

Bear Archery AC96B2B2201

Constrictor Pro Crossbow User Manual

Model: AC96B2B2201

Brand: Bear Archery

1. INTRODUCTION AND OVERVIEW

The Constrictor Pro crossbow is engineered for powerful performance within a compact design, ideal for hunting in confined spaces. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your crossbow.

Key features of the Constrictor Pro include:

- Compact dimensions: Measures 8.125 inches wide when cocked and 12.0625 inches uncocked.
- High velocity: Fires bolts at speeds up to 400 FPS with a 200-pound draw weight.
- Safety mechanism: Equipped with an anti-dry fire mechanism to prevent accidental firing without an arrow.
- Ready-to-hunt package: Includes an Illuminated Reticle/speed adjustable scope, 3 BearX TrueX Max arrows, a 4-arrow top-mount quiver, sling, manual cocking sled, and arrow lube/string wax.



Figure 1: The Constrictor Pro Crossbow, showcasing its compact design and included accessories.

2. SETUP AND ASSEMBLY

Before using your Constrictor Pro crossbow, ensure all components are present and properly assembled. Refer to the included parts list for verification.

2.1 Unboxing and Component Identification

Carefully remove all items from the packaging. Identify the main crossbow body, scope, quiver, sling, manual cocking sled, arrows, rail lube, and string wax.

2.2 Scope Installation

1. Attach the Illuminated Reticle/speed adjustable scope to the picatinny rail on top of the crossbow.
2. Secure the scope mounts firmly using the provided tools. Ensure the scope is level and aligned.
3. Test the illumination function of the scope. If the illumination does not work, refer to the troubleshooting section or contact customer support.



Figure 2: Side view of the crossbow, illustrating the mounted scope and quiver.

2.3 Quiver and Sling Attachment

- Attach the 4-arrow top-mount quiver to the designated mounting point. The quiver features a 360-degree pivot, allowing for various orientations.
- Secure the sling to the attachment points on the crossbow for comfortable carrying.



Figure 3: Another perspective of the crossbow, highlighting the sling attachment points.

3. OPERATING INSTRUCTIONS

Proper operation is crucial for safety and performance. Always follow these instructions carefully.

3.1 Safety First

- Always point the crossbow in a safe direction.
- Keep fingers and clothing clear of the string and cables.
- Ensure the anti-dry fire mechanism is engaged before cocking. Never dry fire the crossbow (firing without an arrow).
- Use only compatible arrows: 20-22 inch TrueX bolts, weighing between 375 and 425 grains.

3.2 Cocking the Crossbow

1. Place the manual cocking sled on the string.
2. Engage the sled with the string and pull back evenly until the string locks into the trigger mechanism.
3. Ensure the safety is engaged automatically upon cocking.

3.3 Loading an Arrow

1. With the crossbow cocked and safety engaged, place a compatible arrow onto the rail.
2. Ensure the arrow nock is fully seated against the string and the arrow is firmly against the retention spring.
3. Verify the arrow is correctly oriented for the nock type.





Figure 4: Top view, showing proper arrow placement on the rail and in the quiver.

3.4 Aiming and Firing

1. Aim at your target using the illuminated reticle scope. Adjust the scope for speed and distance as needed.
2. When ready to fire, disengage the safety.
3. Squeeze the trigger smoothly to release the string and fire the arrow.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your crossbow.

4.1 String and Cable Care

- Apply string wax to the crossbow string and cables regularly, especially after every few uses or before extended storage. This protects them from wear and moisture.
- Inspect the string and cables for any signs of fraying, cuts, or damage before each use. Damaged strings or cables must be replaced immediately by a qualified technician.

4.2 Rail Lubrication

- Apply rail lube to the crossbow rail periodically to reduce friction and wear on the string and arrow.

4.3 General Cleaning and Storage

- Wipe down the crossbow with a clean, dry cloth after each use to remove dirt and moisture.
- Store the crossbow in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the crossbow is uncocked before long-term storage to relieve tension on the limbs and string.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Constrictor Pro crossbow.

5.1 Scope Illumination Not Working

- **Check Battery:** Ensure the scope battery is correctly installed and has sufficient charge. Replace if necessary.
- **Knob Position:** Verify the illumination knob is turned to an "ON" setting and not between settings.
- **Contact Support:** If the issue persists after checking the battery and knob, the scope may be faulty. Contact Bear Archery customer service for assistance.

5.2 String or Limb Damage (e.g., Fraying, Splintering)

- **Immediate Action:** **STOP USE IMMEDIATELY.** Do not attempt to cock or fire the crossbow if the string, cables, or limbs show any signs of damage.
- **Professional Repair:** String or limb damage can be dangerous. This type of repair requires specialized tools and expertise. Contact a certified crossbow technician or Bear Archery customer service for repair or replacement.
- **Preventative Measures:** Ensure proper string waxing and rail lubrication. Always use the manual cocking sled for even tension. Avoid dry firing.

5.3 Difficulty Finding Compatible Arrows

- **Arrow Specifications:** The Constrictor Pro requires 20-22 inch TrueX bolts with a weight range of 375 to 425 grains.
- **Manufacturer Recommendations:** Bear Archery recommends BearX TrueX Max arrows for optimal performance. Check with authorized dealers or the Bear Archery website for availability.

6. SPECIFICATIONS

Detailed technical specifications for the Constrictor Pro Crossbow.

Feature	Specification
Model Name	Constrictor Pro
Brand	Bear Archery
Color	True Timber Strata
Material	Aluminum
Item Weight	8.5 Pounds
Hand Orientation	Ambidextrous
Archery Draw Weight	200 Pounds
Velocity	400 FPS
Cocked Width	8.125 inches
Uncocked Width	12.0625 inches
UPC	754806351018
Part Number	AC96B2B2201

7. WARRANTY AND SUPPORT

Your Constrictor Pro Crossbow is backed by a manufacturer's warranty and dedicated customer support.

7.1 Warranty Information

The Constrictor Pro Crossbow comes with a **Limited Lifetime Warranty**. This warranty covers manufacturing defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full details and terms, refer to the warranty card included with your product or visit the official Bear Archery website.

7.2 Customer Support

For technical assistance, parts, or warranty inquiries, please contact Bear Archery customer service directly. You can find contact information and additional resources on their official brand store:

[Visit the Bear Archery Store on Amazon](#)

When contacting support, please have your model number (AC96B2B2201) and purchase date ready.

