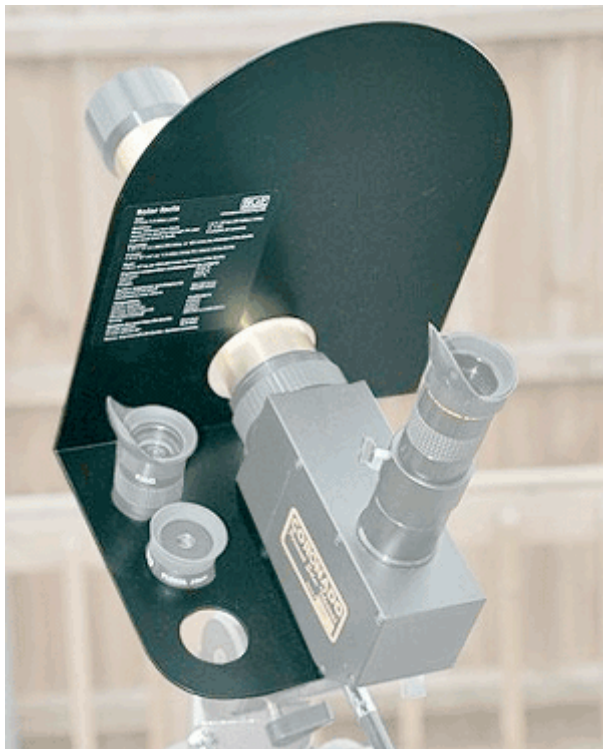


# Homebrew sun shield for the Coronado PST™

Matthias Bopp, September 19<sup>th</sup> 2010

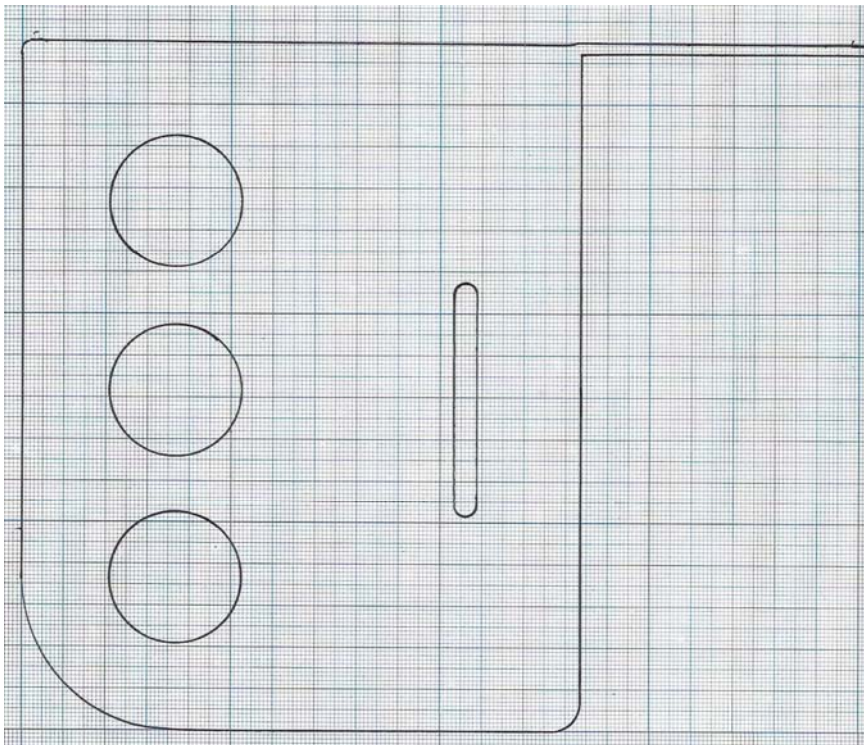
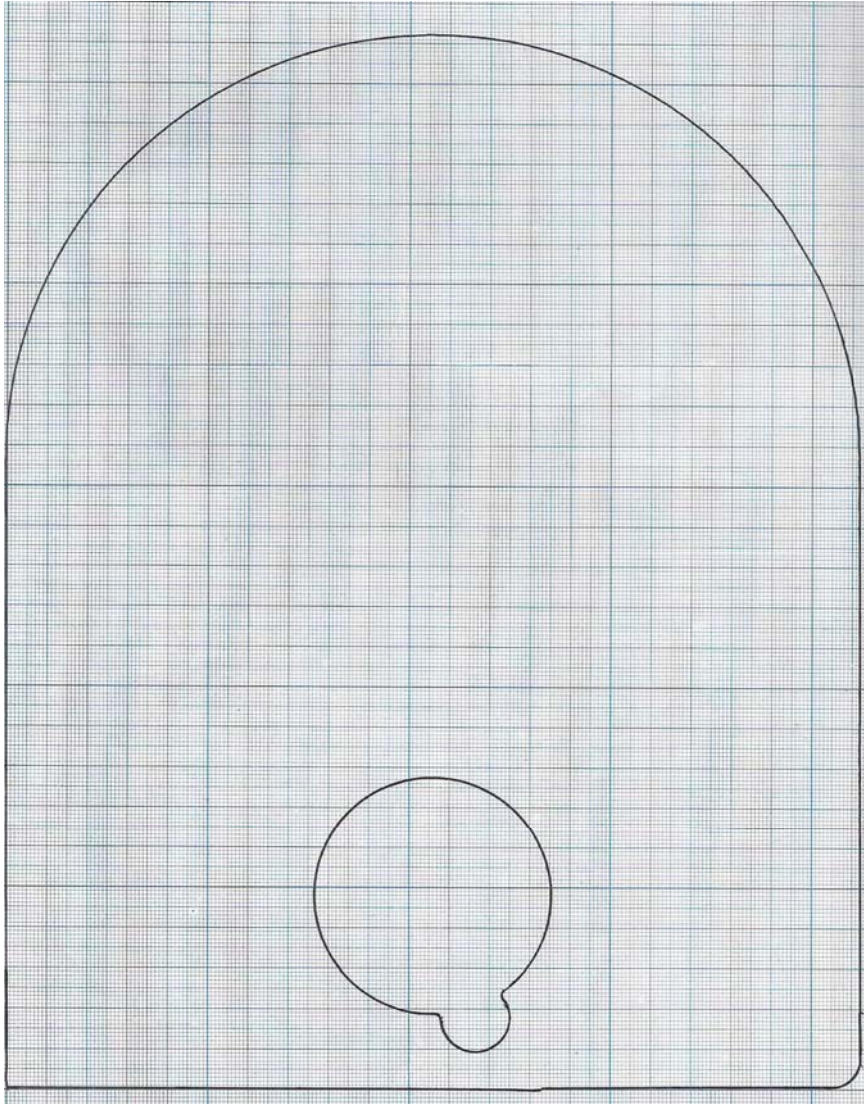
Hello,

I consider a sun shield for the Coronado PST™ solar scope as a as very useful accessory. It allows your eyes to adapt to the picture of the sun through the h-alpha telescope without a complete cover over the scope and the observer. I bought the Solar-Mate™ sunshield from Astro-Engineering and think it is a very well made solution. Here are pictures of the device made from metal with a very nice matt black finish.



When I adapted my PST™ solar scope to my Celestron NexStar™ N5i mount using Ray's brackets I had to recognize that the Solar-Mate™ sun shield does not fit. I needed a design which was mirror-inverted and thus I decided to build one myself. This also gave me the opportunity to change the design slightly to optimize the relief to the NexStar™ N5i mount.

I started with the Solar-Mate™ design and you will find the layout below. It is drawn with a mm-scale in the back thus you should be able to enlarge it back to scale if needed. The first drawing is the vertical section of the shield (viewed from back) and the second drawing is the horizontal section of the shield (viewed from top).which gets attached to the PST™ body.



I built my sun shield from wood. I started with the vertical section unmodified and added the horizontal section mirror-inverted. You can see in the picture below the Solar-Mate™ (on the left) and the homebrew version (on the right) side by side.



Next I attached the sunshield to the PST™ and to the NexStar™ N5i mount and optimized the relief of the vertical section. Finally I painted the homebrew version with matt black spray varnish. Finally you can see below some pictures of the finished setup.





I am always happy to receive feedback, comments or questions. Please send them to the Email address below.

Best regards

Matthias

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