

# Removing the Optical Tubes from the RAMM

## Tools Needed:



- 2mm socket driver and
- 2mm Allen wrench

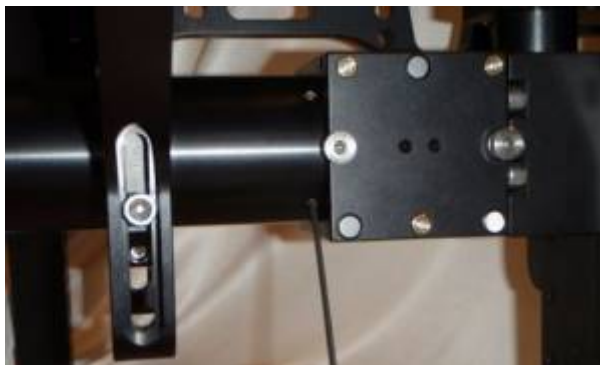
STEP 1: Locate the tube on the RAMM.



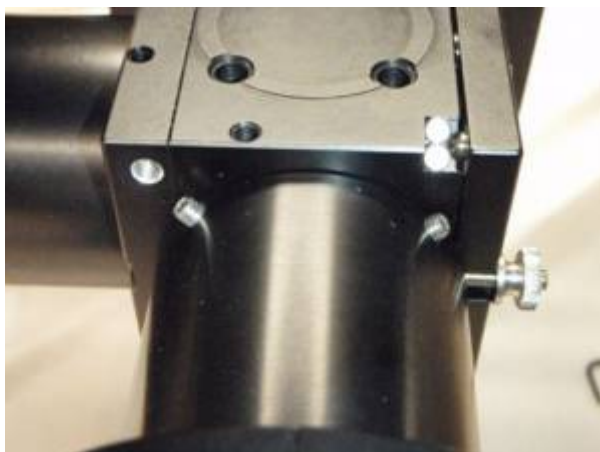
STEP 2: Remove the top two metric set screws with the 2mm Allen wrench.

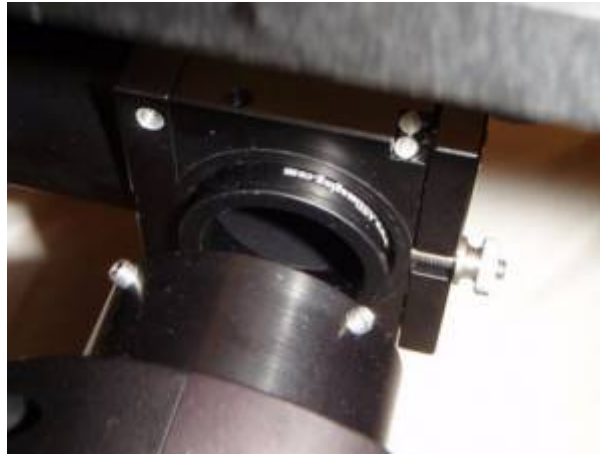


STEP 3: Remove the bottom two set screws with the 2mm socket driver.

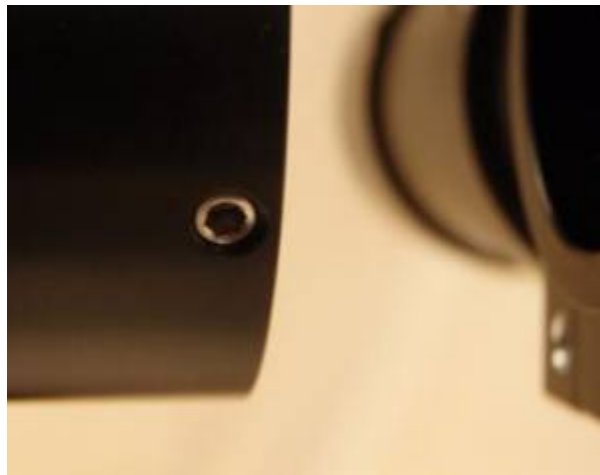


STEP 4: The set screws should all be exposed by 4mm at this point to allow the tube to be pulled off the RAMM.





STEP 5: The tube should slide and rotate inside the tube clamp. If not the tube clamp must be loosened too. Once the tube is loose drive the set screws into the tube till none of the threads are exposed.



STEP 6: Pull the tube out of the tube clamp pair. Tape or bag the tubes optical ends as well as the optical path of the RAMM to keep dust out of the light train. If the RING "A" needs to be removed there are three set screws that must also be removed? Now you are ready to add a new tube to the RAMM. Follow these directions in reverse to mount the tube.



If you have any problems removing or installing the Tubes on the RAMM contact a ASI technician for further instructions on the procedure so that you don't get frustrated and the system doesn't get damaged.

[tech note](#), [ramm](#), [mim](#)

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