

Installation Instructions for the Feather Touch Digital Motorized Focuser
WARNING WARNING WARNING : PLEASE READ THIS CAREFULLY.

Tools Required:
.050 inch Allen Wrench (Supplied)
1/16 inch Allen Wrench (Supplied)
7/64 inch Allen Wrench (Supplied)
Focuser Gear (Supplied)

WARNING: IT IS EXTREMELY IMPORTANT TO DO THIS IN A CLEAN ENCLOSED AREA BECAUSE YOU WILL BE EXPOSING THE HIGH PRECISION REDUCTION ASSEMBLY. IF ANY DIRT OR DEBRIS GETS INTO THIS ASSEMBLY IT WILL CAUSE DAMAGE OR IT MAY COMPROMISE THE FUNCTIONALITY OF THE REDUCTION ASSEMBLY. IT IS NOT RECOMMENDED THAT THIS ASSEMBLY BE DONE IN THE FIELD. IF DAMAGE RESULTS PLEASE CONTACT STARLIGHT INSTRUMENTS.



1.a. Place the focuser on a paper or a clean work surface as shown and remove the Fine Focus Knob with a 1/16 inch Allen wrench.



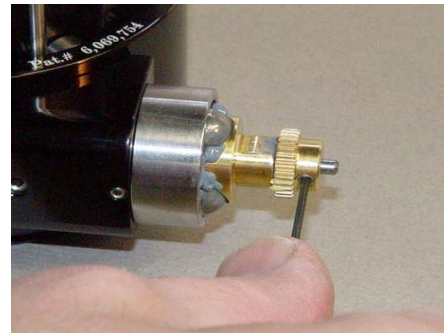
1.b. Remove the Course Focus Knob as shown with a 1/16 inch Allen wrench.

1.c. WARNING: At this point be very careful not to get any dirt or debris into the reduction unit. Since it is filled with grease, any dirt or debris will easily stick to the mechanism and compromise the functionality of the reduction assembly.



The above picture shows a gear for a 2" focuser, the 2.5, 3.0, and 3.5" focusers use a larger aluminum gear and does not need the reduction bushing.

1.d. The picture above shows the gear that is to be mounted onto the pinion shaft. It also comes with a reduction bushing as shown. This reduction bushing is needed for earlier Feather Touch Focusers that used a smaller reduction pin. Remove the bushing from the gear before use if you have the larger reduction pin.



1.e. Attach the gear as shown with the hub towards the outside. Tighten the screw with a .050 Allen wrench. **WARNING:** Be careful not to over-tighten this set screw. It is easy to strip the hex, and will make it extremely difficult to repair.



1.f. Slide the motor unit onto the Planetary Bell. Turn slightly if necessary to engage the gears.



1.g. Fasten the Motor Unit by tightening the clamp collar using a 7/64 Allen wrench.

If you need any assistance with this adjustment please contact us: Tel: 260-244-0020 or Email: support@starlightinstruments.com.