

## ASTRO-PHYSICS

### INSTALLING FEATHER TOUCH FOCUSER UPGRADE – 2.7", TRAVELER AND 4" FOCUSERS

The photos below show the Traveler Focuser with the 27FTMU upgrade (also used for the 2.7" focuser). The upgrade for the 4" Focuser is essentially the same, however the focuser and 4FTMU parts look somewhat different. The screws, springs and adjustments are the same for all focusers. The appropriate hex keys are provided with each focuser.



Traveler focuser with the standard pinion block installed and new Feather Touch Micro assembly (27FTMU) are shown separately. The only difference between the Traveler and 2.7" focusers is the thread that attaches it to the telescope. All other parts are the same. The 4" Focuser is similar



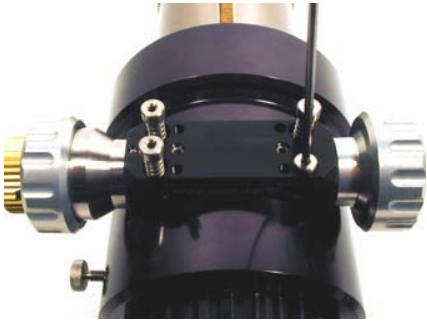
With a 3/32" hex wrench, remove the 4 screws holding the standard pinion block and knob assembly from the focuser body.



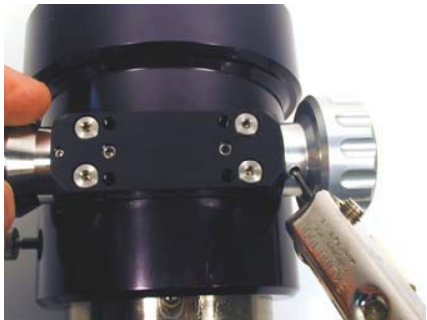
If the pinion block shoulder screws have spacers under the springs (some do, some don't), remove the springs and spacers. Keep the orientation of the springs the same as they were (do not turn them end for end).



Place the springs back on the shoulder screws without the spacers. The spacers will not be used.



Place the new Feather Touch block onto the focuser body as shown for right hand operation, or reverse it for left handed operation. Tighten down the 4 shoulder bolts with the springs using a 3/32" hex key.



Loosen the knob opposite the reduction gear with a 5/64" (Traveler and 2.7" Focuser) or 1/16" (4" Focuser) hex key and remove it from the pinion.



Gently tighten the two small setscrews, with a 1/16" hex key so that they just touch the mating focuser body. Do not over tighten these screws. Re-attach the knob, making sure that the washer is still under the knob on the pinion shaft.



Final assembly as it appears on the Astro-Physics 2.7 inch focuser.

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