EAF-ASKARFMA230 INSTALLATION INSTRUCTIONS

Installation of the EAF-AskarFMA230 bracket is straightforward and requires only a few simple steps.
Tools needed (not provided): 3mm hex key, 1.5mm hex key, Philips screwdriver

STEP 1 – Prepare the Telescope

- Position the scope rings so they are 40mm apart on center.
- With the Askar Photographic Spacer installed, position the forward scope ring so that the rear edge of the ring is flush with the back edge of the Photographic Spacer. See below.
- From the zero position, rotate the focuser until it is approximately 2/3 of the way "out".

STEP 2 – Install the Focus Gear

- If necessary, loosen the clamping screw with a Philips screwdriver.
- Position the Focus Gear so that the rear edge is flush with the back edge of the knurled focus ring on the focuser. See below. Note: remove the tiny thumb screw prior to installing the Focus Gear.
- Tighten the clamping screw. There should be little to no gap in the seam.
- Place the belt around the Focus Gear.

STEP 3 – Prepare the EAF

- Push the pulley onto the EAF pinion shaft. Note there is a "flat" on the pulley that matches the "flat" on the EAF pinion shaft.
- Using a 1.5mm hex driver, tighten the set screws until they contact the pinion shaft and turn 1/8 of a turn more. Do not overtighten the set screws.
- Slide the 4mm x 30mm Pin in the other end of the pulley.
- Using a 1.5mm hex driver, tighten the set screws until they contact the pin and turn 1/8 of a turn more. Do not overtighten the set screws.

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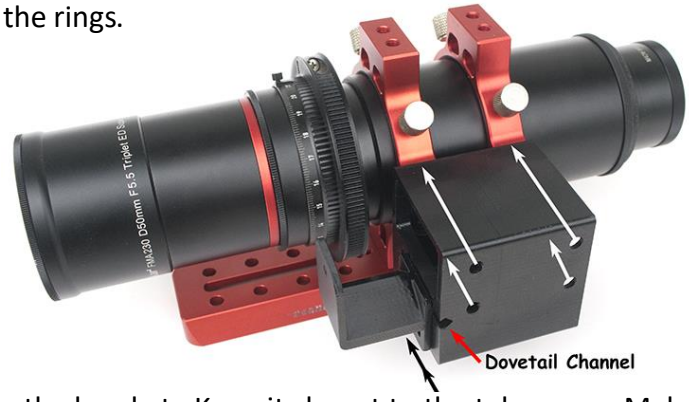
STEP 4 – Slide the Pulley Support onto the Bracket. There is a dovetail channel for the Pulley Support to slide into and hold it loosely on the Bracket.

STEP 5 – With a 3mm hex driver, attach the bracket to the scope rings using (4) M5x8mm button head screws. Note: the Bracket can be mounted on either side of the rings.



STEP 6 – Slide the EAF into the bracket. Keep it closest to the telescope. <u>Make sure to slip the belt around the pulley as you are sliding the EAF into the bracket.</u> As the EAF approaches the stop point, the Pin will slip into the small hole in the Pulley Support.

STEP 7 – Using a Philips screwdriver, loosely fasten the EAF to the bracket with (2) M4x16mm pan head screws. Do not fully tighten the screws. The EAF and Pulley Support still need to slide away from the telescope.

STEP 8 – Position the belt so it is in the center of the Pulley. Using one finger on the base of the Pully and one finger on the rear of the EAF, slide the EAF and Pulley away from the scope in order to tighten the belt. The Pulley Support will slide with the EAF. While maintaining pressure on the base of the Pulley and the rear of the EAF, fully tighten the M4x16mm pan head screws. The belt should be tight but not rigid. While not critical, try to position the Pulley so it is parallel to the Pulley Support.

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USAGE CONSIDERATIONS

- The EAF will be able to turn approximately 39,000 steps over the full focuser travel. In the EAF driver settings, set the max travel to 39,000 steps.
- With the focuser 2/3 of the way “out”, set the EAF position to 28,000 steps. Note that you may need to “Zero” the focuser first by racking in the focuser/EAF all the way “in”, set zero, and then rack out to 28,000 steps.

Please inform of any additions or corrections to these directions by sending an email to buckeyestargazer@gmail.com