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## FTF 1575 Dual Speed Pinion Assembly Installation Instructions

For ease of installation, the focuser should be removed from your telescope via the three setscrews on the adapter using the supplied 1/16 hex key.

1. Remove the existing Single Speed Pinion Assembly by removing the two socket cap screws located in the middle of the pinion using the supplied 3/32 hex key.
2. Lift the drawtube from the focuser housing and fully screw in the pinion screws you just removed (without pinion). Remove the screws again and wipe away any loose debris from the back of the screw holes. This will remove the excess thread locker and prevent it from falling between the pinion shaft and wear plate during installation. Do not remove residual thread locker from the screws themselves, as it will still hold them in place.
3. Place the drawtube back into the focuser housing, starting with the top screw; attach your new Dual Speed Pinion Assembly. Alternate between the top and bottom screws by turning each screw  $\frac{1}{4}$  of the way in until both screws are tight. Note: The pinion assembly is internally symmetrical and will work with the fine focus on either the right or the left side.
4. Test the focuser by slowly and gently “focusing” in and out with the coarse focus knob while feeling for any stiff points or binds. If binding is present, use the supplied .050 hex key to loosen the set screw nearest to the stainless steel reduction assembly. Rotate the reduction assembly within the pinion housing  $\frac{1}{8}$  of a revolution by gripping both the coarse and fine focus knobs and turning them and retighten the reduction assembly set screw. Note: Do not over tighten this screw; doing so will result in damage to the reduction assembly. Check again for binding and repeat this process if necessary.

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