

# Feathertouch SCT MicroFocuser

## Installation Instructions – Celestron 9<sup>1</sup>/<sub>4</sub>” 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:** Phillips Screwdriver  
7/64” Hex-Head Wrench (included)

### Step 1 Remove Focus Knob



Begin by pulling off the rubber focus knob exposing the brass shaft underneath, as shown above.

## Step 2 Remove Outer Cover Plate



Remove the 4 screws holding on the rectangular outer cover plate. Keep these screws as they will be used later to attach the new MicroFocuser adapter plate.

## Step 3 Move Primary Mirror Back



Turn the brass focus shaft clockwise to bring the mirror back and expose the Phillips-head screw at the end of the threaded focus rod.

## Step 4 Remove Set Screw



Use screwdriver to remove the small Phillips screw from the end of the threaded focus rod.

## Step 5 Remove Focus Assembly Cover Plate



Use screwdriver to remove three screws from the focus assembly cover plate (the three screws around the outside of the focus shaft). Remove the cover plate. This can be tricky due to the plate being recessed. A knife blade or flat screwdriver can be helpful.

## Step 6 Remove Focus Bearing Assembly



Turn the brass focus shaft counterclockwise to remove it from the threaded focus rod. This will take quite a few turns. Once the bearing assembly is removed, only the threaded focus rod (which pushes and pulls on the mirror cell to focus the telescope) will be left sticking out of the telescope as above.

## Step 7 Install Adapter Plate



Use the original 4 screws to attach the included adapter plate. Be sure the beveled side is in toward the telescope. There is only one proper orientation for the plate, with the large hole on the left side.

## Step 8 Thread on SCT MicroFocuser



Begin threading the SCT MicroFocuser onto the threaded focus rod. When there is only about 1/4" left to go, simply push the focuser the rest of the way in. This will take up some of the focus travel from when you removed the original focuser, making it quicker to return to the proper focus the first time you use your telescope after the SCT MicroFocuser installation.

## Step 9 Attach the SCT Micro Focuser



Use the three included hex-head screws to attach the SCT MicroFocuser to the telescope. You are now ready to head out under the stars!