

FocusStar motor bracket mounting instructions for Takahashi 180ED Astrograph

(before installing the bracket please read and be sure you understand the instructions below, if you have any questions contact CercisAstro customer support, improper installation can damage the FocusStar bracket, motor and/or your telescope focuser)

The motor/bracket assembly consists of: The black delrin main bracket body with double sided adhesive tape pre-installed on the rounded inner face; the aluminum securing bracket; the motor loosely bolted to the main bracket; the securing strap looping around the main bracket.

Use the following instructions to mount the bracket to the focuser, we strongly recommend you do a dry fit installation before installing with the adhesive tape exposed to be sure you are comfortable with how the bracket is positioned on the focuser. Once attached the adhesive tape is difficult to remove without destroying it.

1. Remove the wide screw from the center cover of the focuser shaft. The black cover will be loose after removing the screw. If you do not have the appropriate tool to remove the screw use the two sides of a paper clip fashioned to fit the screw. Save the wide screw.
2. Remove the left hand side focus shaft knob. Save the knob.
3. Peel off the double sided adhesive tape protective film. With the motor loosely fitting on the bracket, slide the motor shaft coupling onto the focuser shaft until the main bracket is positioned against the focuser body. ----- The bracket curved face should wrap around the focuser body with the bracket fitting snugly and square to the focuser body in the up/down and side to side directions. The flat part of the bracket which holds the aluminum securing bracket must be parallel to the focuser knob shaft. There should be about 1/8 inch (3mm) gap between the bottom of the main bracket and the top of the focuser rotator locking ring. ----- Firmly press the curved face of the main bracket to the focuser body to ensure good contact and adhesion.
4. With the black shaft cover in place, place the aluminum securing bracket over the center cover and using the supplied M4-16 screw secure the bracket to the same hole which previously held the wide screw. Do not over tighten the M4 screw. Then lock down the securing bracket by tightening the button head screw on the main bracket.
5. With the supplied hex key tighten the motor onto the main bracket using the two motor housing screws.
6. Lock the motor shaft coupling to the focuser knob shaft by the 2 screws on the coupling using the supplied hex key. You will need to rotate the motor ½ turn using the FocusStar controller to access the second screw.
7. Loop the securing strap around the focuser body. Place the strap into the strap groove on the main bracket running it under the locking washer/screw. While holding the strap tightly around the focuser body lock it in place using the button head locking screw with the supplied hex key. Cut off the excess strap with scissors.

Allow 24-48hrs at room temperature for the adhesive tape to reach maximum strength before using the motor.