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Bushnell RT4124BS11

Bushnell 4-12x40 Trophy XLT Riflescope Instruction Manual

Model: RT4124BS11 | Brand: Bushnell

1. Introduction

This manual provides comprehensive instructions for the proper setup, operation, maintenance, and troubleshooting of your Bushnell 4-12x40 Trophy XLT Riflescope. Designed for precision and durability, this riflescope features a versatile 4-12x magnification range and a 40mm objective lens, making it suitable for various hunting and shooting applications. Please read this manual thoroughly before using your riflescope to ensure optimal performance and safety.

2. Key Features

- **Magnification:** Variable 4-12x power for adaptable targeting at different distances.
- **Objective Lens:** 40mm objective lens gathers ample light for clear images.
- **Reticle:** Features the DOA (Dead On Accurate) Quick Ballistic Reticle, designed for rapid and precise aiming with various ammunition loads. This reticle provides multiple aiming points for ballistic drop compensation.
- **Turrets:** Capped, finger-adjustable turrets with 1/4 MOA (Minute of Angle) click adjustments for windage and elevation.
- **Tube Diameter:** Robust 30mm main tube construction for enhanced durability and light transmission.
- **Optical Coatings:** Fully multi-coated optics for bright, high-contrast images.
- **Construction:** Nitrogen purged for fogproof performance and O-ring sealed for waterproof integrity.





Figure 2.1: Front view of the Bushnell 4-12x40 Trophy XLT Riflescope, showcasing the objective lens and magnification ring.



Figure 2.2: Angled view of the Bushnell 4-12x40 Trophy XLT Riflescope, highlighting the turrets and eyepiece.

3. Setup

3.1 Mounting the Riflescope

Proper mounting is crucial for accuracy and consistent performance. Use high-quality rings and bases compatible with your firearm and the riflescope's 30mm tube. Ensure the riflescope is securely mounted to prevent movement under recoil. Position the riflescope to achieve optimal eye relief, which is the distance between your eye and the eyepiece when the full field of view is visible. This prevents recoil-induced injury and ensures a clear sight picture.

3.2 Initial Zeroing

Before live firing, it is recommended to bore-sight your riflescope. This can be done using a bore sighter or by visually aligning the bore with the target at a short distance (e.g., 25 yards). Once bore-sighted, proceed to a shooting range for fine-tuning. Zero your riflescope at a standard distance, typically 100 yards, by firing groups and adjusting the windage and elevation turrets. Each click of the turret adjusts the point of impact by 1/4 MOA at 100 yards.
To adjust turrets:

1. Remove the protective caps from the windage and elevation turrets.

2. Turn the elevation turret (top) to adjust vertical impact. Turn the windage turret (side) to adjust horizontal impact.
3. Turn the turret in the direction indicated by the arrow to move the point of impact. For example, turning "UP" moves the impact up, and "R" moves it right.
4. Once zeroed, replace the protective caps.

4. Operating the Riflescope

4.1 Adjusting Magnification

The magnification ring is located near the eyepiece. Rotate this ring to change the magnification from 4x to 12x. Adjust to your desired power setting based on target distance and environmental conditions.

4.2 Focusing the Eyepiece

To ensure the reticle is sharp and clear for your eye, hold the riflescope up to a clear, bright background (like the sky) and rotate the eyepiece until the reticle appears crisp. This adjustment is personal and should be done before each use or if different users operate the scope.

4.3 Utilizing the DOA Quick Ballistic Reticle

The DOA Quick Ballistic Reticle is designed to provide accurate holdover points for various distances and ammunition types. It features multiple aiming points below the main crosshair, typically calibrated for 200, 300, 400, and 500 yards based on a 100-yard zero and common magnum loads. For precise ballistic solutions tailored to your specific ammunition and environmental conditions, it is highly recommended to use the Bushnell Ballistic App. This application allows you to input your rifle, ammunition, and environmental data to generate precise aiming solutions for your DOA reticle.
The reticle provides five reference points for ballistic compensation. The specific yardage for each point will vary depending on the caliber and distance. Always test your preferred ammunition at all ranges to verify performance.

5. Maintenance

5.1 Cleaning Lenses

Use the provided lens cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses. Gently brush away any dust or debris. For smudges or fingerprints, breathe lightly on the lens to fog it, then gently wipe with the cleaning cloth. Avoid using harsh chemicals or abrasive materials, as they can damage the lens coatings.

5.2 Cleaning Exterior

Wipe the exterior of the riflescope with a soft, clean cloth to remove dirt, dust, or moisture. For stubborn grime, a slightly damp cloth can be used, followed by a dry wipe. Ensure all moisture is removed before storage.

5.3 Storage

Store your riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, consider using a desiccant packet (like the one included in the original packaging) to absorb moisture and prevent fogging or mildew.

6. Troubleshooting

6.1 Blurry Image

- **Eyepiece Focus:** Ensure the eyepiece is properly focused for your vision (refer to Section 4.2).

- **Environmental Factors:** Extreme temperature changes can cause internal fogging. Allow the scope to acclimate to the ambient temperature.
- **Lens Cleanliness:** Check for dirt, dust, or smudges on the objective and ocular lenses (refer to Section 5.1).

6.2 Not Holding Zero

- **Mounting Issues:** The most common cause. Ensure rings and bases are securely tightened to the rifle and the riflescope. Check for any movement.
- **Recoil:** High recoil firearms can sometimes loosen mounts or affect internal components over time. Regularly inspect your mounting system.
- **Ammunition Consistency:** Inconsistent ammunition can lead to varying points of impact. Use high-quality, consistent ammunition for best results.
- **Barrel/Action Issues:** Less common, but issues with the firearm itself (e.g., loose barrel, worn crown) can affect accuracy.

6.3 Reticle Appears Crooked

- **Mounting Alignment:** Ensure the riflescope is level when mounted. Use a scope leveling tool during installation.

7. Specifications

Feature	Detail
Brand	Bushnell
Model Name	RT4124BS11
Magnification (Minimum)	4x
Magnification (Maximum)	12x
Objective Lens Diameter	40 mm
Tube Diameter	30 mm
Reticle Type	DOA (Quick Ballistic Reticle)
Click Value	1/4 MOA
Eye Relief	3.3 Inches
Material	Blend
Color	Multi (Black)
Mounting Type	Cantilever Mount (Note: Riflescope itself is not a cantilever mount, but compatible with)
UPC	029757007155

8. Warranty and Support

Bushnell products are manufactured to the highest standards and are backed by a limited warranty. For detailed warranty information, product registration, or technical support, please visit the official Bushnell website or contact their customer service department. Keep your proof of purchase for warranty claims.

Bushnell Official Website: www.bushnell.com

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