



Bahtinov Telescope Focusing Mask

User's Manual

Product #608020 for 8", #608021 for 10", #608022 for 12"



WARNING! Never point a telescope at the Sun without a proper solar filter! Do not use this Bahtinov Mask to look at the Sun! Permanent damage to your eye and equipment will result. Block all non-filtered optical components such as viewfinders to prevent concentrated sunlight from passing through. Never allow unattended children to operate or be near a telescope during the day.



Congratulations on your purchase of the Bahtinov Telescope Focusing Mask. This accessory allows you to easily focus your telescope, even when the seeing conditions are turbulent. Please read through these instructions before use.

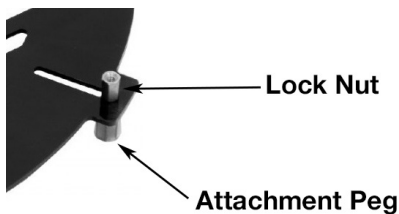


Figure 1. Attachment hardware



Figure 2. Bahtinov Mask installed

Installation

Thread each of the included Lock Nuts and Attachment Pegs onto each of the 3 slotted holes on the mask (Figure 1) so that the Attachment Pegs all face the same side of the mask. On ACF and Schmidt-Cassegrain telescopes, place the mask over the front cell of the telescope with the attachment Pegs facing toward the corrector, and the Lock Nuts facing away from the telescope. Slightly loosen the Lock Nuts and position the Attachment Pegs as needed so that all three Attachment Pegs make contact with the inside of the front cell (Figure 2). Meade's Bahtinov Masks do not require mounting to or aligning with the secondary mirror, nor do they require precise centering over the corrector to work properly. This method helps prevent any accidental contact with the corrector glass.

Focusing

Focusing will only take a few seconds with the Bahtinov Mask. With the mask installed:

1. Center a moderately bright star in the telescope.
2. Using your camera (or eyepiece), image/observe the star. Cameras with a live focus or video mode are useful, but taking continuous short exposures will also work for this purpose.



Figure 3. Focused diffraction pattern

3. Focus the telescope until you see a symmetrical diffraction pattern as shown in Figure 3. **Don't forget to remove the mask once you have reached focus!**

Use of Optional L-brackets for model #608022

#608022 was designed to fit 12" ACF and Schmidt-Cassegrain telescopes, but it also includes 3 L-brackets which may be used to fit different telescopes for a slightly wider range of apertures. Unthread the Locking Nuts from the Attachment Pegs, then place the L-bracket mounting hole between the Attachment Pegs and Bahtinov Mask and reattach the Locking Nuts (Figure 4). Adjust the distancing as needed so that the L-brackets fit on the outside diameter of the telescope (Figure 5).



Figure 4. Installing L-bracket

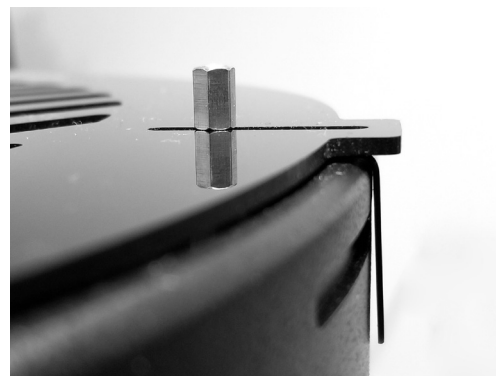


Figure 5. Properly installed L-bracket

Meade Limited Warranty

Every Meade accessory is warranted by Meade Instruments Corp ("Meade") to be free of defects in materials and workmanship for a period of ONE YEAR from the date of original purchase in the U.S.A. Meade will repair or replace a product, or part thereof, found by Meade to be defective, provided the defective part is returned to Meade, freight-prepaid, with proof of purchase. This warranty applies to the original purchaser only and is non-transferable. Meade products purchased outside North America are not included in this warranty, but are covered under separate warranties issued by Meade international distributors. RGA Number Required: Prior to the return of any product or part, a Return Goods Authorization (RGA) number must be obtained from Meade by writing, or by calling (800) 626-3233. Each returned part or product must include a written statement detailing the nature of the claimed defect, as well as the owner's name, address, and phone number. This warranty is not valid in cases where the product has been abused or mishandled, where unauthorized repairs have been attempted or performed, or where depreciation of the product is due to normal wear-and-tear. Meade specifically disclaims special, indirect, or consequential damages or lost profit which may result from a breach of this warranty. Any implied warranties which cannot be disclaimed are hereby limited to a term of one year from the date of original retail purchase. This warranty gives you specific rights. You may have other rights which vary from state to state. Meade reserves the right to change product specifications or to discontinue products without notice. This warranty supersedes all previous Meade product warranties.

Meade Instruments Corp.
27 Hubble
Irvine, CA 92618
800-626-3233 ■ www.meade.com

20190815 REV 0