

## GEM-LUNT-1.25RP INSTALLATION INSTRUCTIONS

Installation of the GEM-Lunt-1.25RP is straightforward and requires only a few simple steps.

Tools needed: 2mm hex key, 2.5mm hex key, 3mm hex key (not included).

1. The GEM-Lunt-1.25RP bracket can be mounted on either the Lunt single speed or dual speed 1.25" focuser.
2. **Single speed focuser** – the bracket can be mounted on either side. Using the 2mm hex key, remove the focus knob on one side.  
**Dual speed focuser** – the bracket must be mounted on the single coarse speed side of the focuser. Using the 2mm hex key, remove the single coarse focus knob.
3. Orient the focuser so that the round pinion housing is facing up. Keeping one finger on the round pinion housing so it does not come off, use the 2.5mm hex key to remove the two M3x8mm socket head screws holding the housing onto the focuser body. Place the bracket onto the round pinion housing and secure with the included M3x14mm hex head screws. **IMPORTANT: as you tighten the screws, apply even pressure to both sides as you go.**
4. Slide the coupler onto the steel focuser pinion shaft. Match the flat on the coupler with the flat on the pinion shaft and secure with two set screws using the 2mm hex key. Do not overtighten the screws.
5. Slide the Gemini motor pinion into the coupler. Note that there is a flat on the coupler hole that matches the flat on the Gemini pinion. Once the Gemini pinion is inside the coupler, rotate the Gemini until the set screws in the coupler are visible. Using the 2mm hex key, secure the coupler to the Gemini pinion with set screws. Do not overtighten the screws.
6. Attach the Gemini to the bracket using the ZWO supplied M4 screws with the 3mm hex key.

NOTE: The Gemini motor moves approximately 4000 steps with the Lunt 1.25" focuser (0-4000).

Please inform of any additions or corrections to these directions by sending an email to [buckeyestargazer@gmail.com](mailto:buckeyestargazer@gmail.com)