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Sky-Watcher S20210

Instruction Manual

SKY-WATCHER EVOSTAR 72ED REDUCER/CORRECTOR ADAPTER

Introduction

The Sky-Watcher Evostar 72ED Reducer/Corrector Adapter (Model S20210) is designed to facilitate the use of the 0.85x focal reducer/corrector, originally intended for the Evostar 80ED, with the Evostar 72ED refractor. This adapter is crucial for astrophotography, as it enables the reducer/corrector to reduce the telescope's focal length, achieve a faster focal ratio, and effectively eliminate edge distortion, ensuring razor-sharp astro-images across the entire field of view. This manual provides essential information for the proper setup, operation, and maintenance of your adapter.

Setup

Proper installation of the Evostar 72ED Reducer/Corrector Adapter is vital for optimal performance. This adapter allows the Evostar 80ED Reducer/Corrector to be securely mounted to your Evostar 72ED telescope.

1. **Prepare the Reducer/Corrector:** Ensure your Evostar 80ED Reducer/Corrector is clean and free of dust or debris.
2. **Attach the Adapter:** Carefully thread the Evostar 72ED Reducer/Corrector Adapter onto the Evostar 80ED Reducer/Corrector. Ensure it is securely fastened but do not overtighten.
3. **Mount to Telescope:** Once the adapter is attached to the reducer/corrector, thread the combined unit onto the focuser of your Sky-Watcher Evostar 72ED refractor. Ensure a snug fit to prevent any movement during imaging.
4. **Secure with Thumbscrews:** If your adapter features thumbscrews, gently tighten them to further secure the assembly to the telescope's focuser, preventing rotation or slippage.



Image: The Sky-Watcher Evostar 72ED Reducer/Corrector Adapter. This black metal adapter features threaded ends for attachment to both the Evostar 80ED Reducer/Corrector and the Evostar 72ED refractor, along with two silver thumbscrews for secure mounting.

Operating Principles

The Evostar 72ED Reducer/Corrector Adapter functions as a critical interface, allowing the 0.85x focal reducer/corrector to perform its intended optical corrections with the Evostar 72ED refractor. When properly installed, the combined unit will:

- **Reduce Focal Length:** Shortens the effective focal length of the Evostar 72ED telescope.
- **Increase Focal Ratio:** Provides a faster focal ratio, allowing for shorter exposure times in astrophotography.
- **Correct Field Curvature:** Eliminates edge distortion and field curvature, ensuring stars appear sharp and round across the entire image frame, which is essential for high-quality astrophotography.

This adapter itself does not contain optical elements; its role is purely mechanical, ensuring precise spacing and alignment for the reducer/corrector to function optimally with the 72ED telescope.

Maintenance

To ensure the longevity and optimal performance of your Evostar 72ED Reducer/Corrector Adapter, follow these maintenance guidelines:

- **Cleaning:** The adapter is a mechanical component. If it becomes dirty, wipe it gently with a clean, dry, lint-free cloth. Avoid using abrasive cleaners or solvents, which could damage the finish.
- **Storage:** Store the adapter in a dry, dust-free environment when not in use. Keep it in its original packaging or a protective case to prevent scratches and impacts.
- **Handling:** Always handle the adapter with clean hands to avoid transferring oils or dirt. Avoid dropping or subjecting it to harsh impacts, which could deform the threads or body.
- **Thread Care:** Periodically inspect the threads for any signs of wear or damage. Keep them clean to ensure smooth

attachment and detachment from other components.

Troubleshooting

If you encounter issues while using the Evostar 72ED Reducer/Corrector Adapter, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Difficulty threading adapter onto reducer/corrector or telescope.	Misalignment or damaged threads.	Ensure components are perfectly aligned before threading. Do not force. Inspect threads for damage; if damaged, contact support.
Image quality issues (e.g., uncorrected field curvature, poor focus).	Adapter not fully seated or incorrect back focus.	Ensure the adapter and reducer/corrector are fully and securely threaded onto the telescope. Verify correct back focus distance for your specific camera and setup, as recommended by the reducer/corrector manufacturer.
Adapter feels loose after attachment.	Not tightened sufficiently or thumbscrews not secured.	Gently tighten the adapter until snug. If present, ensure the thumbscrews are tightened to secure the adapter to the focuser.

Specifications

Feature	Detail
Product Name	Evostar 72ED Rotator Adapter
Model Number	S20210
Product Dimensions	3.15 x 3.35 x 1.18 inches (7.99 x 8.51 x 3.00 cm)
Item Weight	3.2 ounces (0.09 kg)
Compatible Devices	Evostar 80ED Focal Reducer/Corrector (for use with Evostar 72ED Refractor)
Manufacturer	Sky Watcher

Warranty Information

Sky-Watcher products typically come with a limited warranty covering defects in materials and workmanship. For specific warranty terms, duration, and claim procedures, please refer to the warranty card included with your original purchase or visit the official Sky-Watcher website. Please retain your proof of purchase for any warranty claims.

Customer Support

For technical assistance, product inquiries, or support regarding your Sky-Watcher Evostar 72ED Reducer/Corrector Adapter, please contact Sky-Watcher customer service. You can often find contact information, FAQs, and additional resources on the official Sky-Watcher website or through the retailer where you purchased the product. Visit the [Sky-Watcher Store on Amazon](#) for more information and product listings.

