Carbon Express Maxima RED (350 & 400 Spine), 507527-SSI

Carbon Express Maxima RED Carbon Arrow Shaft User Manual

Models: 350 & 400 Spine (Part Number: 507527-SSI)

Introduction

The Carbon Express Maxima RED Carbon Arrow Shaft represents a significant advancement in arrow technology, specifically designed to optimize broadhead flight through precise Dynamic Spine control. This manual provides essential information for the proper setup, use, and maintenance of your Maxima RED arrow shafts to ensure consistent performance and durability.



Image: A set of Carbon Express Maxima RED arrow shafts, showcasing their red and black design, along with the included nocks and inserts.

Key Features

- **Dynamic Spine Control:** Patented hi-tech carbon material construction manages Dynamic Spine by containing arrow flex to the "RED ZONE," improving broadhead flight consistency.
- **Launchpad Precision Nock:** Standard on all Maxima RED arrows and shafts, these nocks ensure a controlled arrow

release, better shaft alignment, and consistent accuracy.

- **Real Straightness:** Each shaft is laser-checked for straightness to ± 0.0025-inches, ensuring exceptional precision.
- **Matched Set:** Arrows are sorted and matched by weight and spine for best-in-class consistency, crucial for tight grouping.
- **Bulldog Nock Collar:** Provides added strength and durability to the nock end of the arrow shaft.
- **Buff Tuff:** A durable finish applied to the arrow shaft for enhanced longevity.
- **K-360 and Diamond Weave:** Advanced carbon construction technologies contributing to the arrow's strength and performance.

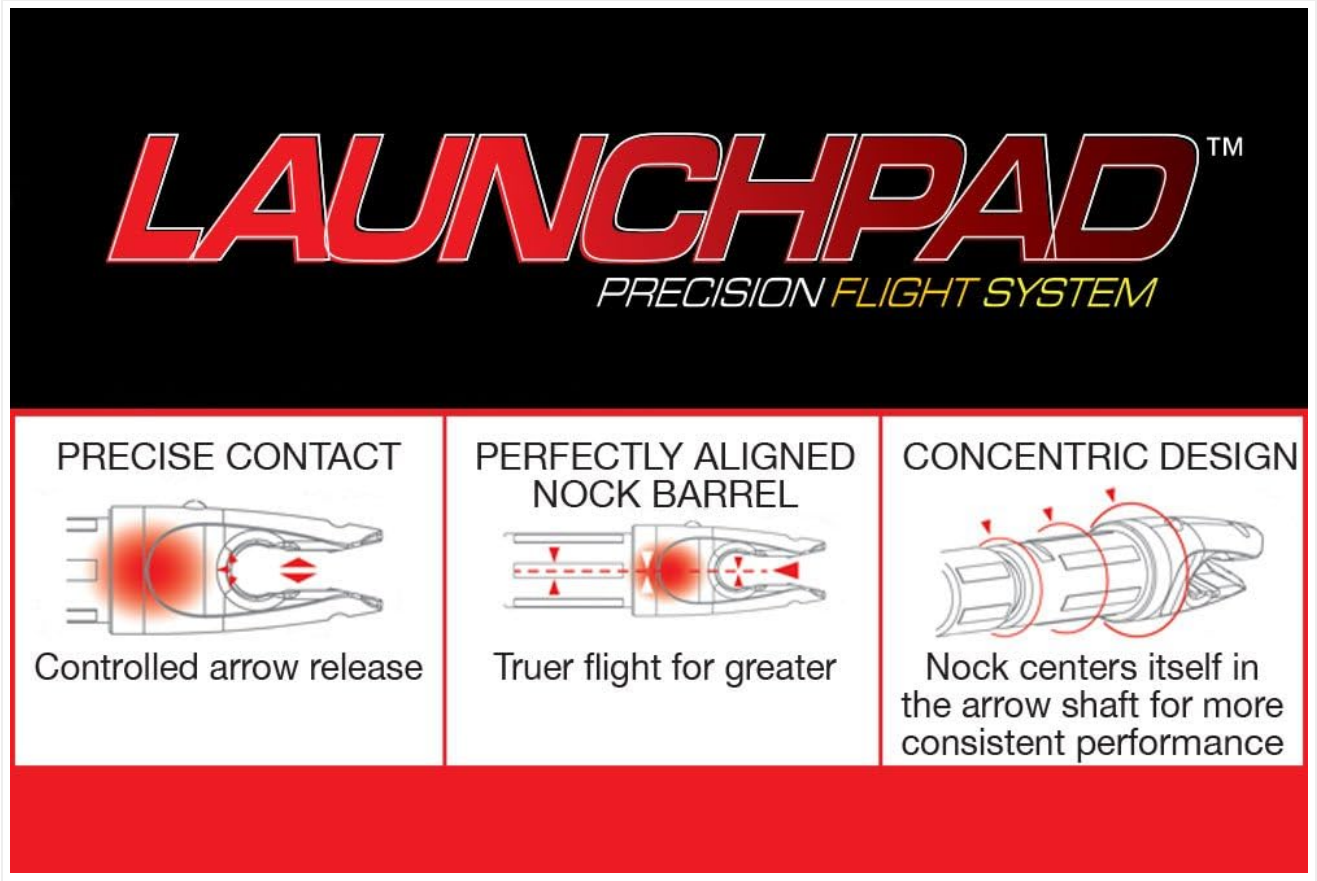


Image: A detailed diagram explaining the "Launchpad Precision Flight System," highlighting how the nock ensures precise contact, perfect alignment, and a concentric design for consistent arrow release.



Image: Visual representations of the K-360 and Diamond Weave carbon construction technologies, illustrating the advanced material design of the arrow shafts.



Image: Close-up views of the arrow shaft, highlighting the Bulldog Nock Collar for added strength and the Buff Tuff finish for enhanced durability.

Setup

1. Selecting the Correct Spine

The Maxima RED arrows are available in 350 and 400 spine sizes. Selecting the correct spine is critical for arrow flight and accuracy. Refer to the spine chart below to determine the appropriate spine based on your adjusted bow draw weight and desired arrow length. For the best fit, it is recommended to visit the Carbon Express website to calculate your adjusted bow weight.

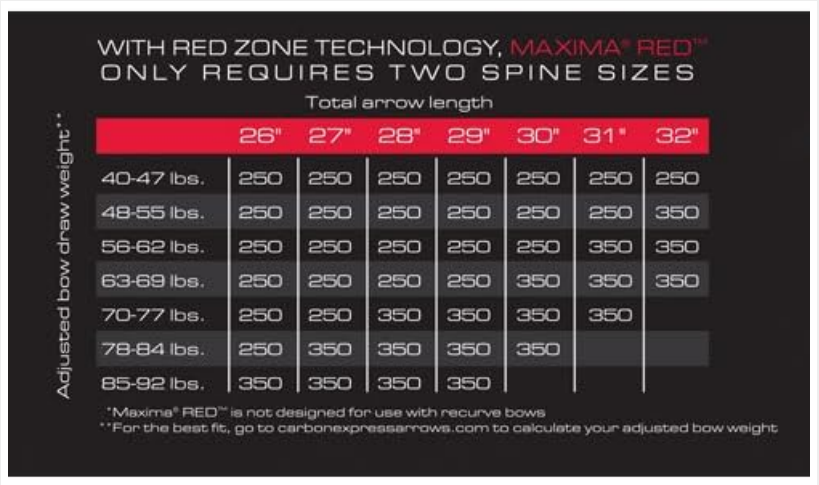


Image: A spine chart for Maxima RED arrows, indicating recommended spine sizes (250 and 350) based on adjusted bow draw weight (in pounds) and total arrow length (in inches). Note: Maxima RED is not designed for use with recurve bows.

2. Preparing the Arrow Shafts

1. **Cutting to Length:** If necessary, cut the arrow shafts to your desired length using a high-speed arrow saw to ensure a clean, square cut.
2. **Insert Installation:** Clean the inside of the shaft where the insert will be placed. Apply a small amount of hot melt adhesive or appropriate arrow insert glue to the insert and carefully push it into the shaft until fully seated. Allow sufficient time for the adhesive to cure.
3. **Nock Installation:** The Maxima RED shafts come with Launchpad Precision Nocks. Ensure the nock is securely seated in the shaft. The nock should align with the fletching for proper arrow flight.
4. **Fletching:** Apply fletching (vanes or feathers) according to your preference and bow setup. Ensure proper fletching

alignment for stable flight.

Operating (Usage)

The Maxima RED carbon arrow shafts are designed for optimal performance with compound bows, particularly when using broadheads. Their Dynamic Spine Control technology minimizes arrow flex in flight, leading to tighter groups and improved accuracy.

- Always inspect each arrow for damage (cracks, splinters, bends) before shooting. Do not shoot damaged arrows.
- Ensure your bow is properly tuned for your chosen arrow spine and weight.
- Confirm nock orientation is correct for your bowstring and release.
- These arrows are specifically engineered for hunting applications, especially with broadheads.
- *Note: Maxima RED arrows are not designed for use with recurve bows.*

Maintenance

- **Regular Inspection:** After each shooting session, carefully inspect each arrow shaft for any signs of damage, including cracks, splinters, or delamination. Pay close attention to the areas near the nock and insert.
- **Cleaning:** Wipe down arrow shafts with a damp cloth to remove dirt, mud, or residue. Avoid harsh chemicals that could damage the carbon material or finish.
- **Storage:** Store arrows in a cool, dry place, preferably in an arrow case or quiver, to protect them from physical damage and extreme temperatures. Avoid prolonged exposure to direct sunlight.
- **Nock and Fletching Check:** Periodically check that nocks are securely seated and fletching is intact and properly adhered. Replace damaged nocks or fletching as needed.

Troubleshooting

- **Inconsistent Arrow Flight:**
  - Verify that the arrow spine matches your bow's draw weight and length.
  - Check for damaged fletching or loose nocks.
  - Ensure broadheads are properly installed and aligned.
  - Confirm your bow is properly tuned.
- **Arrow Damage (Cracks/Splinters):**
  - Immediately discontinue use of any damaged arrow. Shooting a damaged carbon arrow can be dangerous.
  - Damaged arrows should be discarded and replaced.
- **Nock Issues (Loose/Broken):**
  - Replace loose or broken nocks with new Launchpad Precision Nocks.
  - Ensure new nocks are fully seated and oriented correctly.

Specifications

Attribute	Value
Brand	Carbon Express

Attribute	Value
Model Name	Maxima RED Carbon Arrow Shaft
Part Number	507527-SSI
Material	Carbon
Color	Red
Available Spine Sizes	350 (9.07 GPI, .350 spine), 400 (8.11 GPI, .400 spine)
Straightness Tolerance	± 0.0025 inches
Weight Tolerance	± 1.0 grain
Shaft Length	31.5 inches
Diameter (350-Size)	0.300 inches
Suggested Users	Unisex-adult
Sport Type	Hunting

Warranty

For detailed warranty information regarding your Carbon Express Maxima RED Carbon Arrow Shafts, please refer to the manufacturer's official warranty policy. This information is typically available on the Carbon Express website or included with your product packaging.

Support

Should you require further assistance, have questions about product compatibility, or need technical support, please contact Carbon Express directly through their official channels.

- **Official Website:** Visit the Carbon Express Store on Amazon or their main corporate website for product information, FAQs, and contact details.
- **Customer Service:** Refer to the contact information provided on the Carbon Express website for customer service inquiries.

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