

# Feathertouch SCT MicroFocuser

## Installation Instructions – Celestron CPC-1100 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.

**Parts List:** Feathertouch SCT MicroFocuser

**Additional Required Tools:** Phillips Screwdriver  
Wrench: ½” or adjustable

### Step 1 Remove Focus Knob



Begin by removing the black rubber focus knob from the scope. This knob simply pulls off the brass focus cylinder.

## Step 2 Remove Focus Assembly Cover



There are 3 small Phillips-head screws which hold the orange focus assembly cover in place. Remove these screws and take off the flat cover plate, exposing the inside of the focus assembly. These screws will later be used to attach the MicroFocuser.

## Step 3 Move Mirror Back to Expose Screw



Rotate the brass portion of the focus assembly *clockwise*. This will bring the mirror back and expose the threaded portion of the focus shaft. At the tip of this threaded bolt will be a small Philips-head screw and washer. Remove this screw and washer, but keep them handy as they will be reinstalled later.

## Step 4 Remove Focus Bearing Assembly



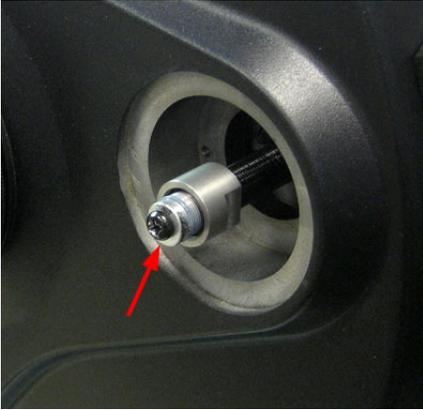
Rotate the brass portion of the focus shaft *counterclockwise*. This will unthread the brass cylinder and bearing assembly from the threaded rod. Remove these parts entirely (you will have to turn the brass shaft quite a few times to remove it).

## Step 5 Remove Stop from MicroFocuser



Unthread the stop from the end of the MicroFocuser. This stop prevents the telescope mirror from falling off the baffle tube inside the telescope. Thread the stop onto the focus shaft of the telescope. Be sure to thread the stop on far enough that the end of the threaded rod is exposed.

## Step 6 Reattach Screw



Thread the screw back into the end of the focus shaft.

## Step 7 Attach MicroFocuser to Stop



Thread the MicroFocuser into the brass stop. Hold the stop with a wrench and the black focus knob with the other hand to tighten the stop. ***This stop MUST be tight to secure the MicroFocuser to the focus shaft.***

Thread the focuser down the threaded rod until the base sits flush with the back of the telescope. If it does not thread all the way down, push it forward to move the position of the primary mirror, allowing the focuser to fit against the back of the scope.

## Step 8 Attach SCT MicroFocuser



Use the three original screws to attach the SCT MicroFocuser to the telescope. You are now ready to head out under the stars! Use the black knob for coarse focus and the brass knob for fine focus (10:1 ratio). Note that the telescope will likely be pretty far out of focus, so you may need to turn the focus knob quite a few times to reach focus.