





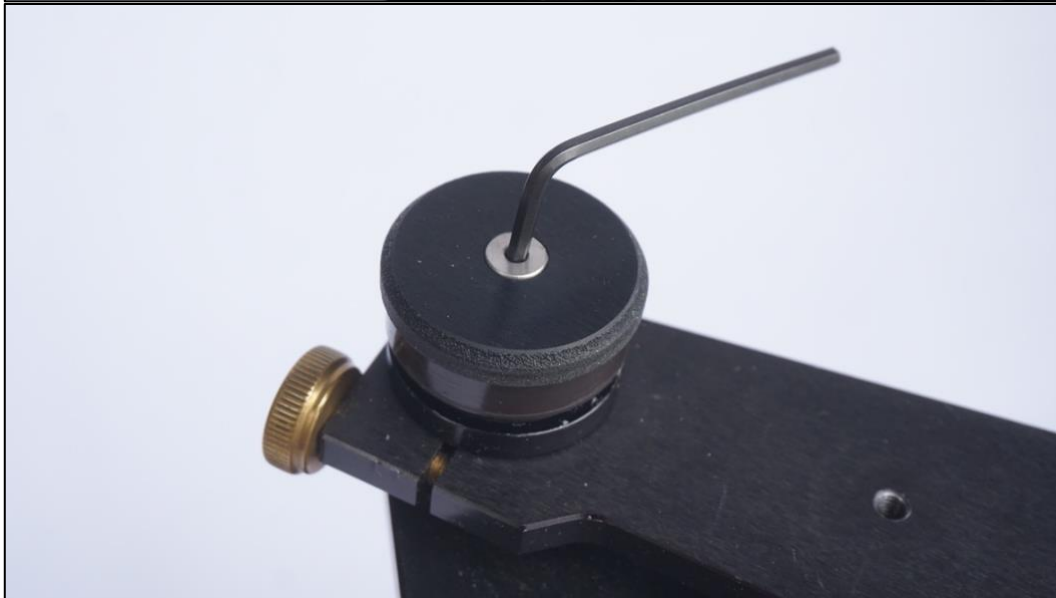
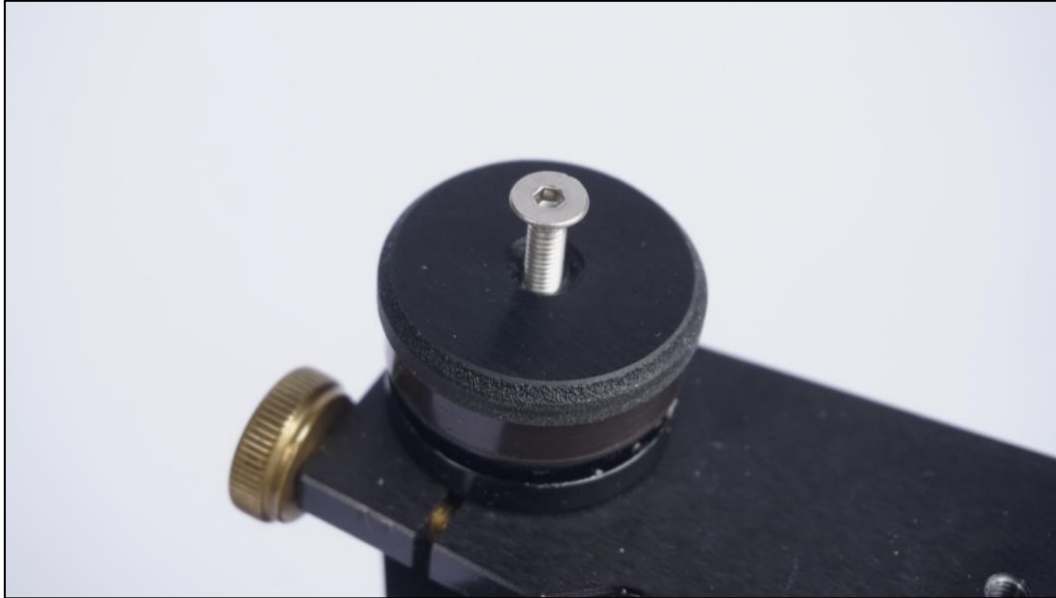
Now you need the altitude encoder disk and the M4 screw:



Put the encoder disk on the shaft and push it all the way down:



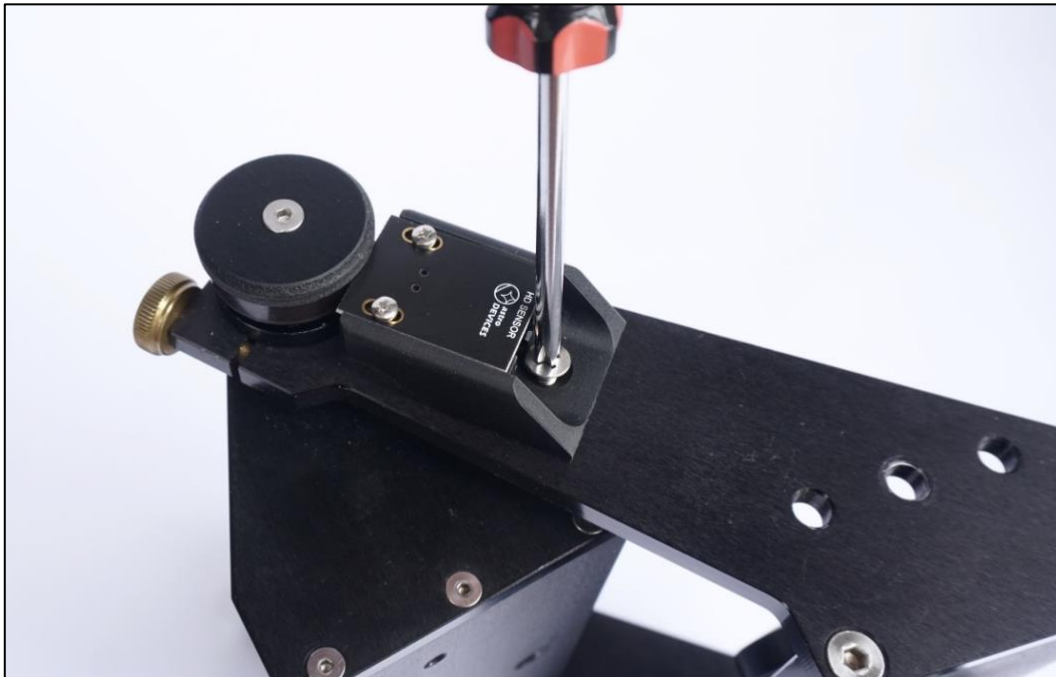
Put the screw through the hole and tighten it using the 2.5mm hex key:



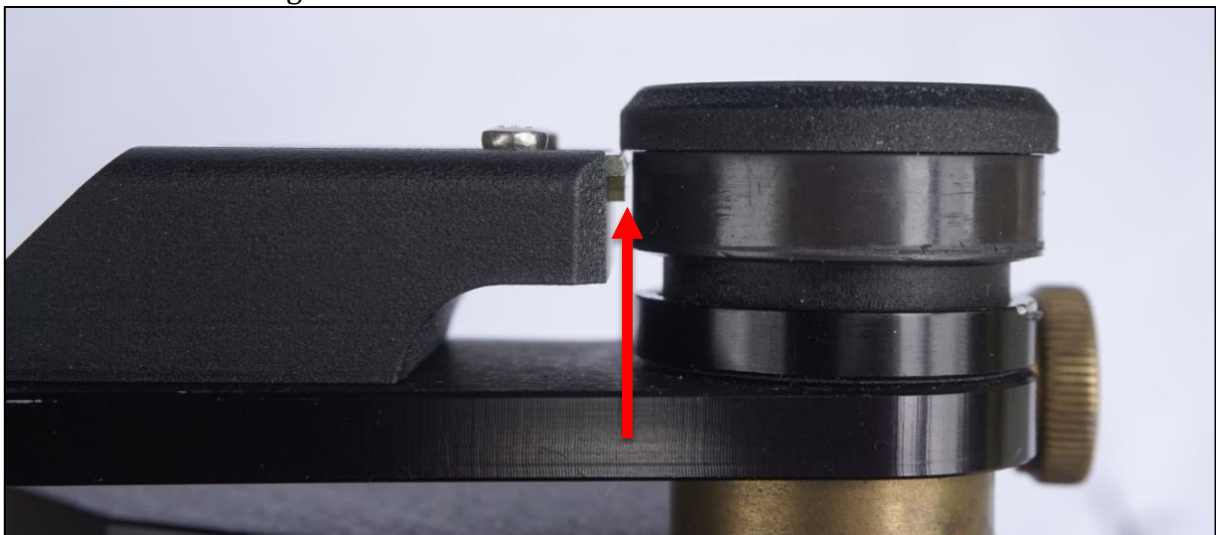
Now install the altitude encoder readhead:



Tighten the screw making sure the readhead is positioned symmetrically on the side arm of the mount:



NOTE: You need to check the gap between the encoder ring and the readhead. The gap should not exceed 0.8mm – it can be as small as possible without the readhead touching the surface of the ring:

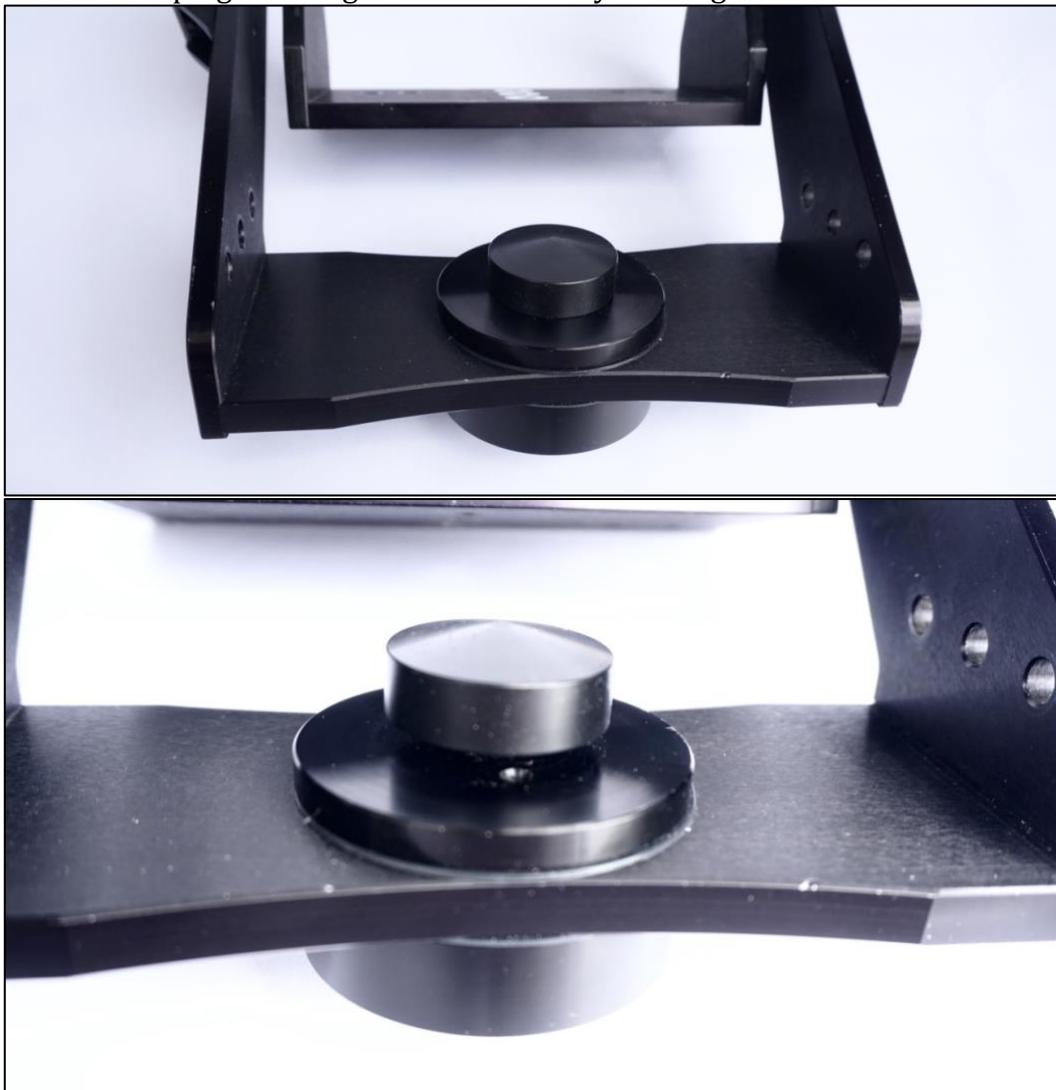


To adjust the gap you need to loosen two screws holding the readhead PCB and move it accordingly then tighten the screws.



Azimuth encoder installation

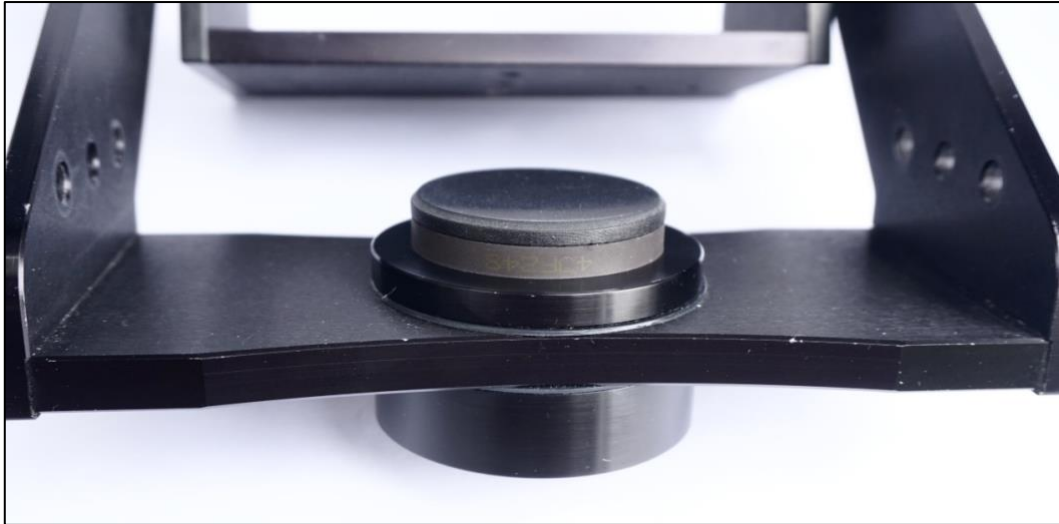
Remove the plug covering the centre hole by rotating it counterclockwise:



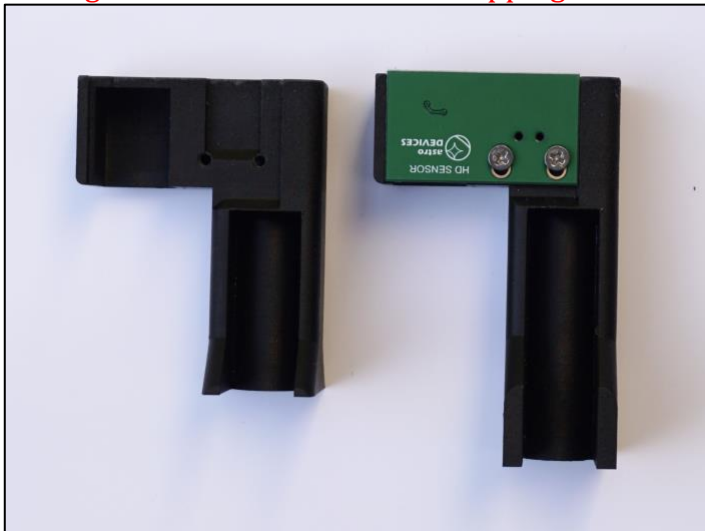
Put the azimuth encoder disk in place of the remove plug:



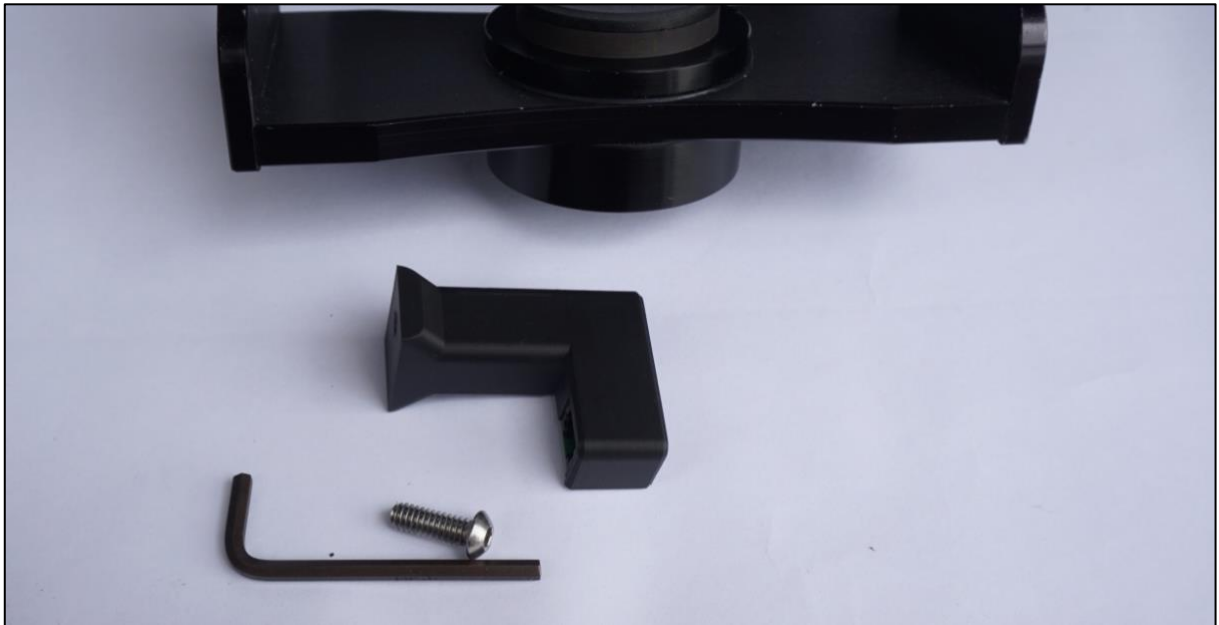
Rotate it clockwise until it cannot rotate further.



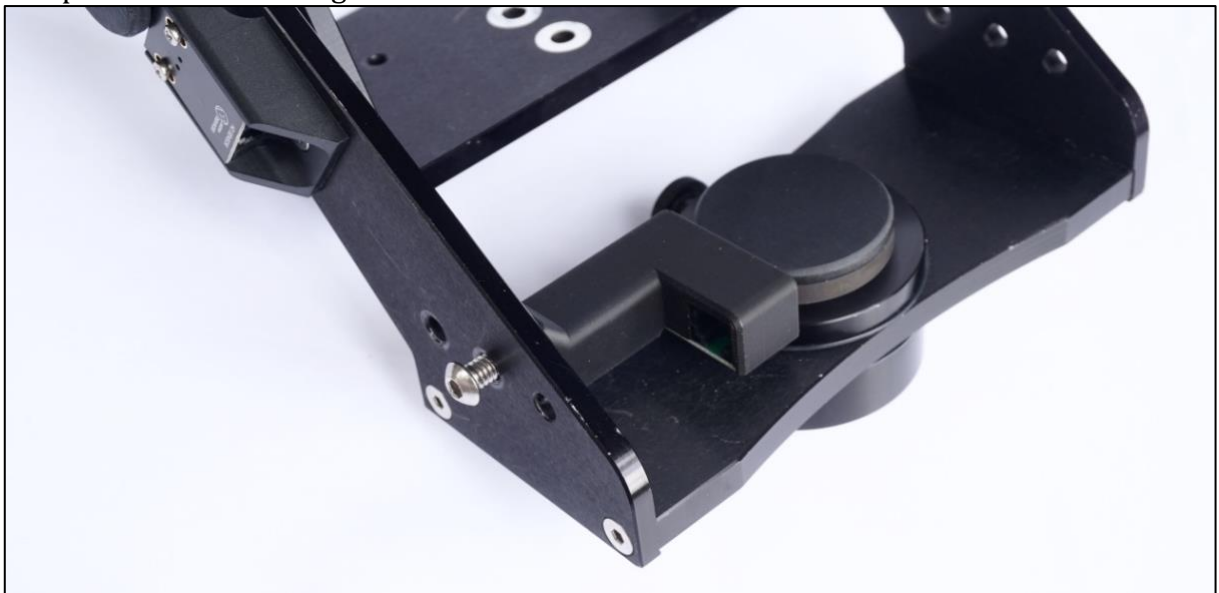
NOTE: The azimuth encoder readhead is different for Gibraltar HD5. If you have the HD5 mount then you need to remove the green PCB from the plastic holder and move it to the longer holder designed for the HD5 as shown in this photo (please make sure to not overtighten the screws to avoid stripping the threads):



Now you need the azimuth encoder readhead, 1/4" button head screw and the 5/32" hex key:



Position the readhead aligning the mounting hole with the centre hole of the right arm and put the screw through the hole:

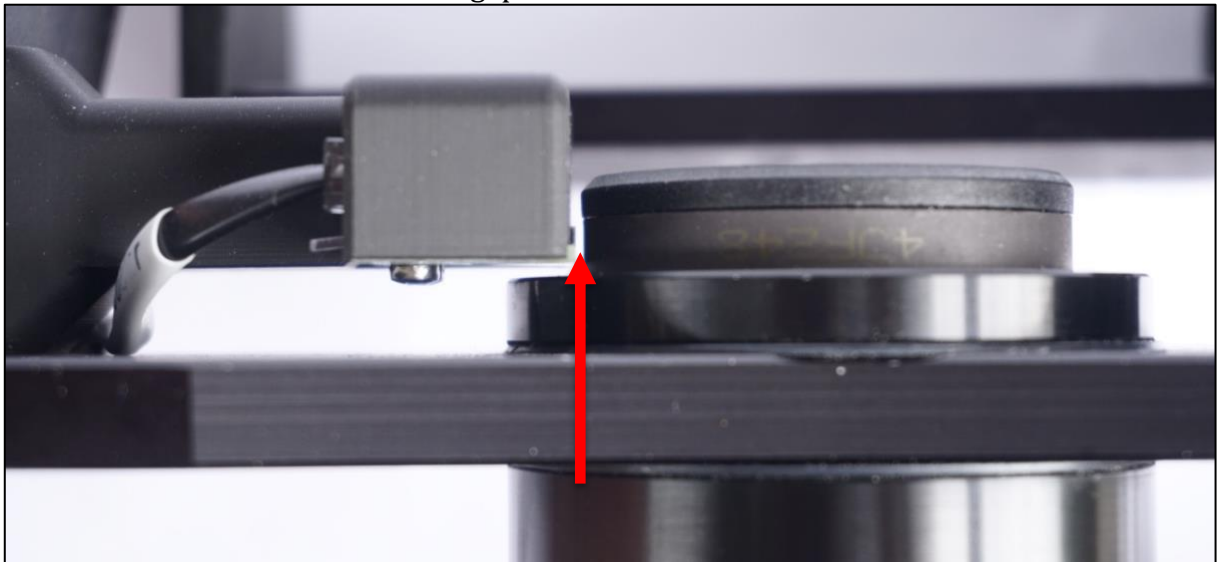


Tighten the screw:





Now you need to check the gap between the readhead and the magnetic ring's surface. As in case of the altitude encoder the gap should not exceed 0.8mm:

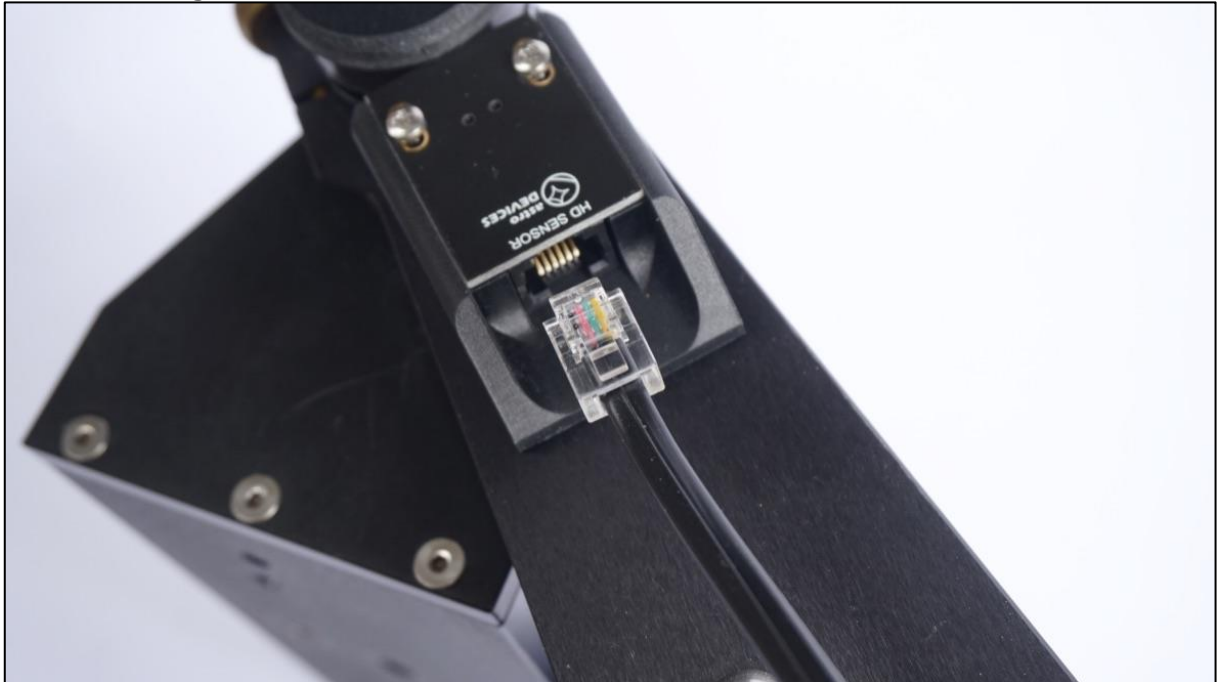


In case it needs to be adjusted you need to remove the readhead, loosen the screws holding the green PCB and move the PCB forward/backward to adjust the gap. Now feed the azimuth encoder cable lead under the readhead and insert the plug into the readhead with contacts facing up:





Now insert the altitude encoder lead plug into the altitude encoder readhead with contacts facing down:





DONE!

Now plug the encoder cable into your DSC, set the encoder steps to 204800 steps for the altitude, 311296 steps for the azimuth and make sure the signs are correct.

