



Reflex-Nikkor 1000mm f11 Mirror lens (partial) Teardown

Partial / tactical teardown, for cleaning and quick repair.

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INTRODUCTION

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TOOLS:

- [Essential Electronics Toolkit](#) (1)
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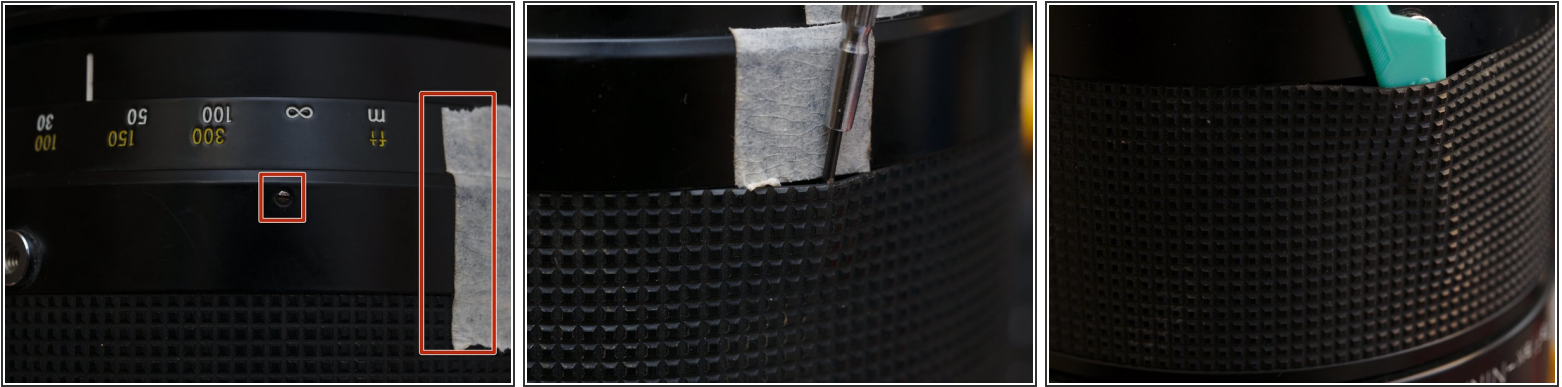
Step 1 — Remove Tripod Mount



- Face lens down, (front on table)
- Remove 3 screws on the lens mount
- Remove lens mount
- Pull / push tripod mount towards back of the lens, and remove it. Be patient, it is very precisely assembled.
- Loosen tripod ring, till it can rotate.
- Remove tripod ring. Be aware, there is a 90 degree stepping steel ball inside.

 photos TBD

Step 2



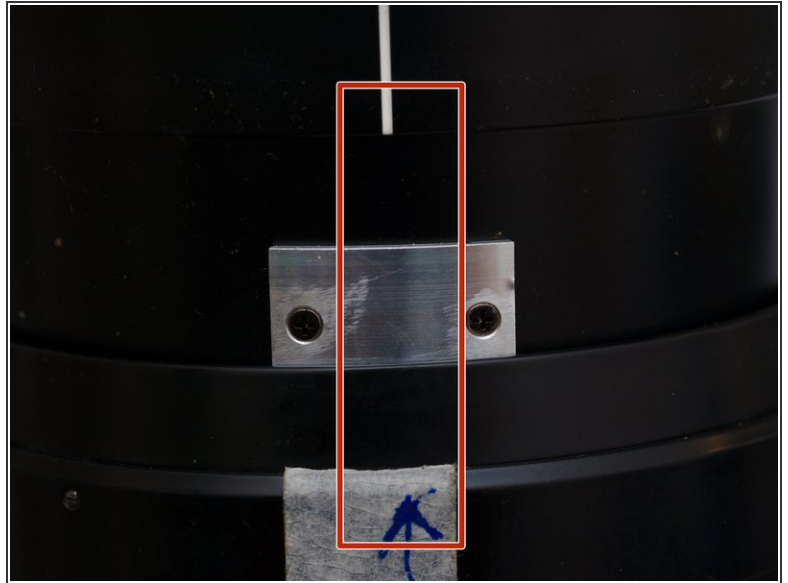
- Do NOT remove 3 focus scale calibration screws. I actually did that when attempting disassembly. And luckily, I also marked the original position before that.
- ⓘ I tried to remove the front element group first. But the thread is some how locked and impossible to turn using my current tooling. So I gave up, and most cleaning does not need to remove front group.
- Remove focus ring rubber. Take your time, it's a huge piece and might be glued.

Step 3



- Remove 2 focus stop screws. Your's might be in different holes. Also you may like to calibrate that. There 3 holes at the infinity end, and 2 at the close-up (8m / 25 ft) end.

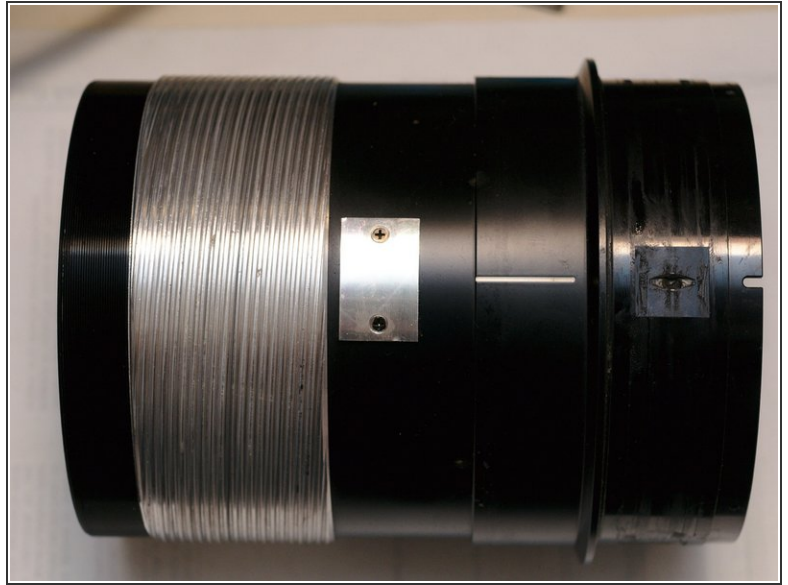
Step 4 — Mark the point!



⚠ READ THIS FIRST! In the following step, rotate slowly, and apply gentle force pulling front and rear apart, and mark the position of separate.

- Rotate the rear half of the lens, towards close-up direction (CW as looking downwards), pass 8m/25 feet mark and continue, while applying gentle force pulling rear part up, until they separate, mark the point.
- When assemble them back, attach from this angle/point.

Step 5



- The front tube, thread on the inner side.
- The rear tube, thread on the outer side.

Step 6



- This is just a partial tear down. This lens is extremely well made, and very very precise.
- Until this point, this is a reasonable "maintenance teardown". And you can do most mirror and lens cleaning and grease replace.
- Putting them back from the point/angle you marked in previous step, the focus scale does not need a calibration.

To reassemble your device, follow these instructions in reverse order.