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› **BRESSER Counterweight 2.0 kg for EXOS-1/EQ4 Instruction Manual**

BRESSER 4964400

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Model: 4964400

1. PRODUCT OVERVIEW

The BRESSER 2.0 kg Counterweight is designed to provide essential balance for astronomical mounts, specifically the EXOS-1 and EXOS-2 models, as well as other mounts featuring a 20mm diameter counterweight rod. Proper balancing is crucial for stable tracking and imaging with telescopes and other mounted equipment.



Figure 1: BRESSER 2.0 kg Counterweight. This image shows the cylindrical counterweight with a central bore for the rod and a side-mounted tightening screw. A red line is visible around the circumference.

2. SAFETY INFORMATION

- Always handle the counterweight with care due to its mass. Dropping it can cause injury or damage to equipment.
- Ensure the counterweight is securely fastened to the counterweight rod before operating the mount. Loose counterweights can shift unexpectedly.
- When adjusting the counterweight position, support the telescope or mounted equipment to prevent sudden movements.
- Keep out of reach of children.

3. PACKAGE CONTENTS

The package includes the following item:

- 1x BRESSER Counterweight 2.0 kg

4. SETUP AND INSTALLATION

1. **Identify the Counterweight Rod:** Locate the counterweight rod on your astronomical mount. Ensure its diameter is approximately 20mm for compatibility with this counterweight.
2. **Slide the Counterweight:** Carefully slide the BRESSER 2.0 kg Counterweight onto the counterweight rod. The central bore of the counterweight is designed to fit over the rod.
3. **Secure the Counterweight:** Once the counterweight is in position, tighten the locking screw located on the side of the counterweight. This screw presses against the rod, securing the counterweight in place. Ensure it is tightened firmly but do not overtighten.
4. **Initial Balance Check:** With the counterweight loosely secured, move it along the rod to find an approximate balance point for your mounted equipment (e.g., telescope, camera). Refer to the "Operating" section for detailed balancing instructions.

Note: Some users have reported that the tightening mechanism may consist of a separate pin and screw. Exercise caution to avoid losing the internal pin when loosening or removing the counterweight.

5. OPERATION: BALANCING YOUR MOUNT

Proper balancing of your astronomical mount is essential for smooth tracking, reduced strain on the mount's motors, and improved imaging performance. The counterweight helps achieve this balance.

1. **Release Clutches:** Loosen the Right Ascension (RA) and Declination (DEC) clutches on your mount so that the telescope and counterweight assembly can move freely.
2. **Balance in Declination (DEC):** Adjust the position of your telescope in its saddle until it remains stationary when the DEC clutch is loose. Tighten the DEC clutch once balanced.
3. **Balance in Right Ascension (RA):** With the DEC axis balanced and locked, rotate the telescope and counterweight assembly to a horizontal position. Loosen the RA clutch.
4. **Adjust Counterweight Position:** Slide the BRESSER counterweight along the counterweight rod until the telescope and counterweight assembly remains stationary in any horizontal position. If the telescope side drops, move the counterweight further away from the mount. If the counterweight side drops, move it closer to the mount.
5. **Secure Counterweight:** Once balanced, firmly tighten the locking screw on the counterweight.
6. **Verify Balance:** Gently push the telescope assembly in both RA and DEC axes. It should move smoothly with minimal effort and remain in position when released.

Note: For optimal performance, a slightly counterweight-heavy balance is sometimes preferred for worm gear mounts to ensure constant pressure on the gear teeth.

6. MAINTENANCE

- **Cleaning:** Wipe the counterweight with a soft, dry cloth to remove dust and dirt. Avoid abrasive cleaners or solvents that could damage the finish.
- **Storage:** Store the counterweight in a dry environment when not in use to prevent corrosion.
- **Inspection:** Periodically inspect the counterweight and its locking screw for any signs of wear or damage. Ensure the screw mechanism operates smoothly.

7. TROUBLESHOOTING

Problem: Counterweight does not tighten securely.

Solution: Ensure the counterweight rod is clean and free of obstructions. Verify that the internal pin (if present in your model) is correctly seated within the tightening screw mechanism. If the pin is missing or damaged, the screw may not exert enough pressure. Contact BRESSER support for replacement parts if necessary.

Problem: Difficulty achieving proper balance.

Solution: Re-evaluate the weight distribution of your mounted equipment. Ensure all accessories (eyepieces, cameras, finderscopes) are attached as they would be during observation. If the 2.0 kg counterweight is insufficient, consider adding additional counterweights or a heavier counterweight if your mount supports it.

Problem: Counterweight paint is chipped.

Solution: Minor paint chips are typically cosmetic and do not affect the functionality of the counterweight. If the chipping is extensive or exposes bare metal, you may consider applying a rust-inhibiting paint to protect the surface, especially if used in humid environments.

8. SPECIFICATIONS

Weight:	2.0 kg (4.45 pounds)
Compatible Rod Diameter:	20 mm
Product Dimensions:	Approximately 4.72 x 5.12 x 2.36 inches (12 x 13 x 6 cm)
Model Number:	4964400
Brand:	BRESSER

9. WARRANTY AND SUPPORT

9.1. Warranty Information

For detailed warranty information regarding your BRESSER Counterweight, please refer to the warranty card included with your product or visit the official BRESSER website. Warranty terms and conditions may vary by region and purchase date.

9.2. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your BRESSER Counterweight, please contact BRESSER customer service. Contact details can typically be found on the BRESSER official website or in the product packaging.

You can visit the BRESSER Store for more information: [BRESSER Store on Amazon](#)