

INSTRUCTION MANUAL

Orion® 0.85x Reducer-Corrector for “ED” Refractors

#5195, #5196, #5198



 **ORION**®
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The 0.85x Reducer-Correctors were designed specifically for use with selected Orion “ED” refractors. They are intended for photographic use only with digital single-lens reflex (DSLR) cameras.

#5195 0.85x Reducer-Corrector for ED80 (#9895, not the EON 80 #9927). Shortens the focal length from 600mm to 510mm (f/7.5 to f/6.38).

#5196 0.85x Reducer-Corrector for ED100 (#9975). Shortens the focal length from 900mm to 765mm (f/9.0 to f/7.65).

#5198 0.85x Reducer-Corrector for ED120 (#9976 ED120, *not* #9925 EON 120ED). Shortens the focal length from 900mm to 765mm (f/9.0 to f/7.65).

Installing the Reducer-Corrector

1. Extend the focuser drawtube out, as shown in Fig. 1.
2. Rotate the lock ring inward on the focuser drawtube until it stops (Fig. 2). Do not tighten.
3. Screw the Reducer-Corrector onto the drawtube until it stops, and tighten it slightly. There should now be a gap between the edge of the Reducer-Corrector and the lock ring (Fig. 3).
4. Now rotate the lock ring outward (toward the Reducer-Corrector) until it is tight against the Reducer-Corrector (Fig. 4). Then attach the appropriate Wide T-ring (sold separately) for your DSLR camera to the T-threads on the Reducer-Corrector.

NOTE: The Orion 0.85x Reducer-Corrector requires the use of a “wide” T-ring, which utilizes 48mm threads. The Reducer-Corrector is not compatible with standard T-rings. Orion carries Wide T-rings for Canon and Nikon cameras.

5. Now attach your DSLR camera to the Wide T-ring (Fig. 5).
6. To adjust the camera angle to frame the object you want to photograph on the camera chip, loosen the Reducer-Corrector by turning it counterclockwise (from camera side) until the camera is in the position you want. Then tighten the lock ring against the Reducer-Corrector to secure it in place.

You’re now ready to take pictures!

Care and Cleaning

When not in use, keep both thread-on lens caps on the Reducer-Corrector to protect the optics, and store it in a dry place. If dust builds up on the lenses, simply blow it off with a blower bulb or lightly brush it off with a soft camel-hair brush. Avoid touching optical surfaces with your fingers, as skin oil may mar the optical multi-coatings.

To remove fingerprints or smudges from the lens, use photographic-type lens cleaning fluid and lint-free optical lens cleaning tissue. Don’t use household cleaners or eyeglass-type cleaning cloth or wipes, as they often contain undesirable additives like silicone, which don’t work well on precision optics. Place a few drops of fluid on the tissue (not directly on the lens), wipe gently in a circular

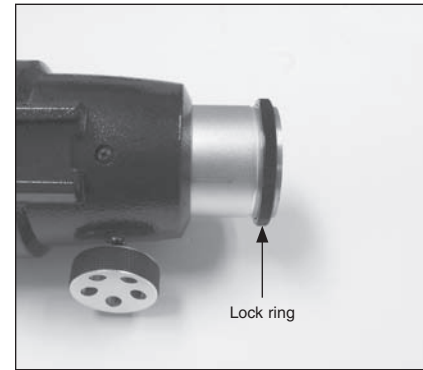


Figure 1. Lock ring on focuser drawtube.

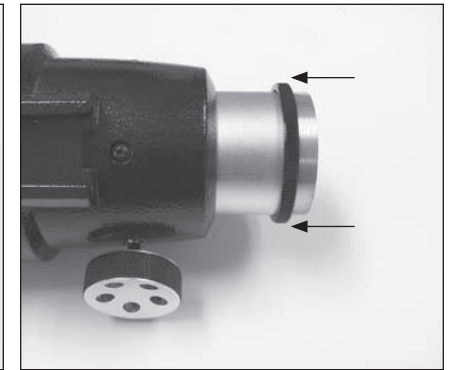


Figure 2. Lock ring positioned as far inward as it will go.

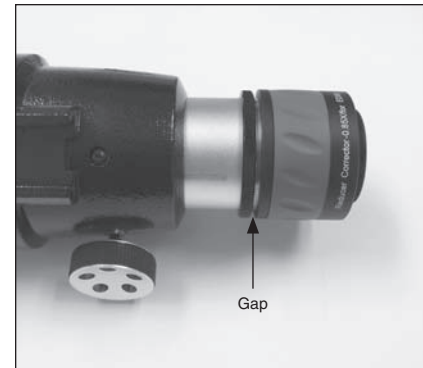


Figure 3. Gap between the Reducer-Corrector and lock ring.

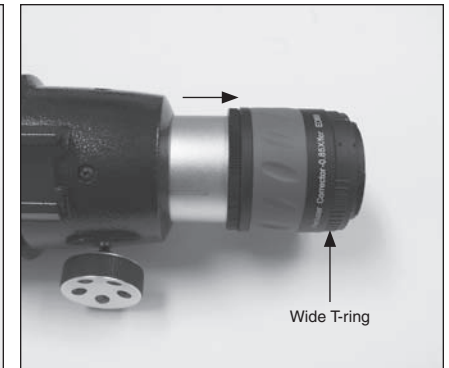


Figure 4. Tighten lock ring against Reducer-Corrector. Then thread on the Wide T-ring for your camera model.



Figure 5. DSLR camera attached to the Reducer-Corrector.

motion, then remove the fluid with a dry tissue or two. Do not “polish” or rub hard when cleaning the lens, as this may scratch it. The tissue may leave fibers on the lens, but they can simply be blown off with a blower bulb.

Never disassemble the lens assembly to clean optical surfaces!

One-Year Limited Warranty

This Orion 0.85x Reducer-Corrector for “ED” Refractors is warranted against defects in materials or workmanship for a period of one year from the date of purchase. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion’s option, any warranted instrument that proves to be defective, provided it is returned postage paid to: Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If the product is not registered, proof of purchase (such as a copy of the original invoice) is required. This warranty does not apply if, in Orion’s judgment, the instrument has been abused, mishandled, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further warranty service information, contact: Customer Service Department, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; (800) 676-1343.

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