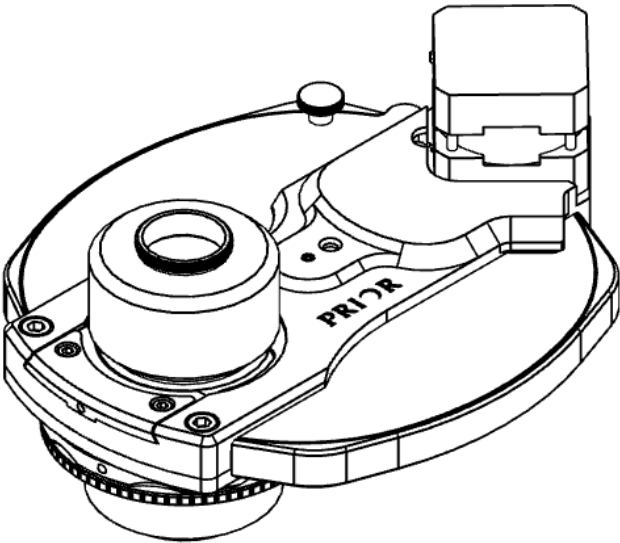


Installing HF108B Filter Wheel onto Nikon Microscopes



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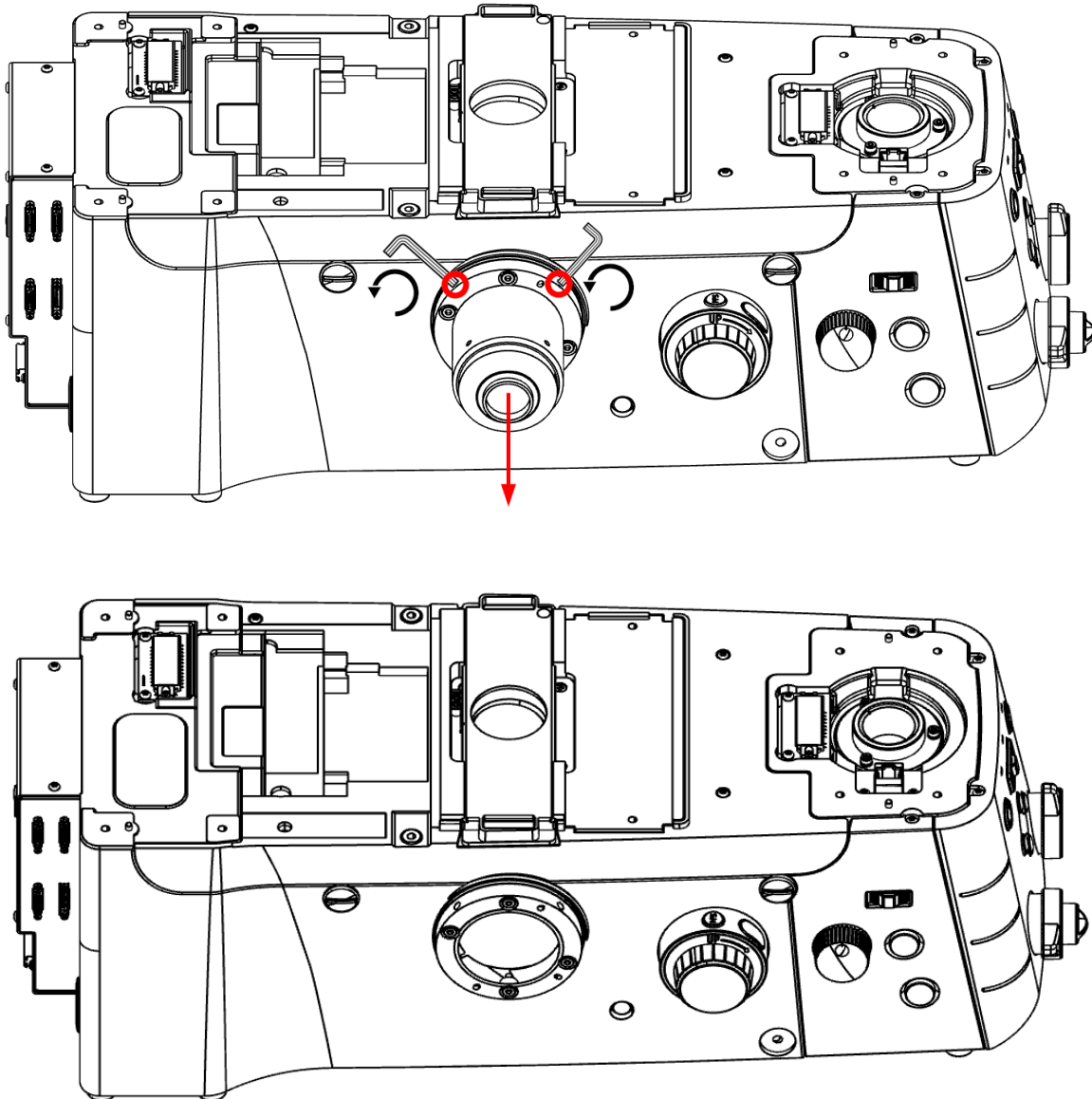
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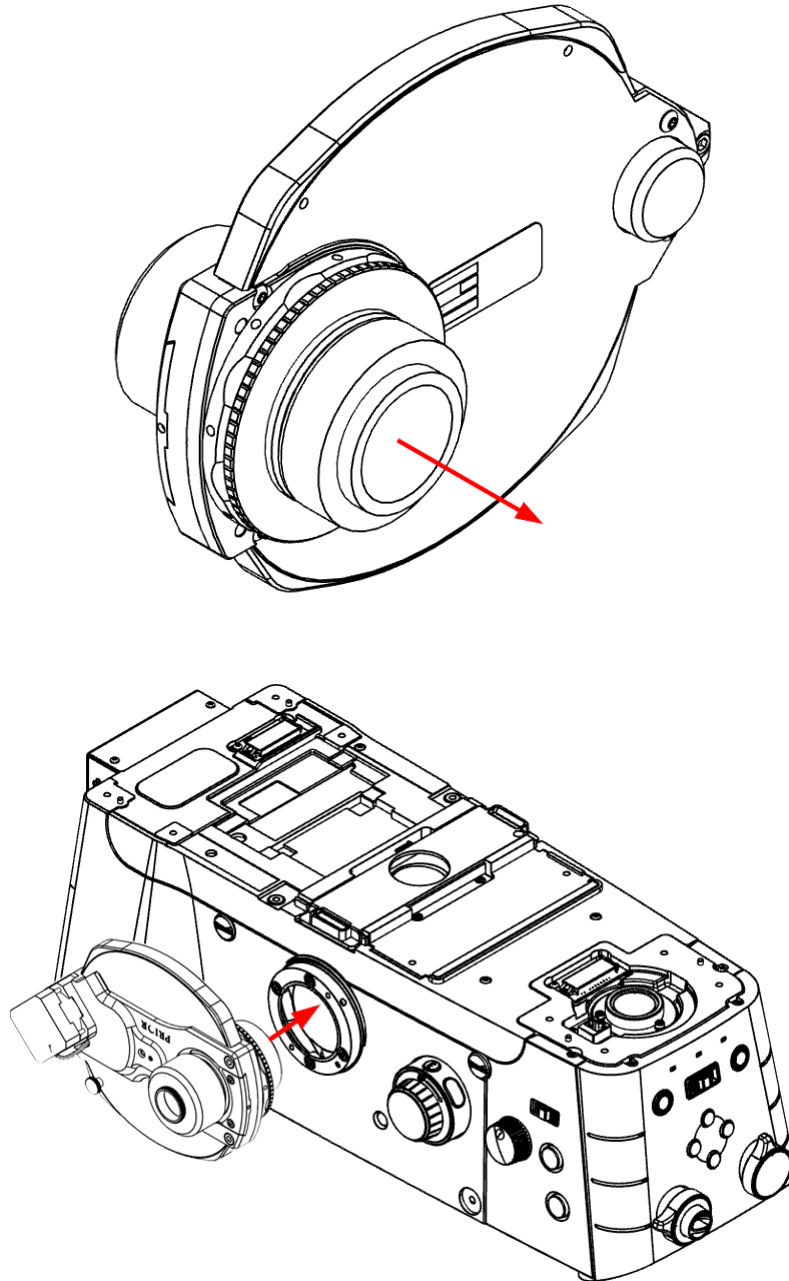
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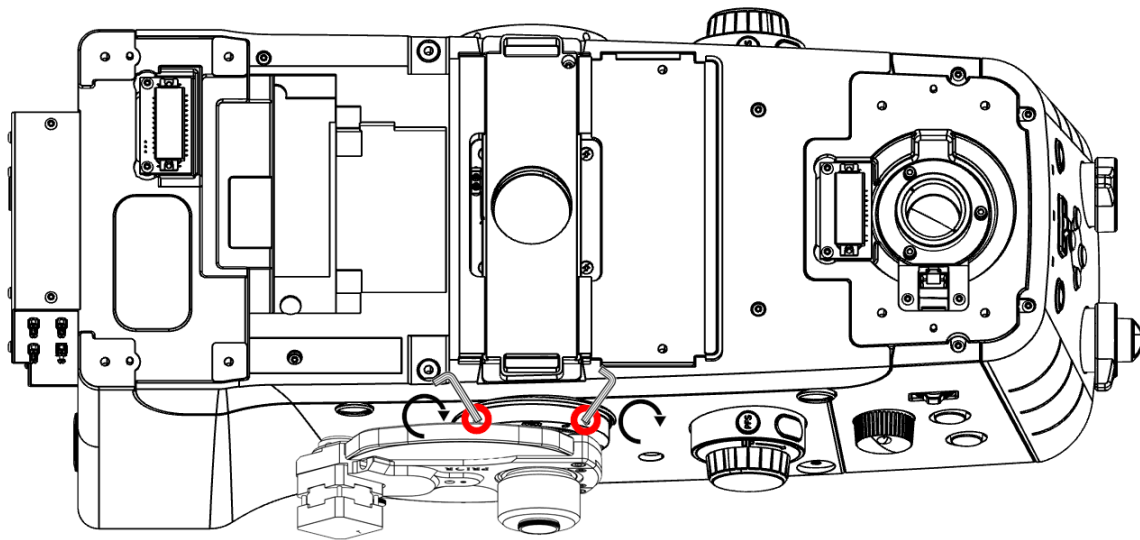
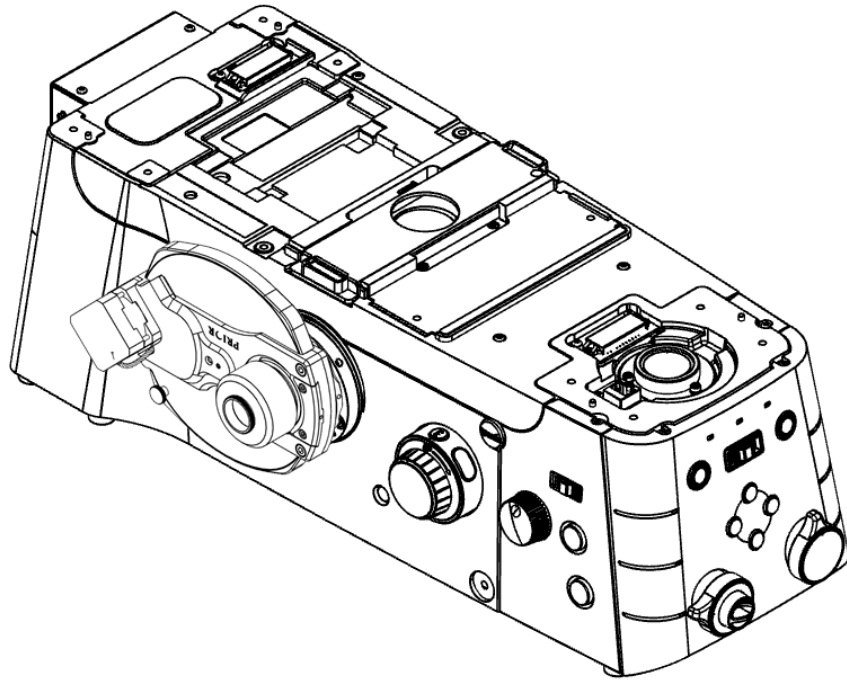
Installation onto Nikon Inverted Microscope

1. Remove camera C-mount from emission port.



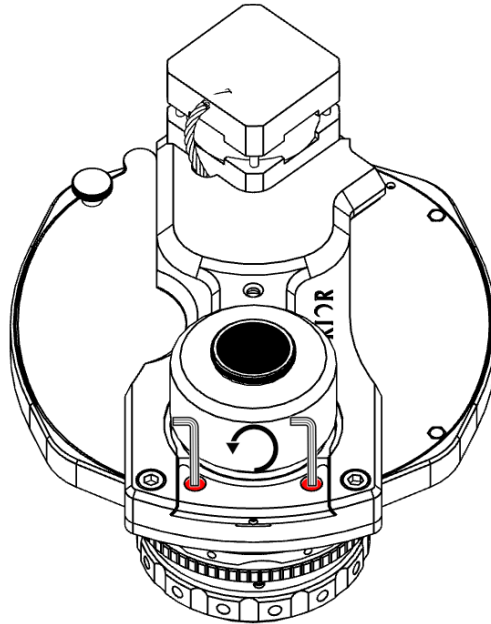
2. Attach the filter wheel to the emission port.



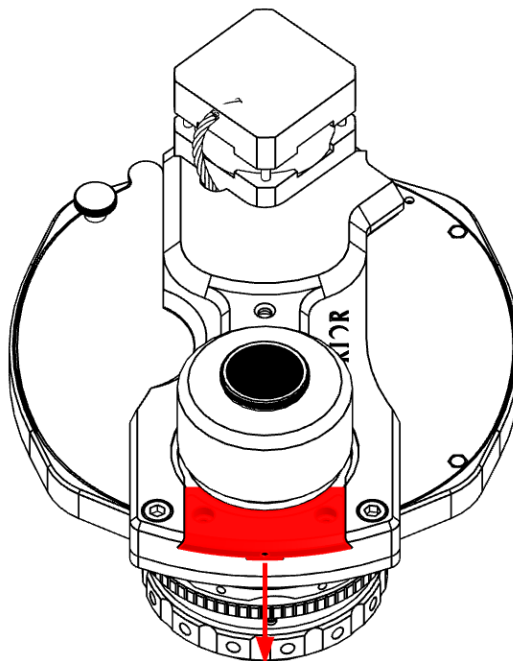


Changing the installed camera mount

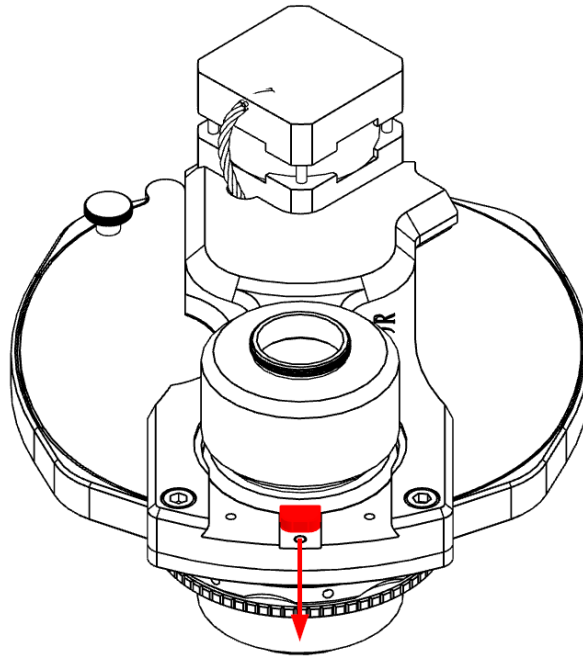
1. Unscrew the two bolts securing the camera mount.



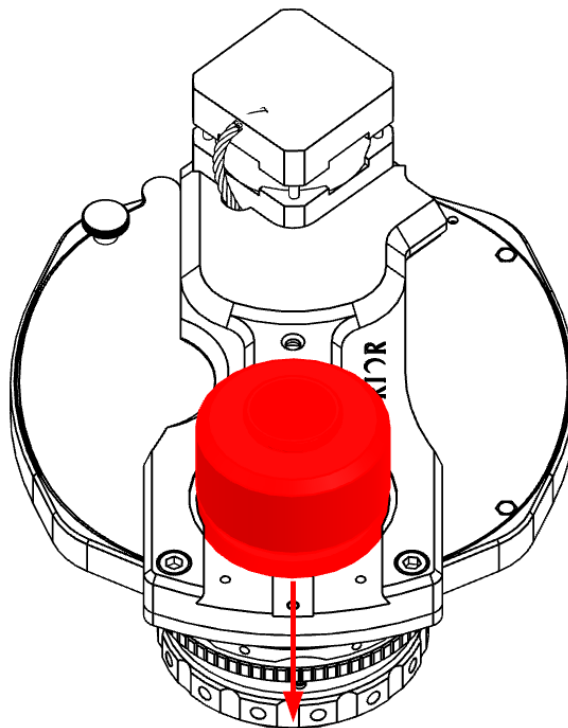
2. Slide out the camera mount locking bar.



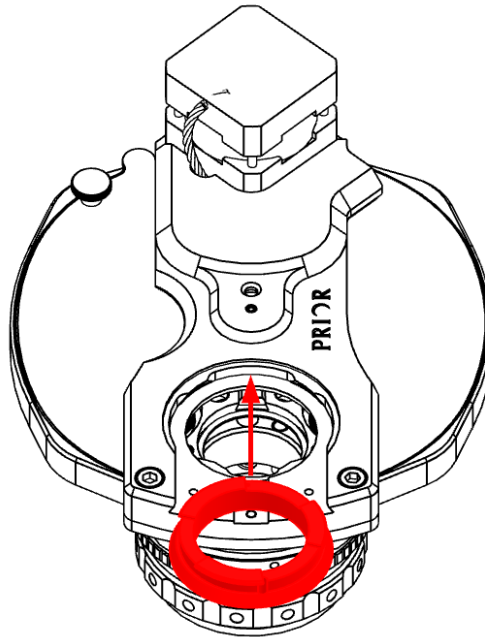
3. Slide out the brass dovetailed piece, noting the correct orientation.



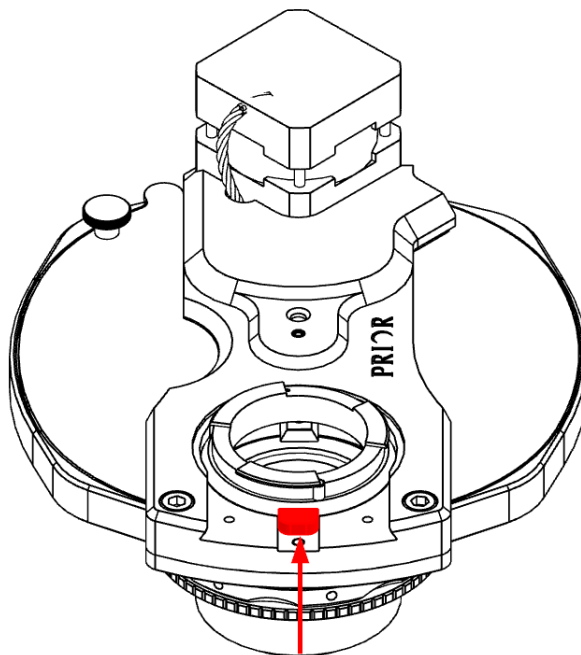
4. Slide out the previous camera mount.



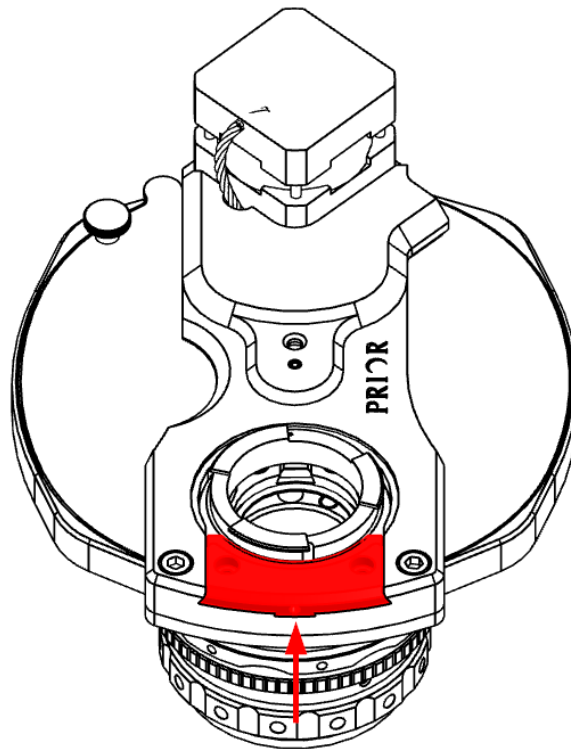
5. Slide in the new camera mount.



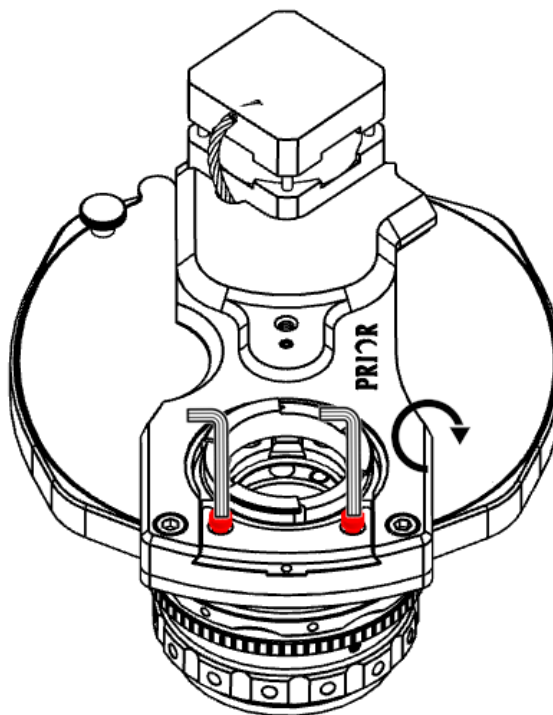
6. Replace the brass dovetailed piece, maintaining the previous orientation.



7. Replace the camera mount locking bar.



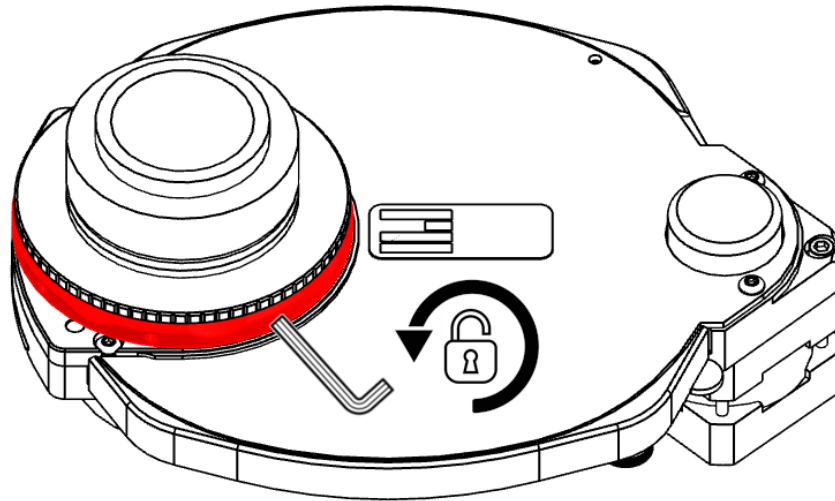
8. Re-screw the locking bar into place.



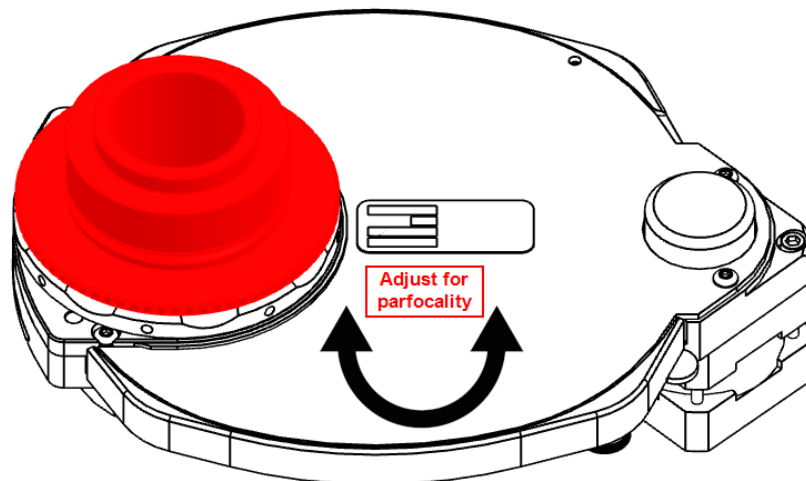
9. Replacement is now complete.

Making parfocal adjustments

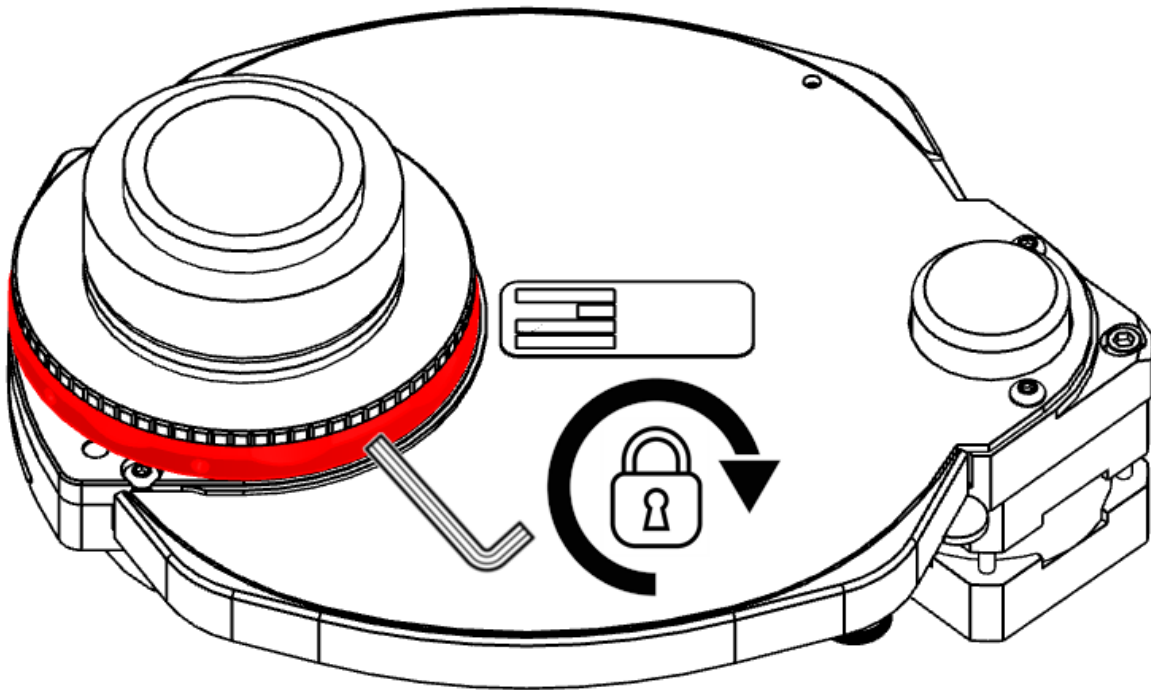
1. Unlock adapter lock ring by rotating it anti-clockwise. It may be required to use a hex key for leverage if the filter wheel is installed.



2. Turning the adapter anticlockwise (towards the front) will extend the path length, turning the adapter clockwise (towards the back) will reduce path length.



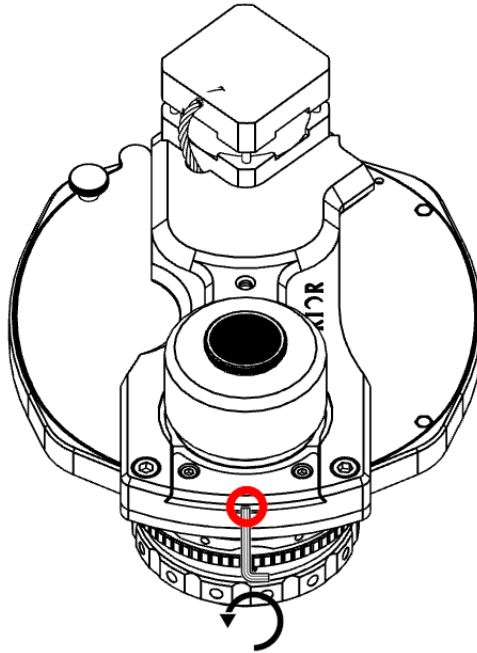
3. Once parfocal, retighten the adapter lock ring by rotating it clockwise.



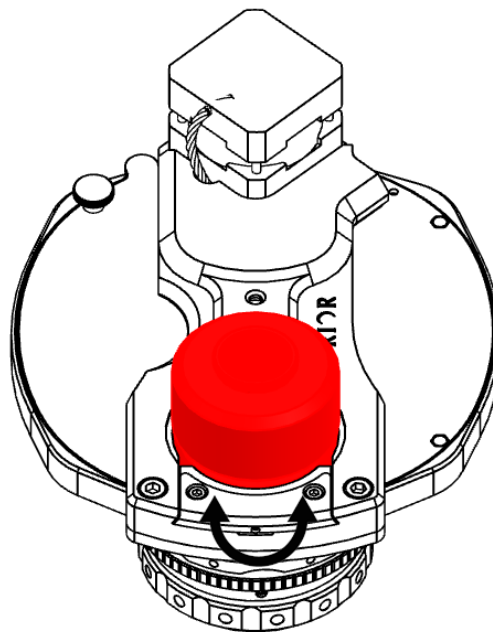
4. Parfocality adjustment is now complete.

Changing camera orientation

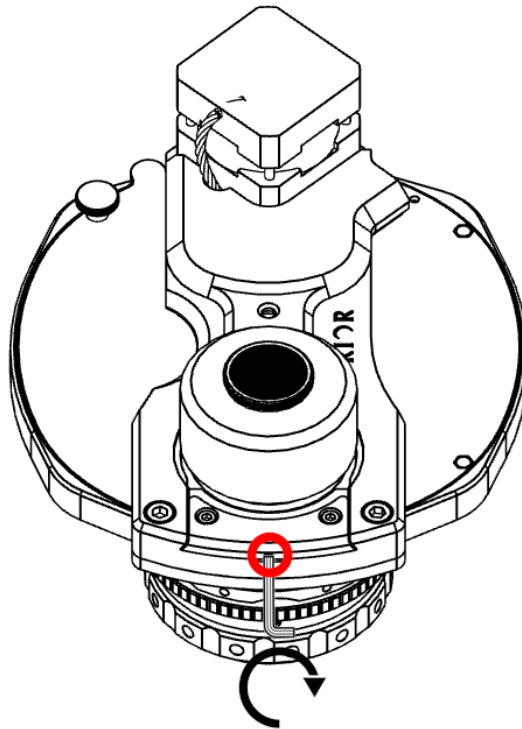
1. Loosen circled grub screw.



2. Rotate camera mount to desired position.



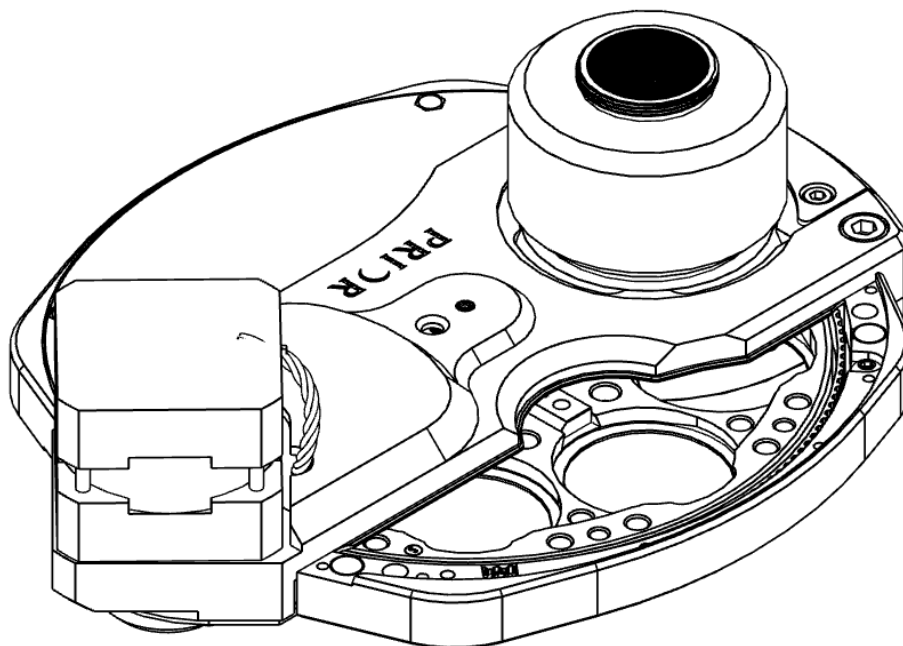
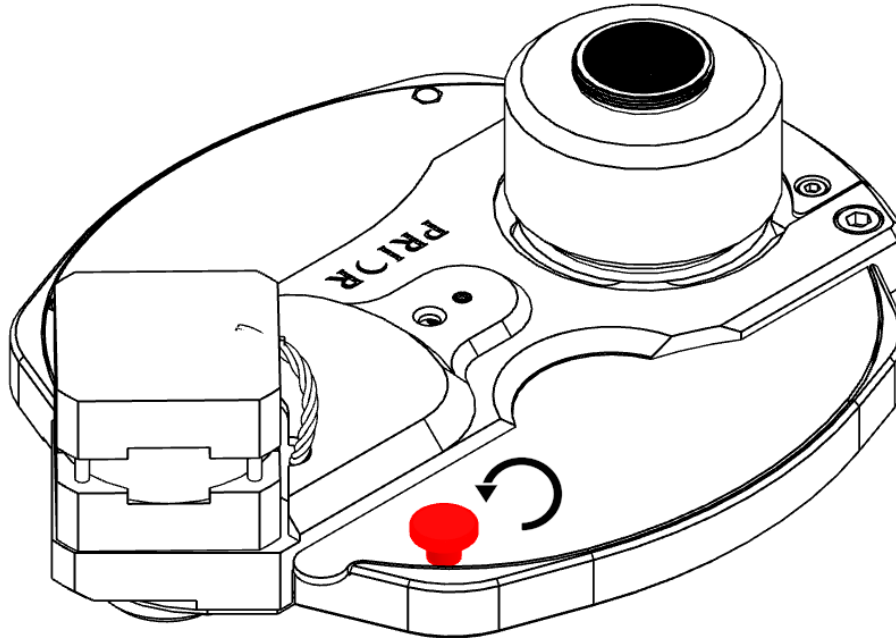
3. Re-tighten circled grub screw.



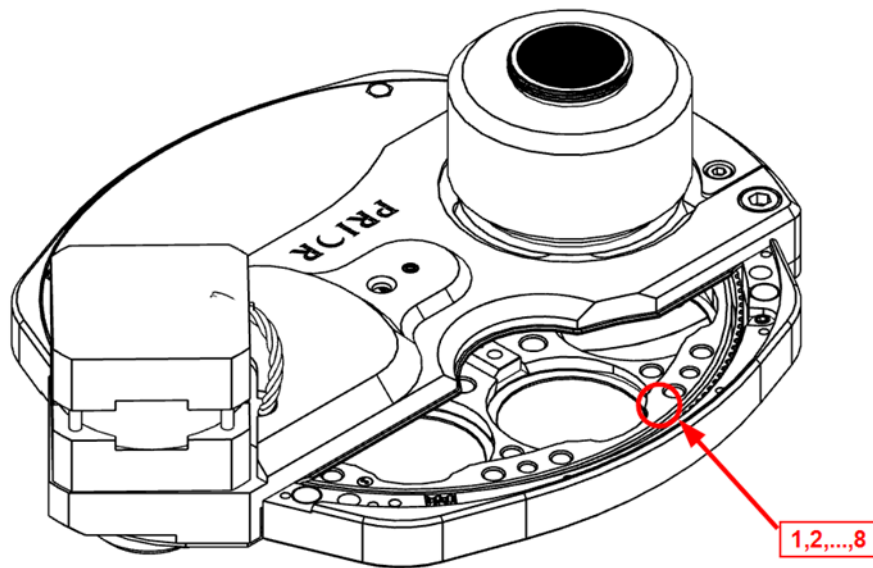
4. Camera orientation change is complete.

Installing and removing filters

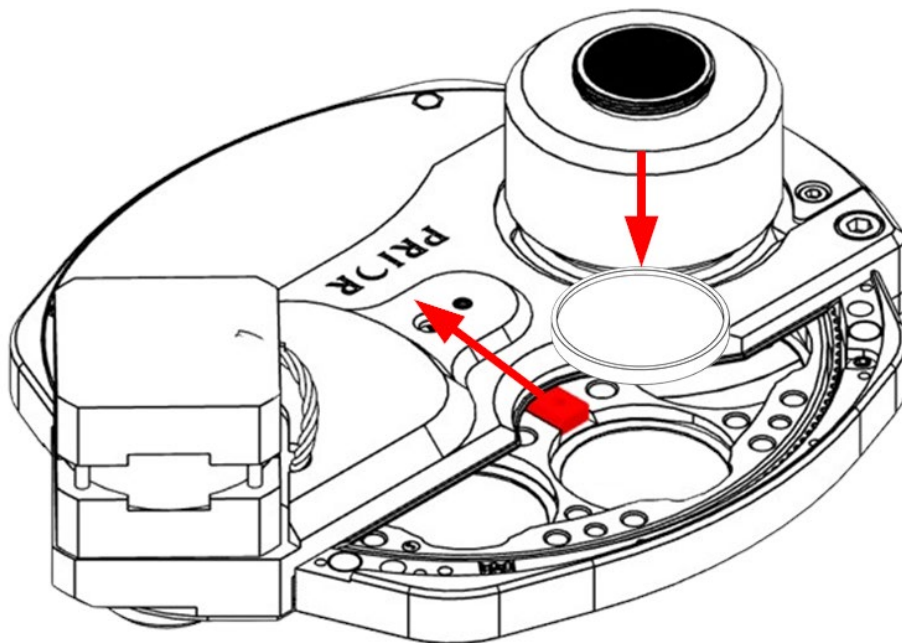
1. Remove the filter cover.

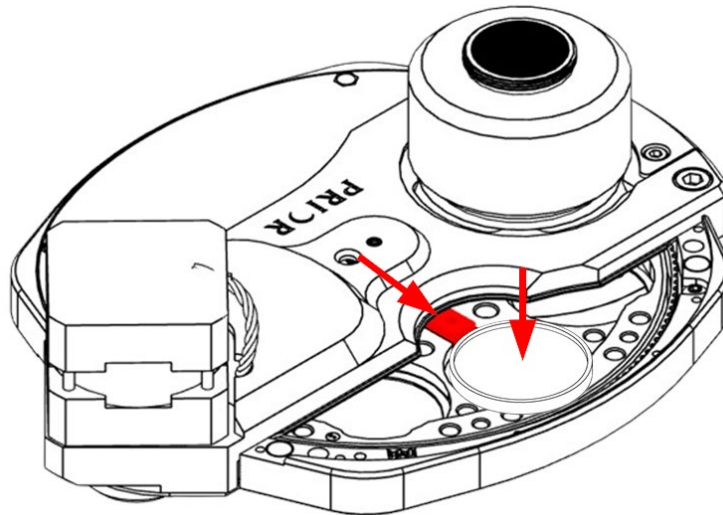


2. Confirm filter position.

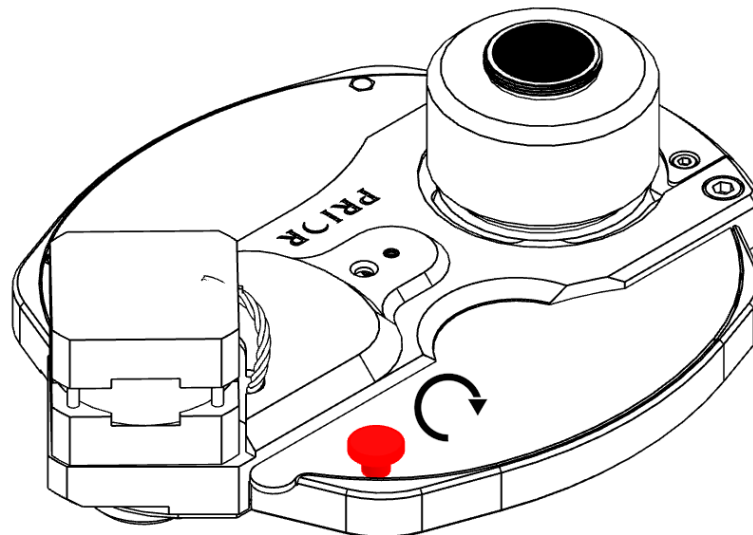


3. Insert filter into wheel by pulling back retainer with hex key.





4. Repeat for all desired filters.
5. Reattach filter cover.



6. Filter installation is now complete. Filter wheel should be rehommed before use. This may be autohomed if setup previously with the 7,1,A serial command or via the serial command 7,1,H (where 1 is the filter port on the Prior Controller).
7. To remove filters, pull back retainer with hex key and lift filter from cell.

About Prior Scientific

Prior Scientific has manufactured precision optical and electromechanical equipment and instrumentation for over 100 years.

As the leader in the development of systems for precision motion control and microscope automation, we work closely with our partners and customers to develop customized optical and automation systems as well as providing a wide range of standard microscopy components.

We partner with system integrators and OEMs to develop prototypes, custom-built products, and complete imaging system solutions according to individual customer requirements for a variety of applications. Our integrated design and manufacturing facilities enable us to seamlessly transition from concepts to production systems. Typical applications for our products are found in photonics, life science research, material science, nanotechnology, medical devices, metrology, and semiconductor manufacturing.

Our mission

We understand that every problem requires a unique approach. Our team works closely with customers and partners to identify their specific needs and design a cost-effective and tailored solution that meets their unique requirements. We continue to push scientific boundaries and constantly build on and improve our expertise in automated precision optical and mechanical systems.

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