

Feathertouch SCT MicroFocuser

Installation Instructions – Celestron 14” Telescopes

Important: *The telescope optical tube must be positioned horizontally before removing the original focus assembly. If the telescope is not horizontal the primary mirror could move during the installation. Also, the telescope should be positioned with the dovetail on the bottom and the focuser on the right side (as viewed from behind) during installation to prevent flexure from causing the focuser to bind when installed.*

Required Tools: Phillips Screwdriver
 1/16” Hex-Head Wrench

Step 1 Separate Focuser Components



Begin by separating the 3 components of the SCT MicroFocuser. Remove the packing foam from the inside of the focuser. This will allow the Adapter Ring to drop out of the inside of the focuser. Remove the Knurled Sleeve from the main focuser. The Sleeve protects the focus knob during shipping and covers the mounting screws when the focuser is attached to the telescope.

Step 2 Remove Focus Knob



Telescopes with metal knobs are removed by loosening the small set screw in the side of the knob using a 1/16" hex-head wrench. Rubber focus knobs can just be pulled off. This will expose the brass focus shaft to which the MicroFocuser will be attached.

Step 3 Remove Focus Assembly Cover Plate



Using a Phillips screwdriver, remove the three screws that hold the cover plate in place. This will expose the inner workings of the focus assembly.

Step 4 Attach Ring Adapter



Slide the Ring Adapter over the brass focus shaft. The two pins should be pointing out away from the telescope. Lock in place using a 1/16" hex-head wrench to tighten the small set screw in the side. It will help in mounting the focuser to rotate the pins so they are aligned side-by-side. (Looking at the back of the telescope, the left pin should be aligned with the left mounting hole from where the original cover plate was removed.)

Step 5 Orient the Adapter Holes



Hold the MicroFocuser with the "Feather Touch Focuser" logo on top. Look into the inside of the focuser at the brass plate with the two holes in it. Rotate the black focus knob until the holes are oriented side-by-side. (Looking into the focuser with the logo on top, the right hole in the brass plate should line up with the right mounting hole in the base of the focuser.)

Step 6 Attach the MicroFocuser



Slide the MicroFocuser over the Adapter Ring so the pins on the ring fit into the matching holes in the focuser. It may help to rotate the black focus knob slightly to get the pins into the holes. The three mounting holes in the base of the focuser should line up with those on the telescope. Secure the focuser using the included 3 Phillips-head screws.

Step 7 Attach the Knurled Sleeve



Thread the Knurled Sleeve onto the focuser in the opposite direction that it was removed. When transporting the telescope, reverse the sleeve to its original position to protect the focus knobs.