

# Feathertouch SCT MicroFocuser

## Installation Instructions – Meade 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. If you have a German equatorial mount, it is recommended that you remove the scope from the mount for this installation.*

**Required Tools:** 5/64" Hex-Head Wrench (included)

### Step 1 Position Mirrors & Remove Focus Screws

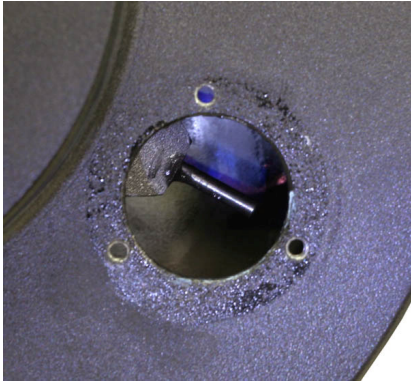


Begin by rotating the focus knob counterclockwise as far as possible to move the primary mirror all the way forward. This will make removing the focus assembly much easier.



Use the 5/64" hex-head wrench to remove the three set screws holding the focus assembly in place.

## Step 2 Remove Focus Assembly



**Important:** *The focus assembly (and the new Feathertouch SCT MicroFocuser) attaches to the internal mirror assembly via a small horizontal rod. This rod points outward away from the center of the telescope tube toward the right side (when looking at the back of the scope). You must slide the focus assembly off of this rod to remove the assembly.*



Pull the focus assembly back and tilt the outer portion to the left. This will allow the threaded shaft to slide off the right end of the small rod that holds it onto the primary mirror assembly.



The picture above shows the tube with the focus assembly removed.

### Step 3 Install SCT MicroFocuser



Begin by threading the inner shaft of the MicroFocuser all the way out to its full extension, as shown above.



Tilt the outer portion of the MicroFocuser to the left as you did with the original focus assembly. Slide the inside tip of the brass shaft over the right end of the small rod on the mirror assembly.

**Warning:** *The brass shaft of the MicroFocuser must be properly centered on the small rod. If it is not, the focuser may bind, potentially breaking it. If you feel that the focuser is tight when turning the knobs after it is installed, do not continue to turn the knob. Remove the focuser again and check that the shaft is centered.*



Use the 5/64" wrench to attach the three original screws. The telescope will likely be significantly out of focus, so you should have to turn the knob quite a few times to reach focus. Now it's time to head out under the stars!