

Prior Scientific Help Guides and Installation Instructions

UPDATED 27 APRIL 2015

Emission Filter Wheel Up-Installation for Nikon Ti and Nikon TE2000

Instructions for Emission Filter Wheel Installation for Nikon Ti

These instructions assume installation with a previously purchased filter wheel. If the 'Up Kit' was purchased with the filter wheel, skip ahead to step 8. In addition to the microscope, the kit, and the filter wheel, you will need a set of allen keys.

1. Remove the blocks mounted to either side of the filter wheel that allows it to be mounted upon the stand.



2. Remove the adapter mounting plate



3. Remove the cover plate to expose the inside of the wheel. Set the screws aside – they will be used later.



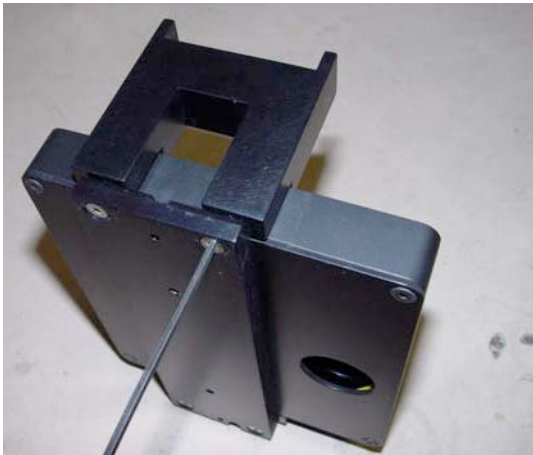
4. Remove the standoffs from either side of the connector and replace them with the provided posts



5. Attach mounting plates and base to filter wheel with the M4 countersunk screws that were removed in step 3. The aperture in the plate should line up with the aperture in the wheel housing on the opposite side. Please remove the magnetic cover.



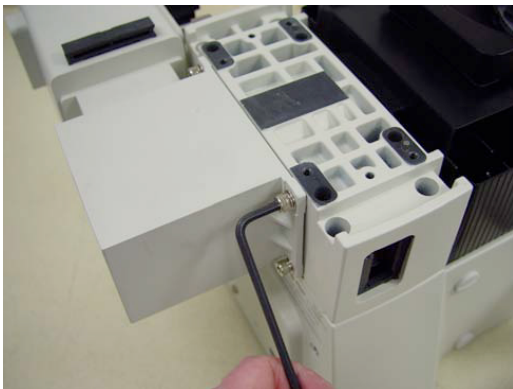
6. Attach turret supports to the base as shown.



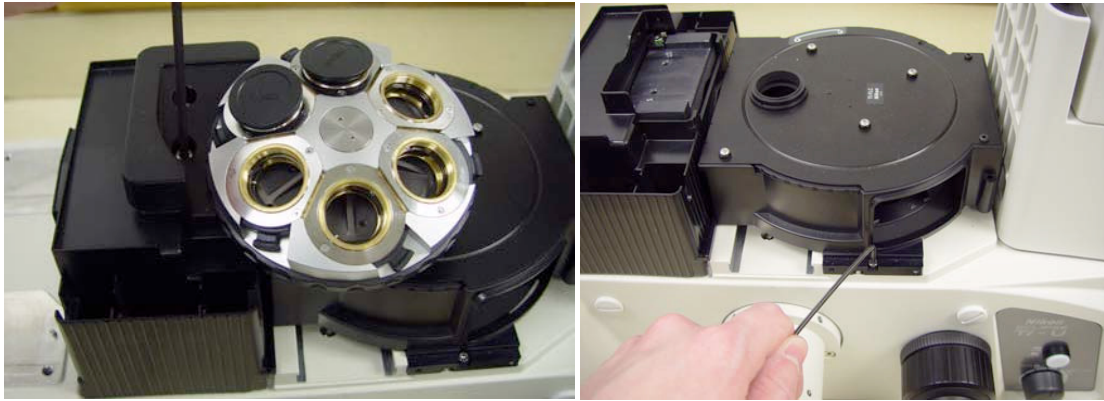
7. Note the proper position of the supports below.



8. Remove the illumination pillar, epi-fluorescence arm and pillar riser from the microscope.



9. Remove the nosepiece and the filter turret.



10. Install nosepiece block using the M5 x 16 cap head screws and washers provided.



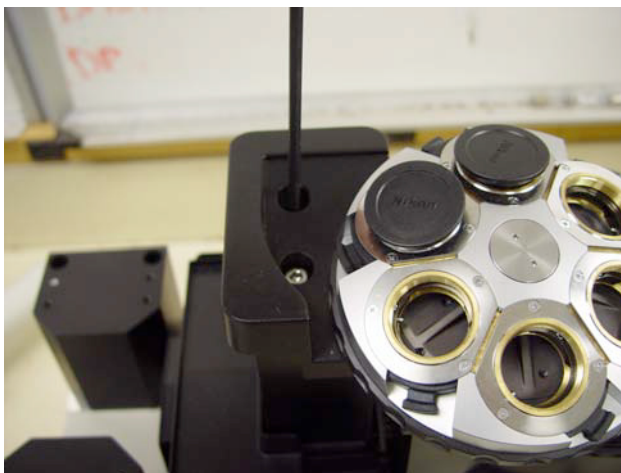
11. Install the filter wheel assembly as shown using the M3 x 10 cap head screws provided. Place the light tube on the aperture of the wheel.



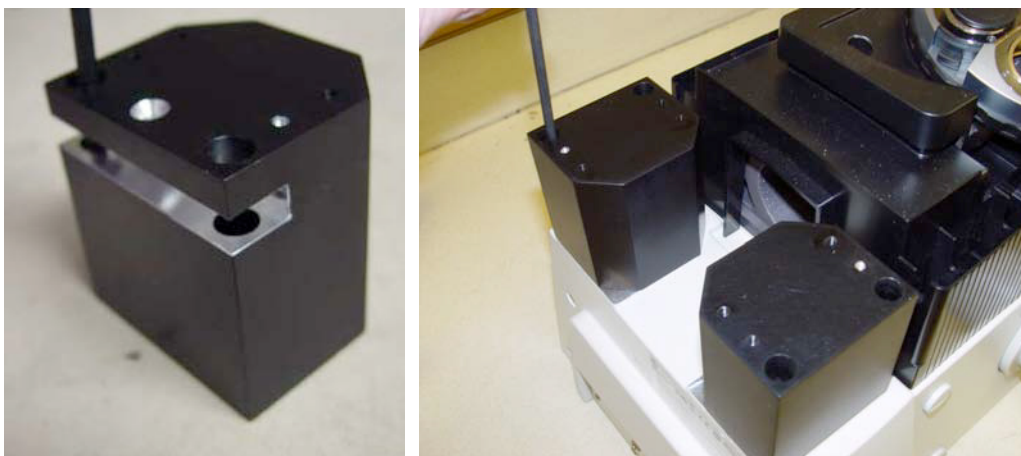
12. Install the filter turret on top of the wheel assembly using the screws provided with the microscope.



13. Install the nosepiece using the M5 captive fasteners provided with the microscope



14. Drop the M5 x 50 cap head screws provided through the access holes in each of the pillar riser blocks. Position the blocks on the microscope base as shown and tighten the screws. #



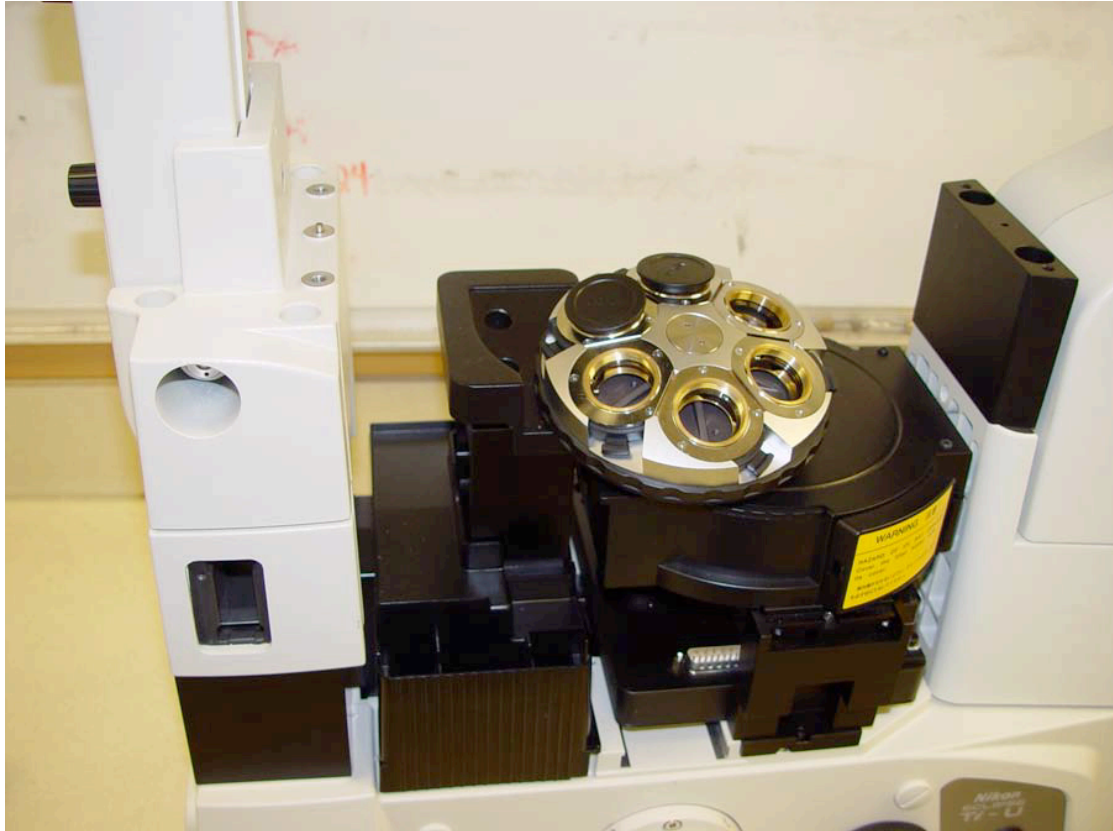
15. Insert screw plate into the slot on each of the riser blocks as shown and fasten using the M4 x 14 countersunk screw provided. Note that the plate is symmetric.



16. Place the pillar riser on top of the riser blocks as shown and secure using the M5 x 60 cap head screws provided with the microscope.



17. Install the front stage riser as shown using the M5 cap head screws and washers provided. Attach the illumination pillar and epi-fluorescence arm to complete the assembly. Finally the filter wheel cable must be fitted with the provided hood for a right angled exit. The hood should be fitted to the female end of the cable such that the cable exits the wheel towards the rear of the microscope.

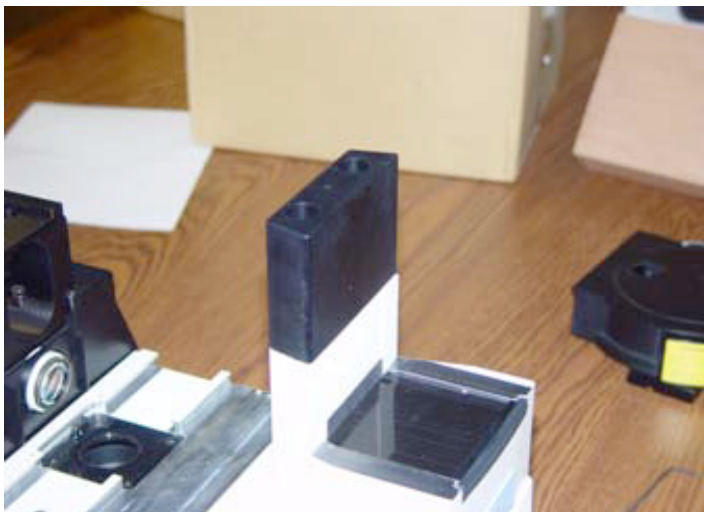


Instructions for Emission Filter Wheel Installation for Nikon Te2000

- 1) Remove the binocular head, the filter turret, and the illumination pillar as shown below.



- 2) Install front stage riser using M5 x 60 socket head cap screws.



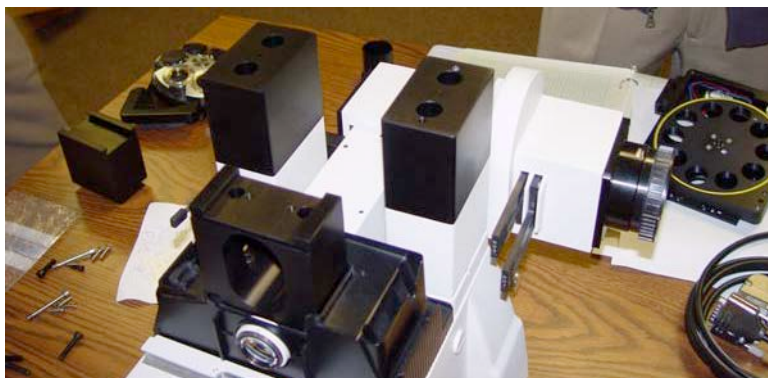
- 3) Install the nosepiece block using M5 x 20 socket head cap screws as shown below.



- 4) Remove epi-fluorescence attachment and install the epi-fluorescence dovetail riser using the existing screw set. Re install the epi-fluorescence attachment using the set screw provided in the epi-fluorescence dovetail riser. This must be done before installing the illumination pillar blocks.



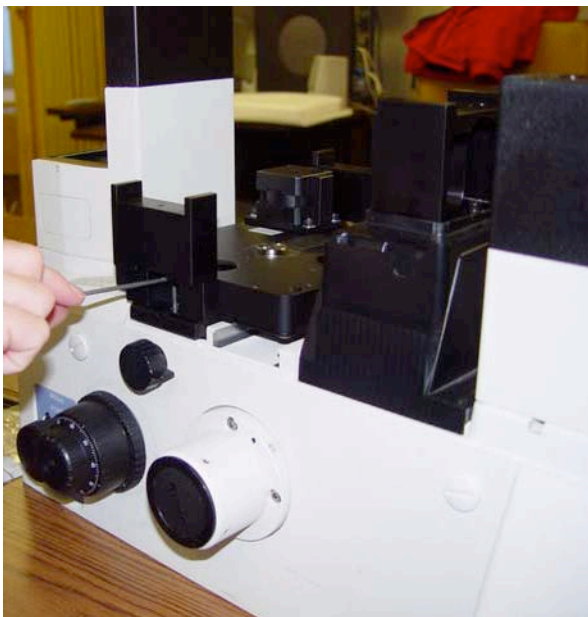
- 5) Install two pillar blocks to raise the illumination pillar using the four M5 x 60 socket headed cap screws.



6) Re-install the illumination pillar.



7) Install the filter wheel/turret block assembly into the original position of the filter



8) Install the stage and filter turret. The complete assembly will look as shown below.

