

## Explore Scientific FirstLight 10" Dobsonian modifications



All my modifications are passive, involve no permanent changes to the original "as shipped" telescope. That means, no holes drilled, or non-reversible changes.

**Azimuth and altitude scales, and bubble level.**

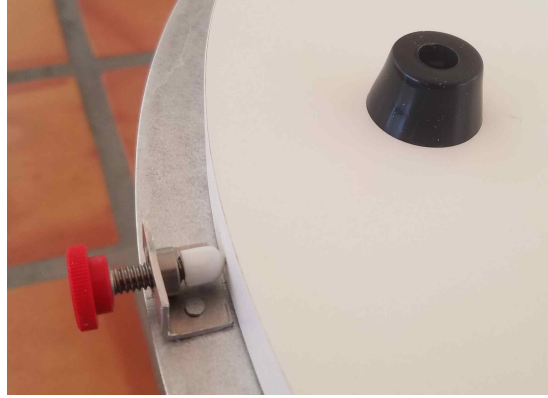


Bottom view

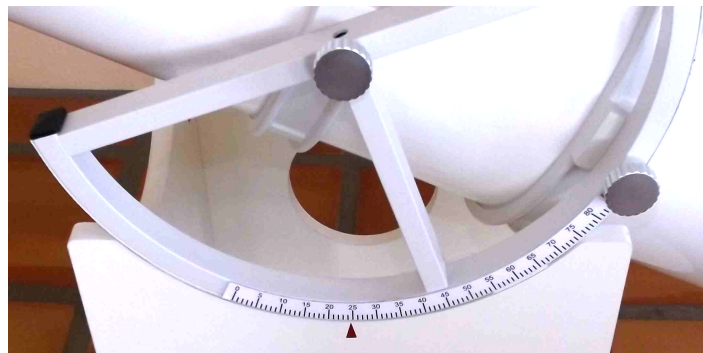


Top view

The azimuth ring was cut from .125" thk. aluminum. 20.15" I.D. x 23.15 O.D. I printed the scales in AutoCad, but described on the forums [here](#) is an alternate others have used. I laminated the scale and attached it with double sided tape.

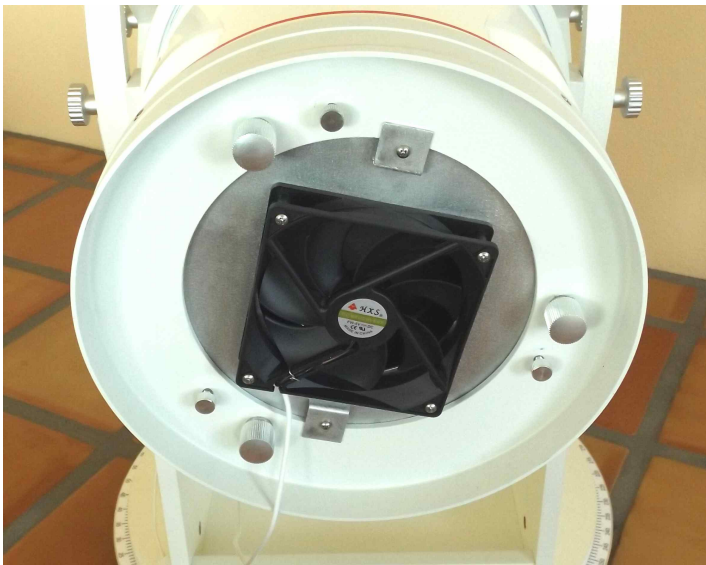


It is trapped by four small aluminum angles around the 55cm diameter base, but allowed to rotate and be locked in place by the red knob. The rotating ring is trapped between the gap of the base and rotating support for the rocker supports.



The 7.50"R x .625" altitude scale is printed on card stock, laminated and attached with double sided tape to one of the altitude rockers.

### Primary mirror 5v cooling fan





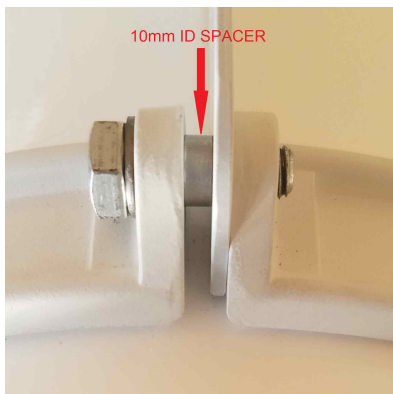
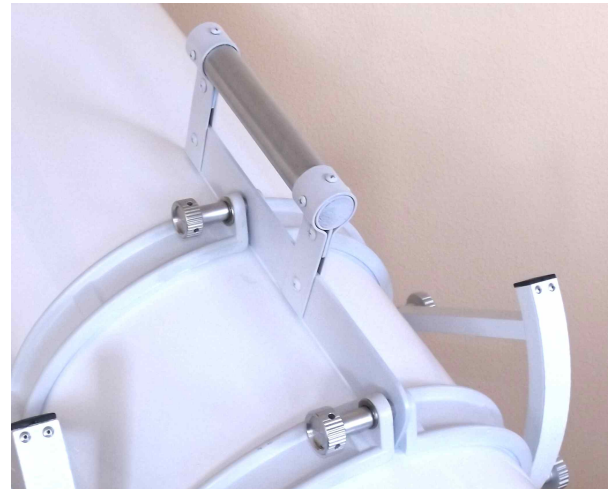
Inside view



Exterior view

I fitted a 120mm 5 volt muffin fan to the bottom housing holding the primary mirror. The housing is held to the mirror cell by the three collimating adjustment screws.

### OTA carrying handle at the center of gravity



Two 10mm I.D. spacer thicknesses must be selected to clamp the handle bracket and OTA simultaneously. Here I show two 10mm hex bolts, but the original clamp screws can be used.

Transportation felt lined cradle for the 36 lb. OTA can be used without removing the altitude rockers.



## Slewing knob



The slew knob was just made from a plastic knob from Ace Hardware and some aluminum bits attaching to the accessory shoe below the focuser.

## Shower cap style dust covers for the focuser and primary mirror end



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