76/300 pocket dobson

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VIEW IN BROWSER

updated 6. 2. 2026 | published 6. 2. 2026

Summary

A real pocket scope with a 76/300 parabolic mirror, good balance as-is.

Learning > Physics & Astronomy

Files are now alright :) ! Enjoy your build.

Everything is M3 with 4.5mm holes for heat-set inserts

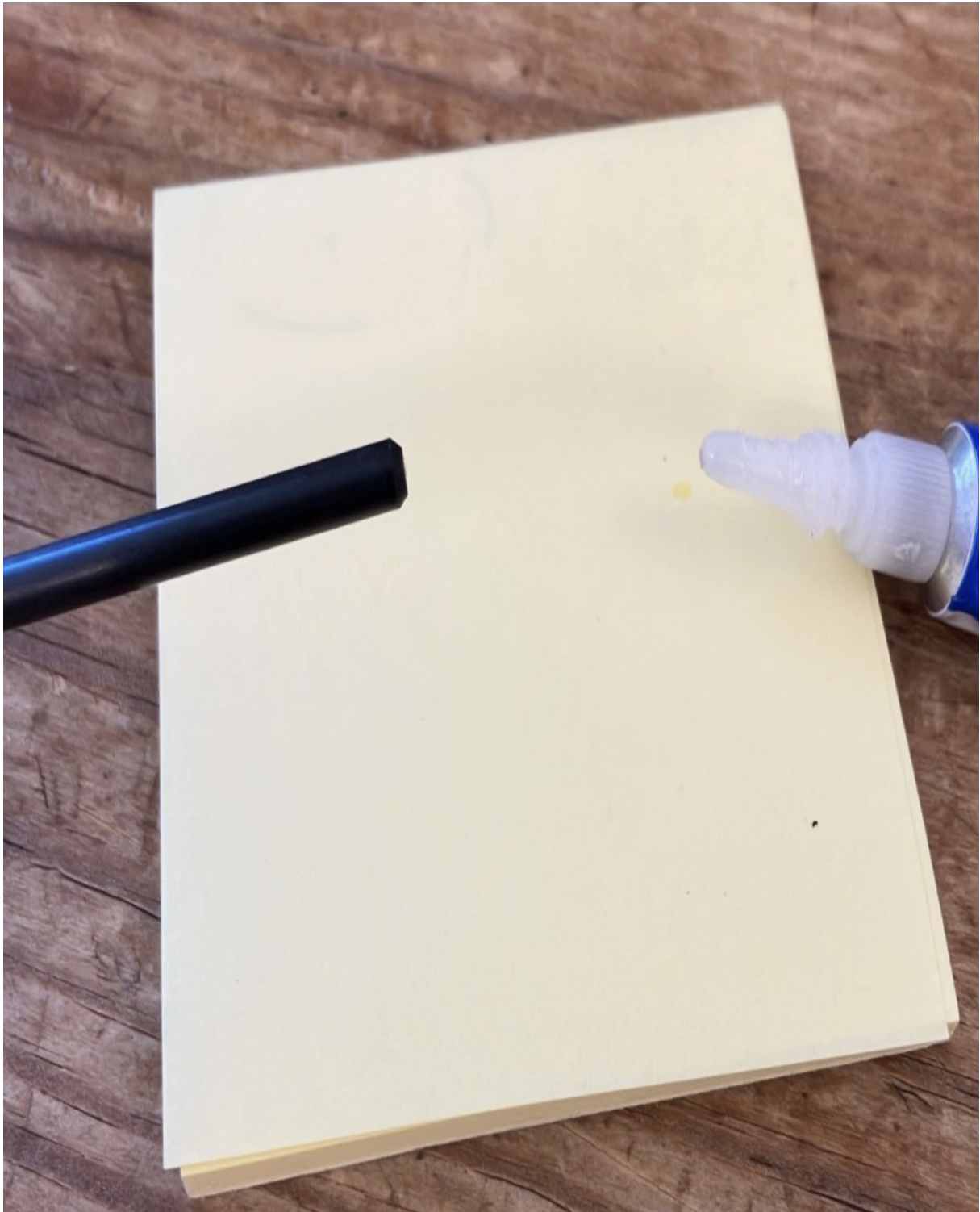Print the primary cage with at least 50% infill for weight

Use little strips of teflon for alt and az

Use 4mm carbon rods - aluminum rods will **not** work as they will deform

Lubricate focuser with candle wax

A few notes :
- My rods were cut to 25.5cm, YMMV relatively to your mirror though. It is important to chamfer them (see this pic) :

The focuser and eyepiece holder should be printed with a fine resolution, I've found them to be great at 0.12mm, but too tight when using a "strength" profile.

Be careful about balance, it is thought for a really lightweight eyepiece. I've found the SVbony 15mm SWA to be an okay enough choice to handle the f/4 mirror while being lightweight.
- For collimation I used M3 nylon screws, top and bottom.

For the secondary holder, I expect three 4x4 cylindrical neodymium magnets, and a steel washer cut in half on the other side. I glued my washer with UV resin, there are conical holes allowing the light to pass through the part to cure the resin for this purpose.

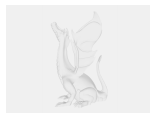M3 x 4.5 outer diameter heat-set inserts everywhere
- To mount it, install the rods tensioners then the upper cage, it is easier in this order.
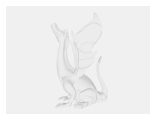
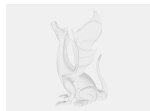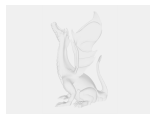**Edit : 25.4mm eyepieces version now available !**

Model files

altitude-bearing.step

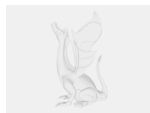**rocker.step**

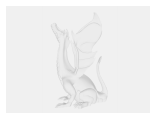**upper-cage.step**
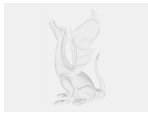
tube-po.step

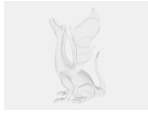**clip1.step**

bas-rocker.step
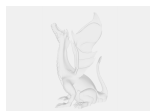
spacer.step

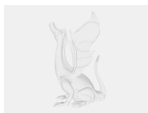**secondary-support-half-1.step**

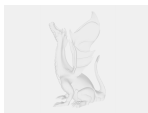secondary-support-half2.step

primary-cage.step

m3_knurled_knob.step
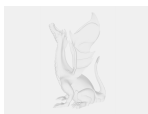
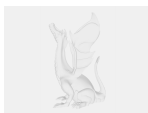eyepiece-holder-v2.step

cross-brace.step
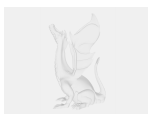
upper_cage_old_eyepieces.step

🗋 For 25.4mm eyepieces

old_eyepiece_holder.step

🗋 For 25.4mm eyepieces

old_eyepiece_tube_244wings_retol_3.step

mirror_cover.step

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