Explore Scientific Twilight-II mount: Encoders Installation

Specifications:

Altitude Encoder resolution: **655360** steps per revolution Azimuth Encoder resolution: **311296** steps per revolution Current consumption: 20 mA – altitude encoder, 20 mA – azimuth encoder

Note: This encoder kit is compatible with the pier extension for the mount.



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:



Please remove the mount head from the tripod.





Azimuth encoder installation

<u>Installing the azimuth encoder ring on the mount without the pier extension.</u> You will need the following parts: large magnetic encoder ring, azimuth encoder ring adapter and the bottom part of the mount head



Put the encoder ring on the adapter ring as shown below:





Push it down all the way:



Now slide it over the bottom part of the mount head:



Look at the bottom and make sure the recess in the adapter ring is aligned in the recess for the fixing pin:





Now push the ring all the way down until its top surface is flush with the outer edge of the bottom part of the mount:



Now skip the next section of installing the azimuth encoder ring on the pier extension.

Installing the azimuth encoder ring on the mount with the pier extension.

You will need the following parts:





Slide the encoder ring over the pier extension as shown below:



You will need to push it down with a bit of force – you can use a piece of soft wood timber that is long enough to push on opposite sides of the ring (apply it on the top). You will need to push it down until the top of the ring is in line with the top surface of the pier extension:





Now you will need to install the altitude encoder ring. You will need the following parts:



Loosen four set screws holding one of the dove tail bars. It does not matter which one but you need to loosen all four set screws on that bar (two on each side):





Now remove the dove tail bar:



You will now need the altitude encoder reader:



Slide it over the body of the mount: Copyright © 2019, Astro Devices. All rights reserved.





Now you will need the azimuth encoder reader:



Slide it over the body of the mount align its bottom surface with the bottom surface of the mount and tighten the clamp:





Now thread two set screws (on the left) in:





You will now need the altitude encoder ring:



Slide it over the bard as shown:



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Unscrew the two set screws:



And install it back onto the shaft:



And tighten the set screws:





Now position the altitude encoder reader under the bar and slide the ring until the middle of the ring is aligned with the black small strip on the reader:



Tighten the set screws on the altitude encoder ring.







And tighten the altitude encoder reader clamp:





Now install the azimuth washer and put the mount head on bottm part of the mount of onto the pier extension:







FINISHED

