

Explore Scientific Truss Dobsonian – 10" to 16" : Encoders Installation

Specifications:

Altitude Encoder resolution:

10" - **304000** steps per revolution

12" - **380608** steps per revolution

16" - **454600** steps per revolution

Azimuth Encoder resolution: **8192** steps per revolution

Current consumption: 20 mA – altitude encoder, 10 mA – azimuth encoder

Note: Please set the encoder steps to the values corresponding to the model of your telescope:



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

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

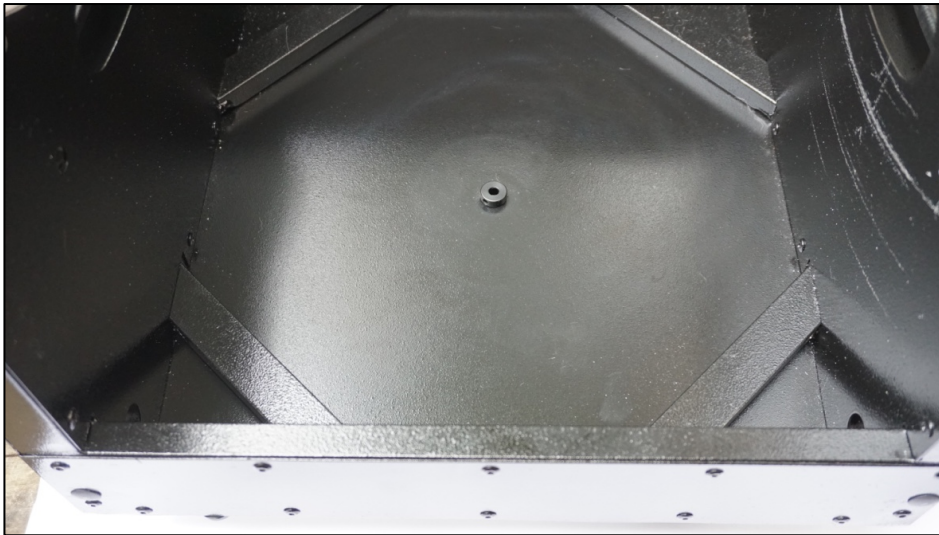


Azimuth encoder installation

You will need the following parts to install the azimuth encoder:



Please remove the mirror box from the rocker box:



Please locate the threaded hole in the pivot bolt:



You will need the set screw and the Allen key:



Put the set screw into the threaded hole and make a couple of turns but leave the Allen key in the set screw:

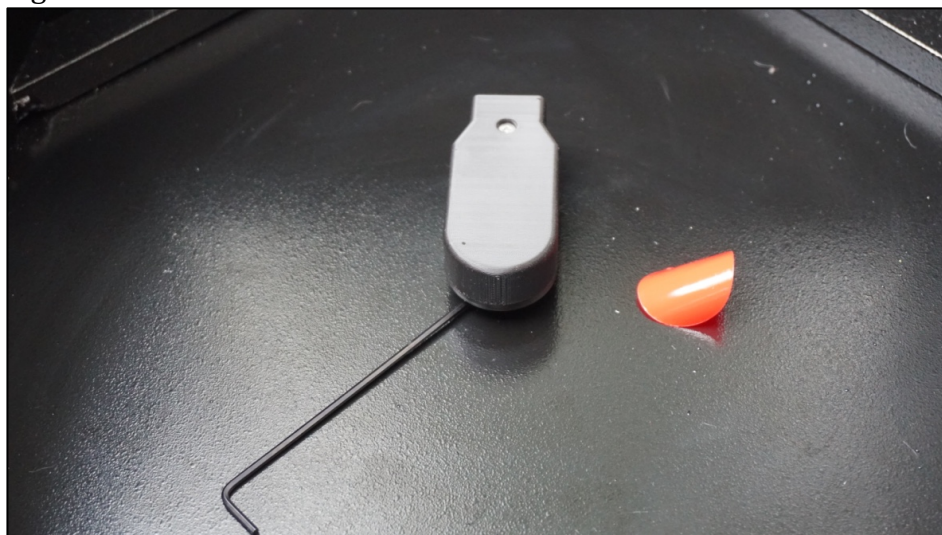


Clean the surface in the back with an alcohol wipe – where the encoder's foot will be glued. Remove the protective film from the encoder's foot:



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Tighten the set screw



The azimuth encoder is now installed:



Install the encoder cable:



Altitude encoder installation

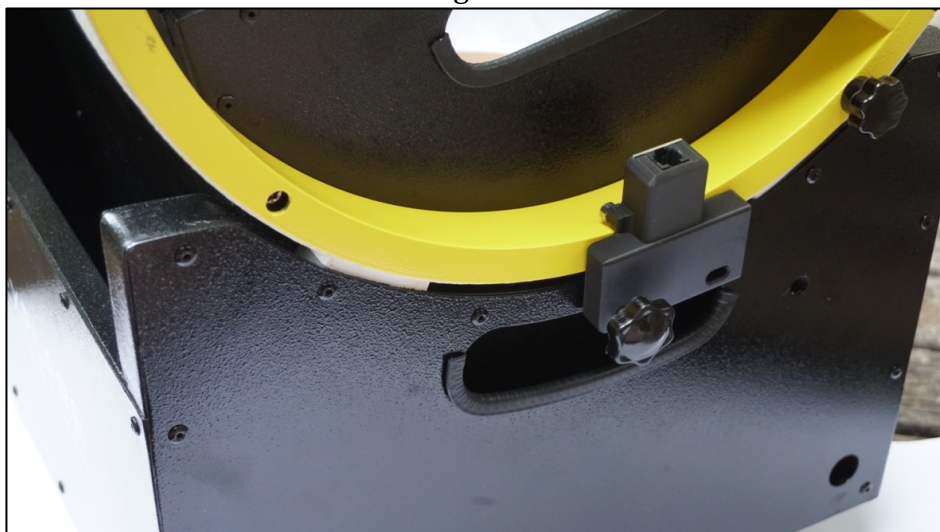
You will need the following parts to install the altitude encoder:



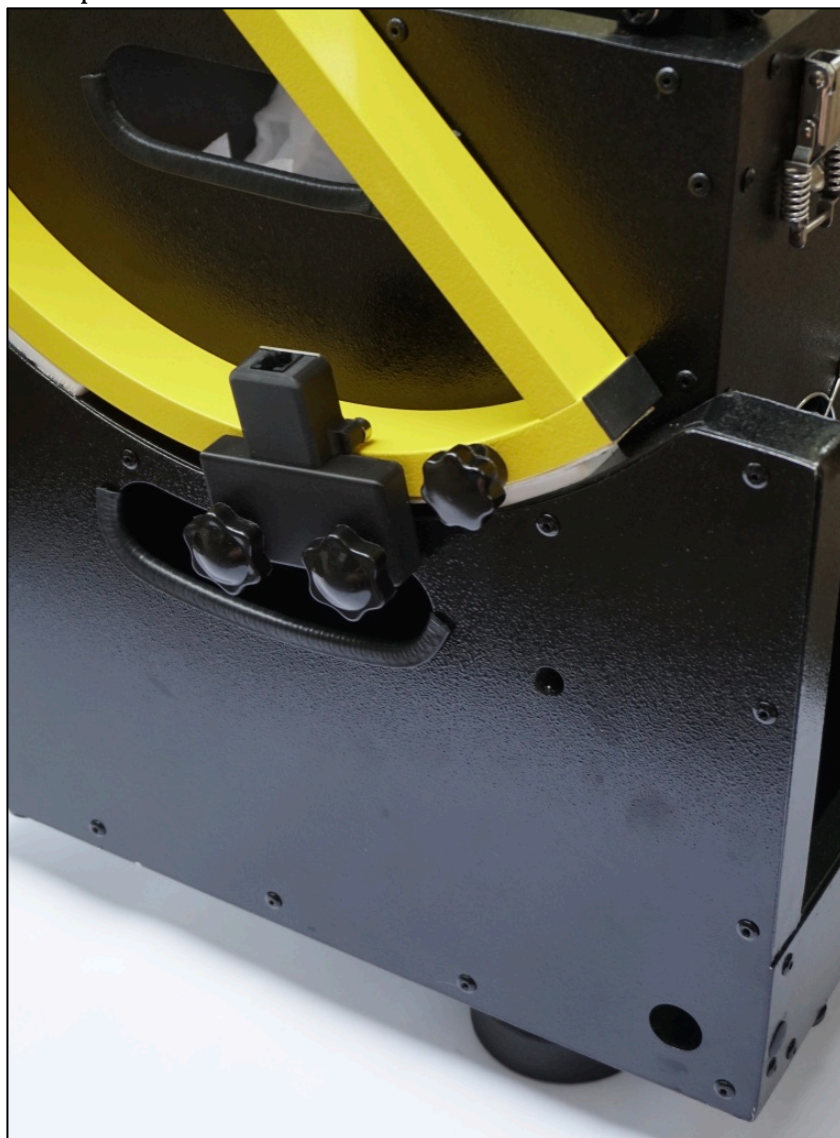
Put the mirror box into the rocker box and clean the internal surface of the altitude bearing (on the same side as where the focuser is) with the alcohol wipe:



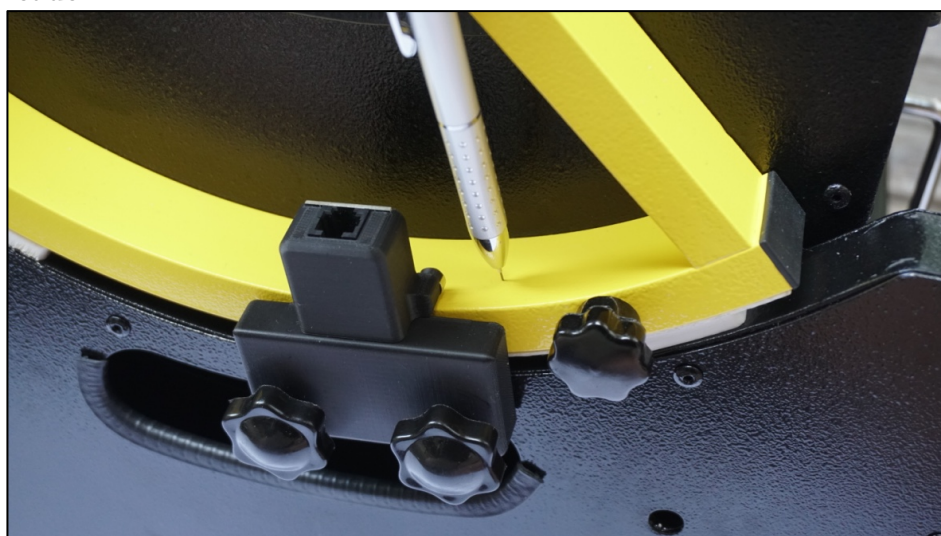
Install the encoder reader starting with the left hole:



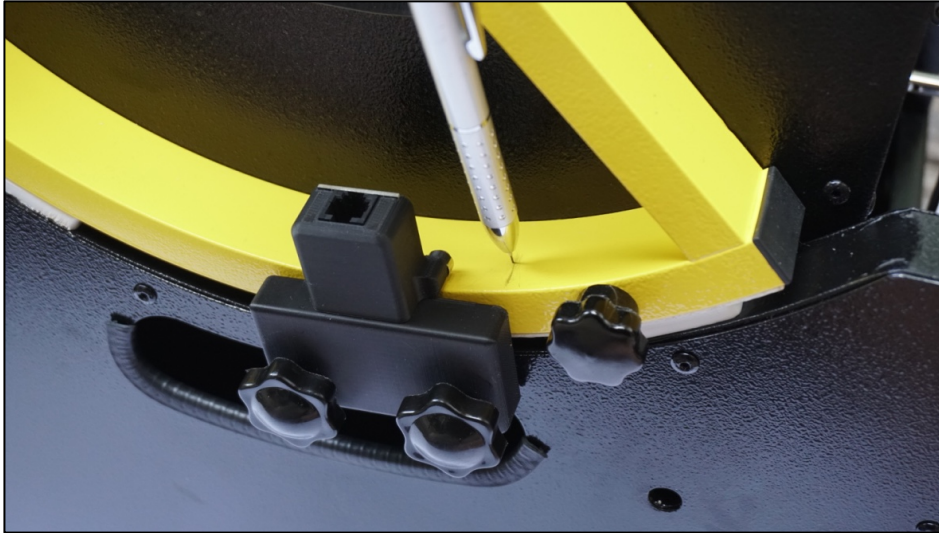
Then put the second knob in



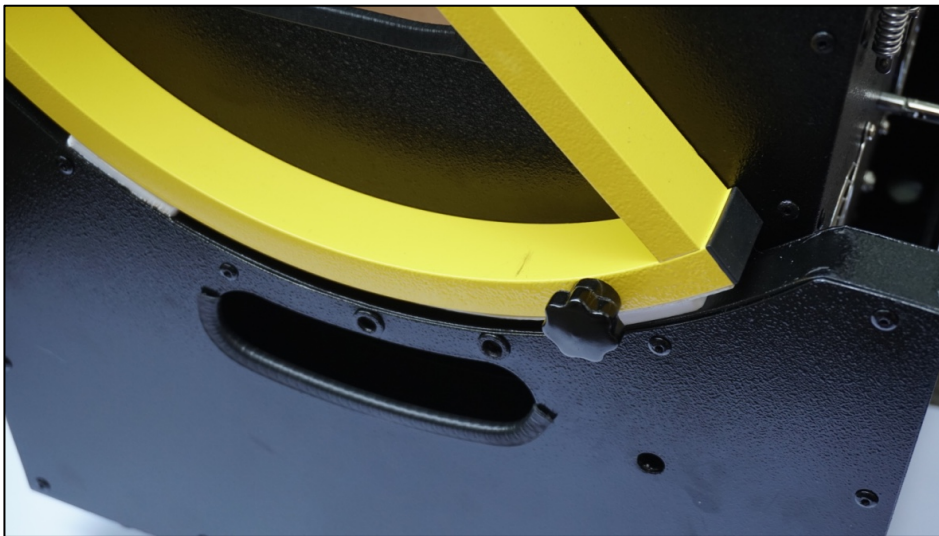
Position the telescope vertically. Now you need to use a pencil to mark the start of the magnetic tape – it should be approximately 10-15mm ($\sim 1/2$ ") from the right side of the reader:



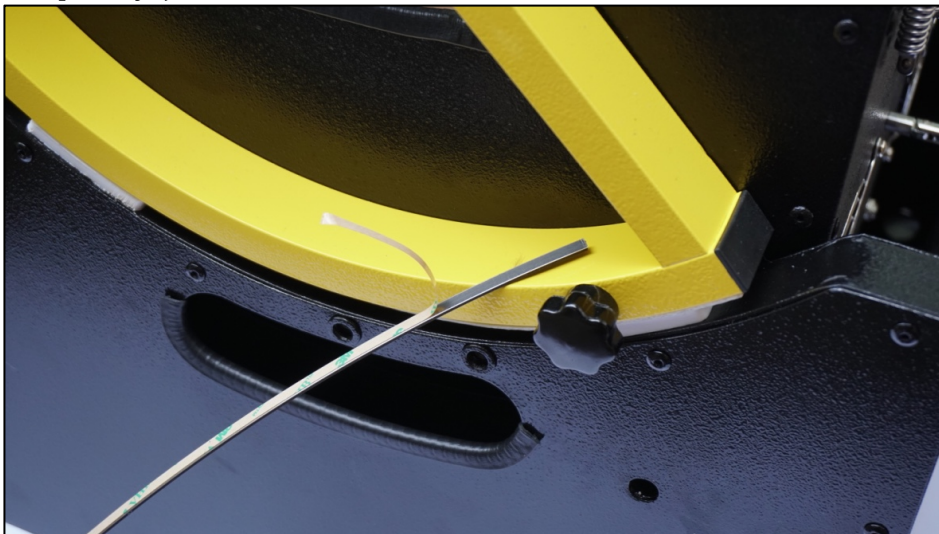
Draw a line with the pencil



Now remove the reader



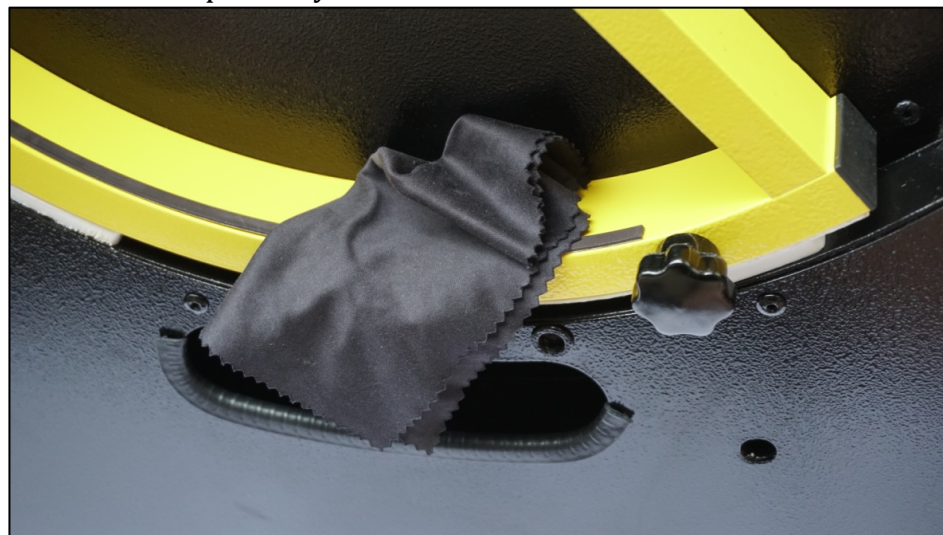
Remove the protective film from the back of the magnetic tape – do not remove it completely, just a few centimeters:



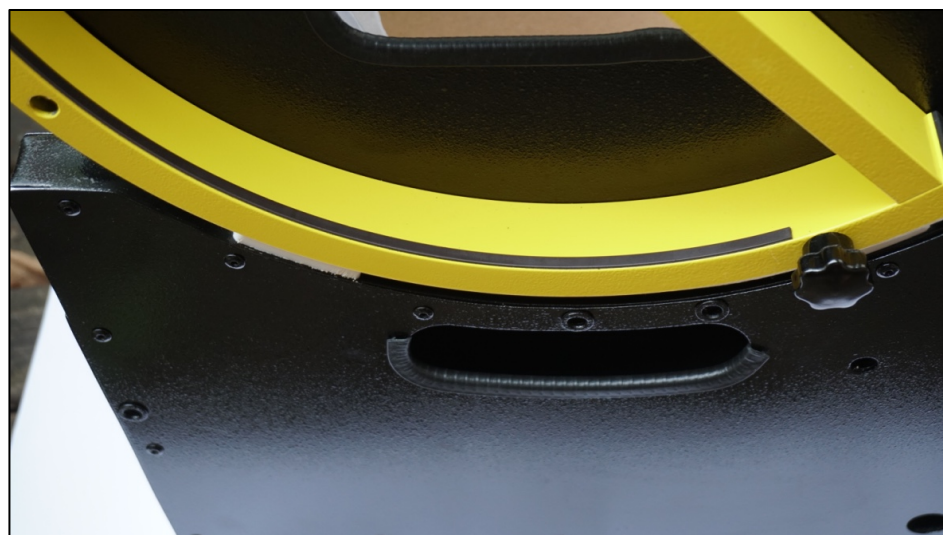
Start gluing the tape along the outer edge of the altitude bearing – make sure it goes precisely along the edge and.



Press on the tape firmly with a soft cloth:



Here is the final result



FINISHED!