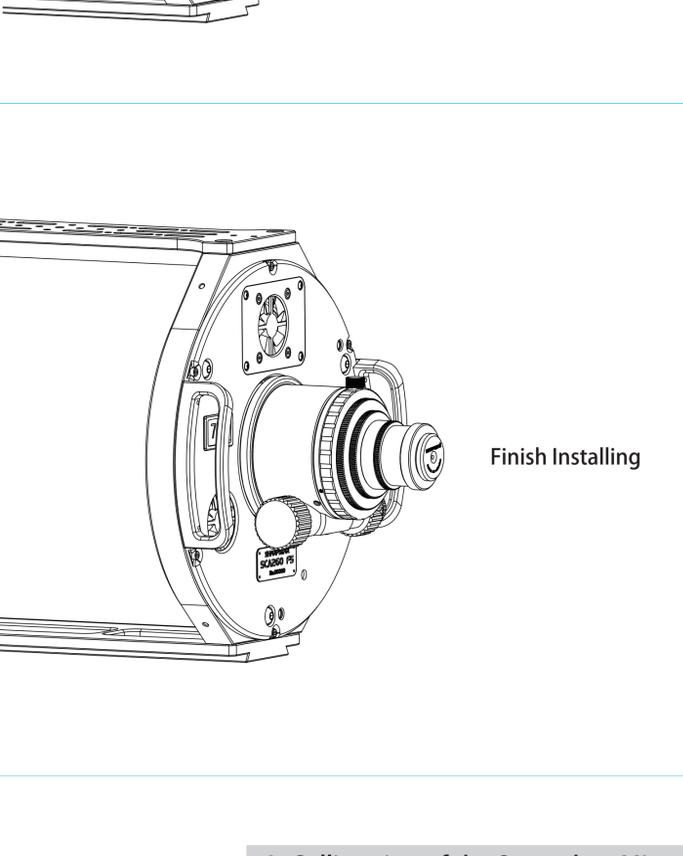


# SHARPSTAR

## Instruction Manual for Sharpstar SCA260F5 Collimation

Thank you for choosing Sharpstar astrographs  
Please carefully read the instructions for adjustment before usage  
(Tool you need to prepare: M48×0.75 to 1.25" adapter)

### 1. Install the Collimation Eyepiece



### 2. Collimation of the Secondary Mirror

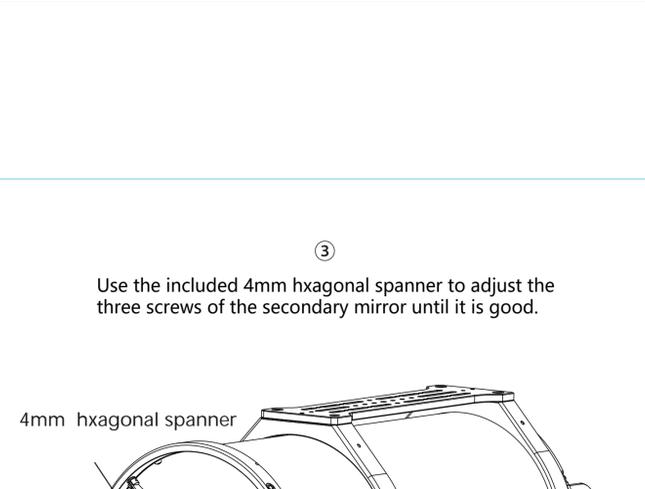
①

Observe through the eyepiece, and you will see as follows: (If different, go ③.)



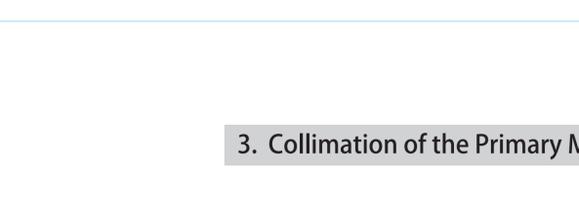
②

If it is different from ①, there will be patterns as follows. It means an adjustment is needed.



③

Use the included 4mm hexagonal spanner to adjust the three screws of the secondary mirror until it is good.



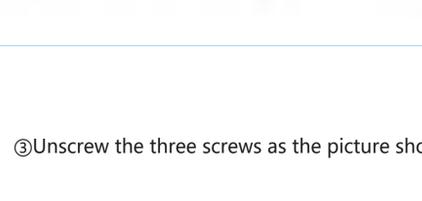
(Use the long side of the hexagonal spanner to adjust. Do not over-lock the screws, or it will cause irreversible damage to the secondary mirror.)

### 3. Collimation of the Primary Mirror

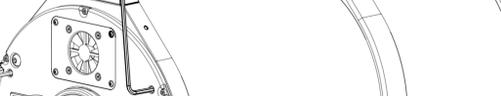
Preparation:

1. Dismantle the M48×0.75 to 1.25" adapter and the collimation eyepiece
2. Install an eyepiece or a camera and get it focused.
3. Mount the astrograph onto an equatorial or longitudinal mount, and align the astrograph to a bright star or an artificial star point.

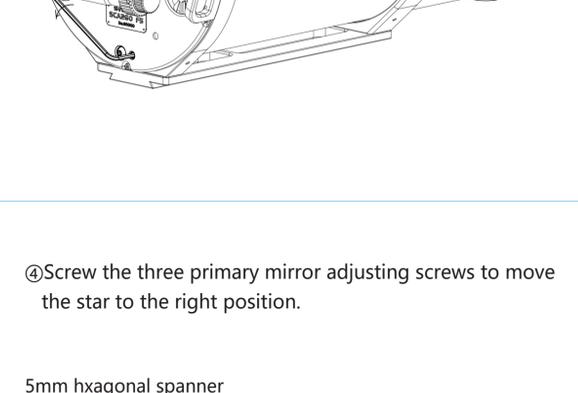
① Rotate the fine adjustment handwheel and compare the star with the follow patterns.



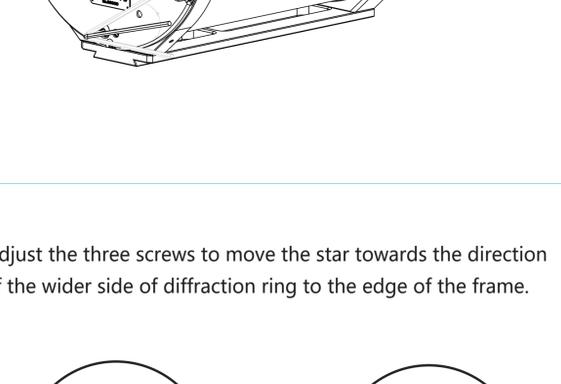
② If it looks like these patterns, the primary mirror needs adjustment.



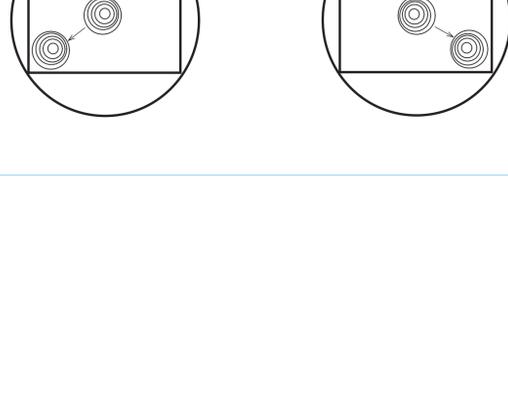
③ Unscrew the three screws as the picture shows



④ Screw the three primary mirror adjusting screws to move the star to the right position.



⑤ Adjust the three screws to move the star towards the direction of the wider side of diffraction ring to the edge of the frame.



⑥ Adjust the equatorial or longitudinal mount to move the star to the center of the frame and see whether the star looks the same as that in Step ①.

⑦ If it still differs from Step ①, repeat Step ⑤&⑥ until finished.

⑧ Lock the three screws in Step ③ and finish collimation.