



# Fujinon MK-R

## RF Mount Conversion Guide

### by Duclos Lenses

Time Required: 15-20 minutes

Tools Required: #0 Philips Driver

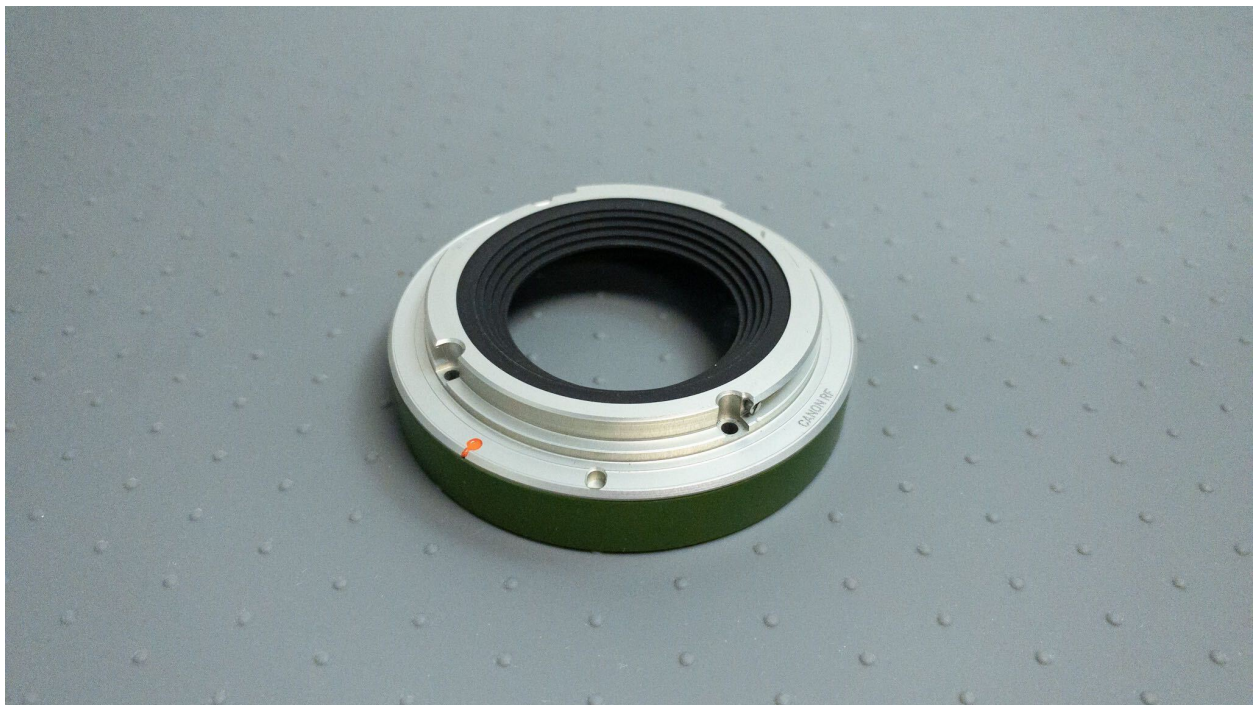
Auto-Collimator or Test Projector

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## **1. Check for proper components**

MK-R Kit should include an aluminum Flange (silver) and an aluminum Tension Ring (green). The flange should have a small stop screw in the outside wall as well as a small set screw on the underside, inside wall.

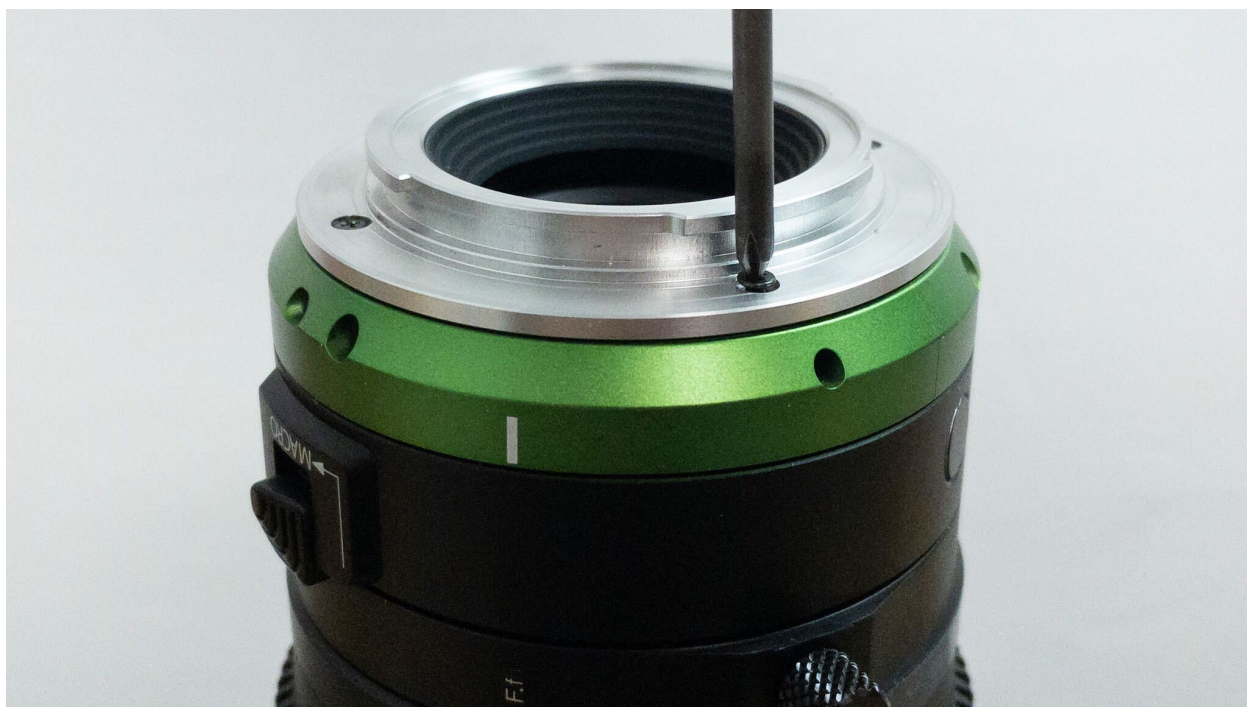


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## 2. Remove original mount

Remove and set aside four philips head screws from rear of lens mount (E-mount or Micro 4/3, same procedure). These screws will be used to secure new mount. Once the mount is removed, the plastic shims will be exposed. Leave the shims as-is. The mount may be snug as a result of centering screws gripping it. Apply light force if needed.



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### 3. Remove green plastic cover ring

This cover ring is used to hold the spring-loaded macro function in place. Remove three philips head screws around the outside of the green ring. They are the larger, more visible screws on this ring. Do not adjust the other smaller screws.



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#### **4. Clean adhesive from screws**

To prevent contamination, we recommend removing excess adhesive used during initial assembly. This can be found around the screw holes of the previously removed screws as well as the centering screws. A cotton-tipped swab with acetone should easily remove the adhesive.



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## 5. Pre-Install Mount and Tension Ring

As previously noted, the rear group of the MK lenses is spring-loaded to allow for travel during Macro function. This position is critical to provide accurate back-focus adjustment using the integrated function. Align the Flange and Tension Ring assembly using the locating notch and the smart-side witness. Snug the four mount screws back in place which should push the Macro Ring forward as well.



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## 6. Adjust Tension Ring

Now that the mount is pre-installed, the green Tension Ring can be adjusted to achieve the ideal fit. This adjustment will be different for every lens depending on the thickness of the shim stack that the lens came with from the factory. To adjust, simply thread the green Tension Ring forward while evaluating back focus accuracy on a collimator or test projector. Once set, confirm that the Macro function still moves accurately and there is minimal space between the Macro Ring and the F.f Adjustment Ring.



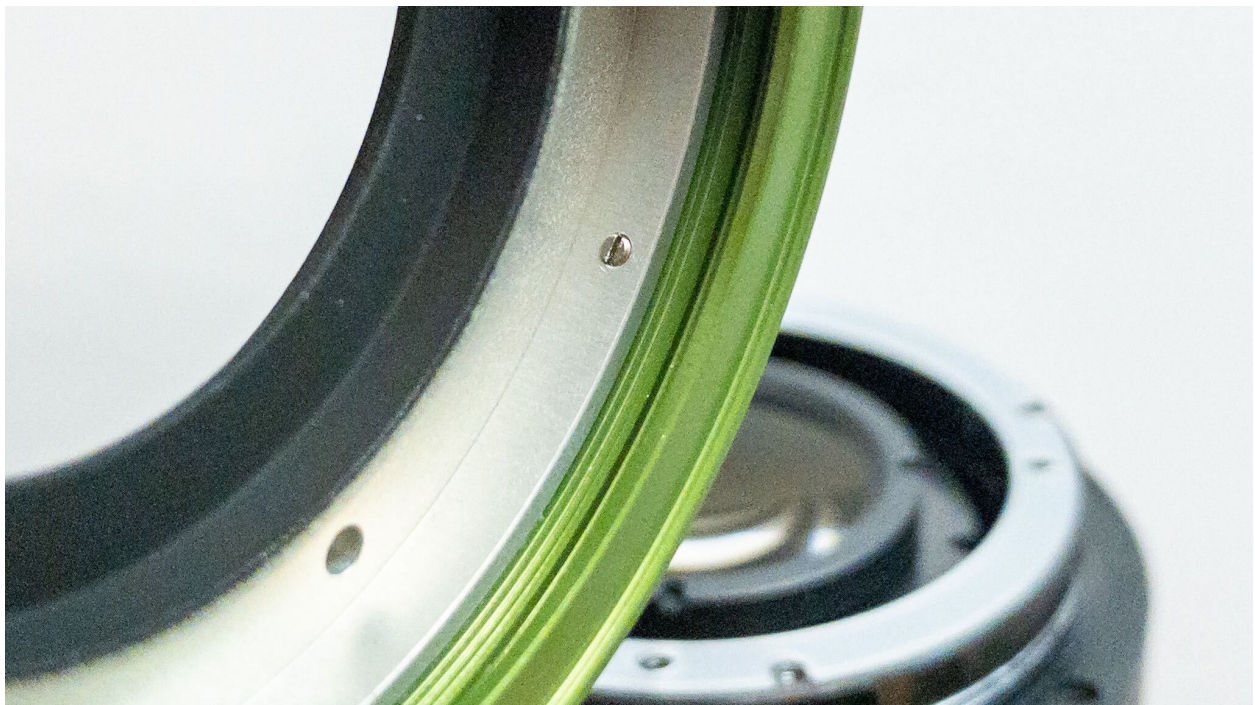
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## 7. Fixing the Tension Ring

The Tension Ring can now be set to its fixed position. Remove the four screws holding the silver Mount Flange in place, being careful not to disrupt the position of the tension ring. Tightening the small set screw on the inside of the silver Flange to lock the Tension Ring into position. A small drop of Three-Bond or thread locker is recommended to prevent the set screw from backing out.



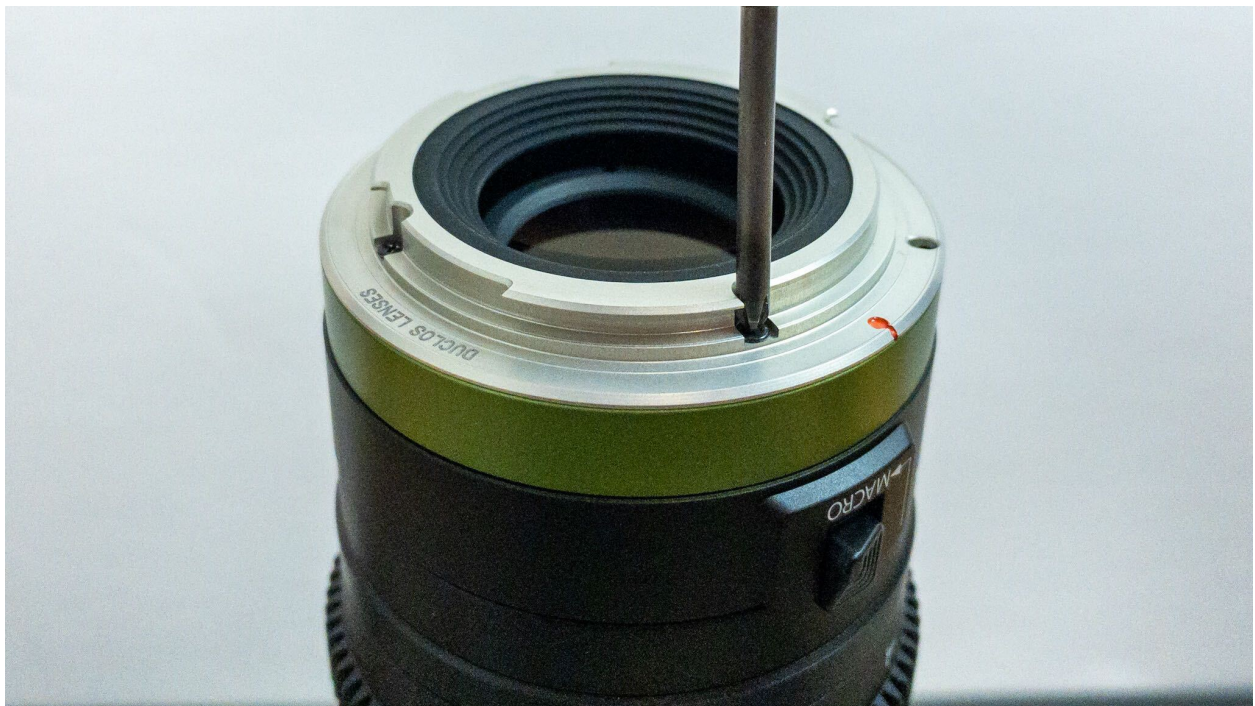
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## 8. Re-Installation of Flange

Now that the Tension Ring is fixed, you can re-install the flange assembly. Once all four screws are tightened, check Macro function to ensure smooth operation. At this point, back focus should be confirmed. The integrated F.f Adjustment ring should be at or near the “zero” point. Please keep in mind that many RF mount cameras will not have precisely tuned flange depth which can create back focus errors. The integrated back focus adjustment can correct for most of these errors.



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## **9. Fine Tuning (optional)**

In some cases, the shim stack may be too large or small from the factory. Adding or removing shims to achieve accurate back focus at the “zero” point may be required, similar to a normal back focus adjustment.

In some cases, we find that adding lubrication to the surface where the Macro Ring and the green Tension Ring meet can improve the feel of the Macro function. However, this is not necessary.

The pilot diameter of the Mount Flange is machined to a very high tolerance. However, in some rare cases, minor centering adjustments can improve the overall symmetry of the image. This can be done by loosening the four mount screws and making axial adjustments on a vertical collimator or MTF bench as needed. In most cases, not necessary.

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## **10. QUESTIONS**

In the event you run into any issues during installation or if you feel something can be improved, please don't hesitate to contact one of our engineers. We'll be happy to help as much as we can. [help@ducloslenses.com](mailto:help@ducloslenses.com)

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