

Prior Scientific Help Guides and Installation Instructions

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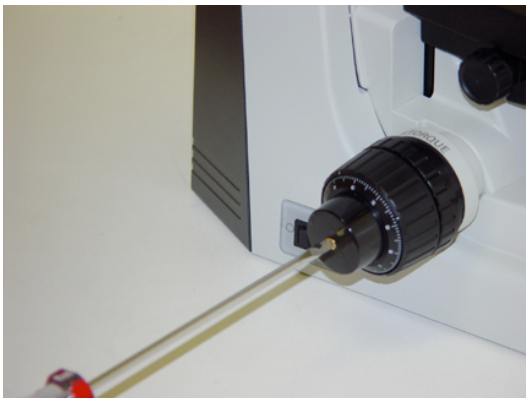
# Installing the PS3HI22R Focus Coupler to Nikon 50i/80i Microscopes

## Installation instructions

- 1) Remove outer rubber cap from the left hand side fine focus knob exposing slotted brass nuts as shown below.



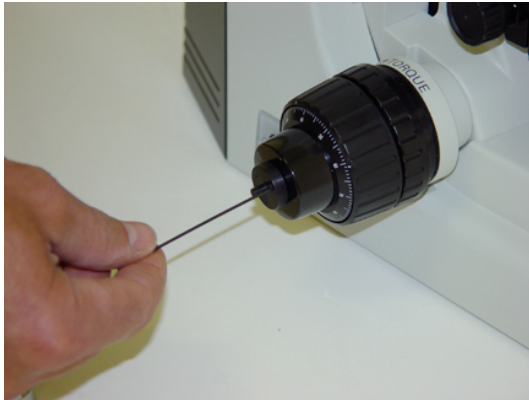
- 2) Remove slotted brass nut using the flat head screwdriver provided, as shown below. This will expose a threaded shaft. **Do not remove the fine focus knob.**



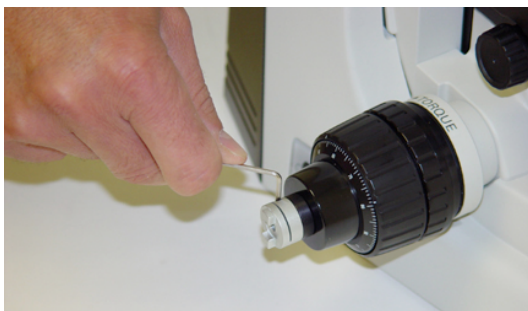
- 3) Thread the shaft extender onto the fine focus shaft and tighten firmly with your fingers.



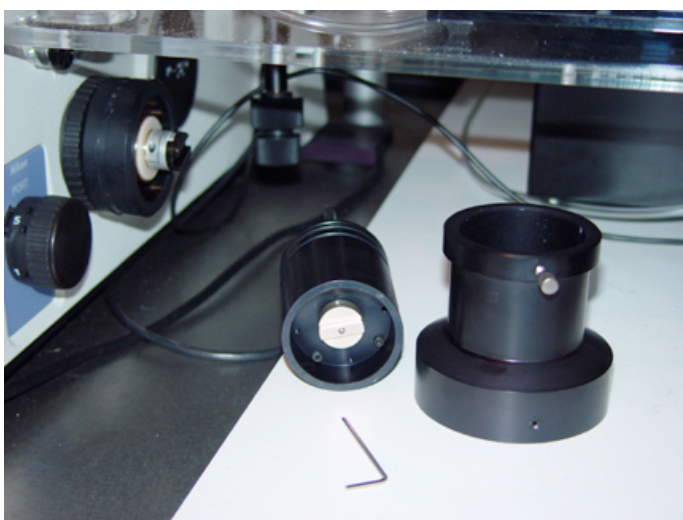
- 4) Tighten the 3 set screws of the shaft extender into the fine focus knob,  $\frac{1}{4}$  turn at a time as shown below. Tightening the set screws  $\frac{1}{4}$  turn at a time will ensure that the shaft extender stays aligned with the fine focus shaft. You can determine if the shaft extender is off axis by looking down from above and rotating the fine focus knob. The shaft extender should spin true and not wobble.



- 5) Mount the hub onto the shaft extender as shown below.



- 6) Remove the existing rubber coupler from the focus motor shaft and replace with the remaining hub, as shown below.



- 7) Place the black plastic anti-backlash coupler into the hub attached to the fine focus shaft. Clamp the focus motor bell shaped housing onto the coarse focus knob using the 3 set screws located around the outside diameter of the bell shaped housing. Slide the focus motor into the bell housing, taking care to align the raised section of the hub with the slot in the black plastic anti-backlash coupler. You may need to rotate the motor slightly to ensure proper engagement between the hub and anti-backlash coupler. The installed focus motor should look as shown below.

