



RAVIN[®]

CROSSBOWS

R SERIES

R9/R15 INSTRUCTION MANUAL

10.2017



STOP

Use of non-Ravin components and accessories, including non-Ravin arrows and nocks or non-Ravin strings and cables, may cause the system to not operate as designed, potentially resulting in an unsafe condition that could lead to serious injury or death.

This Manual should always accompany this Ravin® Crossbow and be transferred with it upon change of ownership or when presented to another person. A copy of this Manual and any updates are available for free at www.ravincrossbows.com

WARNING

Crossbow Safety Basics

ALWAYS keep the operating manual with the crossbow

ALWAYS keep your crossbow pointed in a safe direction

ALWAYS keep your finger off the trigger until ready to shoot

ALWAYS keep your hands and fingers out of the bowstring path

ALWAYS know your target, your line of fire, and what is beyond

ALWAYS use only components and accessories recommended for your model crossbow, including arrows nocks, strings and cables.

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SECTION 1 – WHY RAVIN®?

The world has never seen a crossbow like the Ravin®. Ravin® R Series Crossbows are designed from the ground up to provide unparalleled downrange accuracy, all in the most compact design available. Ravin® Crossbows hold groups comparable to a rifle at 100 yards. The entire Ravin® Crossbow benefits from Ravin's patent pending Helicoil® technology, which spirals the cables away from the cams, balances the load on the limbs, reduces vibration and maintains perfectly level cam rotation to guide the free floating arrow.

Ravin® patents: www.ravincrossbows.com

SECTION 2 – GENERAL SAFETY INSTRUCTIONS

Your new Ravin® Crossbow is a dangerous and deadly weapon that is designed for hunting and target shooting only. Use for any other purposes can cause serious injury or death.

Whether you are an experienced crossbow shooter or have never handled one before, **CAREFULLY READ THE ENTIRE MANUAL** and its warnings before using your Ravin® Crossbow. It explains your Ravin® Crossbow's operation, handling and warns of the potential danger, including property damage, serious personal injury or death that can result from using it unsafely. We want you to shoot your Ravin® Crossbow safely.

Your safety and the safety of others requires that you always remain aware of the danger inherent in handling your Ravin® Crossbow. You are responsible for safely operating your Ravin® Crossbow.

Your Ravin® Crossbow is a precision weapon, engineered to work with the tolerances and designs of genuine Ravin® components and accessories (including, arrows, nocks, bowstrings and cables). In order to safely achieve the potential of your Ravin® Crossbow it is essential that you use only Ravin® components and accessories. Use of non-Ravin® components and accessories will degrade the performance of your bow and may cause the system to not operate as designed, potentially resulting in an unsafe condition that could lead to serious injury or death.

Product warranty registration is for your safety and convenience. Unless you register your product, we will be unable to send you important updates about your Ravin® Crossbow. Please register your Ravin® Crossbow online at: www.ravincrossbows.com/support/register.

DANGER

Serious injury will result from discharging your Ravin® Crossbow with any part of your body in the release path of the bowstring. To avoid possible finger amputation, keep fingers out of the bowstring path and below the finger guard at all times.

WARNING

To minimize risk of property damage, death or serious injury:

- Do not remove, modify or deactivate the safety features on your Ravin® Crossbow or any of its parts or accessories.
- Do not use your Ravin® Crossbow for any purpose other than hunting or target shooting.
- Use only Ravin® components and accessories designed to work with the tolerances of your Ravin® Crossbow.
- Follow the safety advice and instructions in this manual.
- Wear safety glasses when handling or using your Ravin® Crossbow.
- Keep your fingers below the finger guard at all times.
- Unload and uncock before transporting or performing maintenance on your Ravin® Crossbow.
- Store your Ravin® Crossbow in a locked cabinet or safe, well beyond the reach of children.
- Do not rely totally on any mechanical safety mechanism. Only safe handling habits will ensure the safe use of your Ravin® Crossbow.
- Handle your Ravin® Crossbow carefully, especially when cocked and loaded.
- Always point your crossbow in a safe direction and never point your crossbow in the direction of another person.

⚠ CAUTION

To insure that all users of your Ravin® Crossbow follow the safety advice and instructions in this manual, keep this manual with your Ravin® Crossbow.

NOTICE

The warranty for your Ravin® Crossbow is void if any of the following occur:

- The instructions in the manual are not followed.
- Your Ravin® Crossbow or any of its parts or accessories are modified from their original condition.
- Damage is caused from abuse or neglect.
- Damage is caused by dry firing or by using underweight arrows.
- Use of arrows, nocks, strings or cables other than genuine Ravin® components.
- Your Ravin® Crossbow is disassembled.
- Use of replacement parts not approved by the manufacturer.
- Damage to the scope from over-tightening the mounting rings.
- Use of fixed-blade broadheads with a maximum diameter greater than 1 5/8".

Regular inspection and maintenance will extend the life of your Ravin® Crossbow.

1. General: Check for worn or loose parts.

2. Strings & Cables: Immediately replace worn or damaged strings and cables. Care and maintenance of bowstrings, cables and center servings are particularly important, as improperly maintained strings could break and/or cause a dry fire event in the crossbow. Use only Ravin® approved strings and cables. We recommend changing the strings and cables at least every two years or 400 shots, whichever occurs first, or sooner if wear or damage is visible. Use of non-Ravin® strings and cables, or firing your Ravin® Crossbow with worn, damaged or modified strings and cables may cause the trigger and anti-dry fire system to not operate as designed, potentially resulting in an unsafe condition that could lead to property damage, serious injury or death. **NEVER USE NON-RAVIN® STRINGS AND CABLES ON YOUR RAVIN® CROSSBOW.**

3. Center Serving: The Ravin® Clip-on nock may not properly engage with the center serving if it is worn, damaged or separated, potentially resulting in an unsafe condition that could lead to serious injury or death. Firing your Ravin® Crossbow with worn or damaged center serving may introduce gaps in the fit of the nock on the bowstring, causing the trigger and anti-dry fire system to not operate as designed. Replace the strings and cables if the center serving is worn, damaged or separated. **DO NOT RE-SERVE OLD BOWSTRINGS.** Ravin® Clip-on nocks are designed for use only with the genuine Ravin® bowstrings and may not operate correctly with aftermarket center serving. Figures below shows examples of worn, damaged or separate center servings that should be replaced.



Examples of worn, damaged or separated center serving strings

- 4. String and Center Servicing:** To extend the life of your servicing, apply a **non-wax** lubricant along the entire length of serving and allow to dry. Lubricant can be applied once a year and prior to hunting in cold weather. A suitable **non-wax** lubricant is Ravin® Serving Fluid or Scorpion Venom™ Polymeric Bowstring Fluid. **DO NOT WAX THE STRING OR CENTER SERVING.** This can cause a buildup of wax in the trigger mechanism or cams, leading to a possible malfunction. When bowstring wax freezes it acts an adhesive. If wax has gotten into the trigger assembly, return your Ravin® Crossbow to our service department for service.



- 5. Cold Weather Operation:** Apply a Ravin® - approved **non-wax** lubricant to the center serving of the bowstring before operating your Ravin® Crossbow. A suitable **non-wax** lubricant is Ravin® Serving Fluid or Scorpion Venom™ Polymeric Bowstring Fluid.
- 6. Trigger Assembly:** Do not lubricate the internal components of the trigger assembly. Lubricants can cause contamination to accumulate in the trigger assembly that can lead to trigger malfunction. If wax has gotten into the trigger assembly, return your Ravin® Crossbow to our service department for service.
- 7. Cocking Strap:** Return your Ravin® Crossbow to our Service Department to replace a damaged or worn cocking strap.
- 8. Arrow Rest:** If the rollers on the arrow rest become damaged or worn, the entire arrow rest must be replaced.
- 9. Storage:** Store your Ravin® Crossbow in a locked cabinet or safe located in a cool and dry location. Do expose your Ravin® Crossbow to extreme heat or cold.
- 10. Service:** To obtain service please contact our Service Department at:

Ravin® Crossbow, LLC
3535 Tower Ave., Superior, WI 54880
Phone: 715-718-3574
rvnservice@velocity-outdoor.com

SECTION 3 – MOUNTING THE SCOPE, QUIVER AND COCKING HANDLE

A. Mounting the Scope

The scope is specifically designed for your Ravin® Crossbow. While the dovetail scopemount rail will accept a variety of crossbow scopes, accuracy may be degraded by using a crossbow scope not matched to your Ravin® Crossbow.

We highly recommended that you have your scope mounted at your local pro shop. If you elect to mount the scope yourself, please use the following procedure.

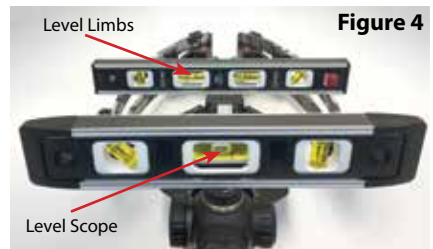
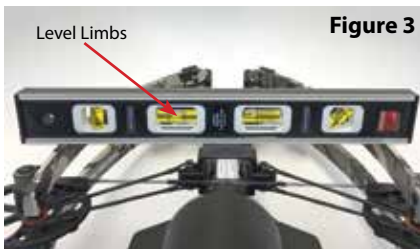
1. Attach the bottom rings on the rail approximately in the positions shown, taking into account proper eye relief of approximately 2"- 3" from your eye to the eyepiece when holding your Ravin® Crossbow in a shooting position (Figure 1). Lightly snug up the screws on the bottom rings so you can still adjust them on the rail.



2. Lay the scope into the bottom rings. Place the top rings on the bottom rings so the scope is surrounded (Figure 2). Lightly snug up the screws on the top rings so you can still freely move the scope in the rings.

3. Before tightening the rings, look through the scope in your normal shooting position. Adjust the scope (forward or backward) until you find the furthest point forward to ensure maximum eye relief (at least 2 inches from your eye) that allows you to see a full field of view.

4. Position your Ravin® Crossbow as level as possible. Place a level on the limb mounts to confirm your Ravin® Crossbow limbs are level (Figure 3).



5. Remove the elevation turret cap and place a level on the elevation turret. Rotate the scope in the rings until it is level with your Ravin® Crossbow limbs (Figure 4). The horizontal reticle markings should be parallel with your Ravin® Crossbow limbs.

6. Tighten the upper rings, alternating between front and back screws, while still keeping an eye on your scope levels. Keep slightly tightening and alternating from front to back until secure. Over-tightening the mounting rings will damage the scope and void the warranty! (See torque recommendations below)

7. Rotate the FPS selection dial to match the manufacturers advertised speed of your Ravin® Crossbow (Figure 5).

Torque wrench recommendations:

15 inch pounds for the upper half of the mounting rings.

35 inch pounds for the bottom half of the mounting rings.



Mounting Bracket



Cocking Handle



Quiver



B. Attaching and Removing the Quiver

1. Attach the mounting bracket to the bottom of your Ravin® Crossbow. Screw the mounting bracket into the hole on the bottom of the Picatinny rail with the sloped surfaces on the mounting bracket pointing rearward (Figure 6).



Figure 6



Figure 7



Figure 8

2. To attach the Quiver to the mounting bracket, press and hold the thumb release on the mounting bracket (Figure 7). Position the posts of the quiver in the holes on the mounting bracket with the hood facing forward (Figure 8). Release the thumb release to lock the Quiver in place. Reverse the process to remove the quiver from your crossbow.

3. The quiver can be mounted on either side of the mounting bracket. Most right handed shooters prefer to locate the quiver on the right side of your Ravin® Crossbow (when viewed from the top of your Ravin® Crossbow).

C. Attaching and Removing the Cocking Handle

1. Attach the mounting bracket to the bottom of your Ravin® Crossbow. Screw the mounting bracket into the hole on the bottom of the Picatinny rail with the sloped surfaces on the mounting bracket pointing rearward (Figure 9).



Figure 9



Figure 10



Figure 11

2. To attach the Cocking Handle to the mounting bracket, press and hold the thumb release on the mounting bracket (Figure 10). Position the posts of the Handle in the holes on the mounting bracket with the Cocking Handle head facing forward (Figure 11). Release the thumb release to lock the Cocking Handle in place. Reverse the process to remove the Cocking Handle to your Ravin® Crossbow.

3. The cocking handle can be mounted on either side of the mounting bracket. Most right handed shooters prefer to locate the Cocking Handle on the left side of your Ravin® Crossbow (when viewed from the top of your Ravin® Crossbow).

SECTION 4 - ARROW & NOCK SELECTION AND INSPECTION

⚠ WARNING

To minimize risk of serious injury from improper use or selection of arrows for your Ravin® Crossbow:

- Use only Ravin® Arrows with Ravin® Clip-on nocks recommended for this Ravin® Crossbow.
- Do not use Ravin® Arrows on any other crossbow.
- Fully engage the Ravin® Clip-on nock with the bowstring. Doing so requires about 5 pounds of force. You should hear an audible click.
- Confirm the nock is properly indexed with the fletching.
- Do not use fixed-blade broadheads with a maximum diameter greater than 1 5/8".
- Use only mechanical broadheads rated for crossbows. Premature blade opening can deflect the arrow in an unintended direction and damage your Ravin® Crossbow.
- Inspect carbon arrow shafts and nocks for hairline fractures or cracks. Firing a damaged arrow can cause the arrow shaft to shatter, scattering fragments. Firing an arrow with a damaged nock can cause the bow to dry fire.
- Inspect arrows for damage. Damaged arrows can fly in unintended directions.
- Do not use arrows with flat, half-moon, slotted moon or universal nocks.
- Do not use arrows lighter than 400 grains (including tip). Lighter arrows can cause a dry fire effect and result in limb breakage.
- Do not fire your crossbow if the center serving is worn, damaged or separated.
- Inspect strings and cables before each use. Immediately replace worn, fraying, separated or damaged strings, cables or center serving.

NOTICE

Damage to your Ravin® Crossbow caused by firing a damaged or unapproved arrow or broadhead is not covered by the warranty.

Your Ravin® Crossbow is specifically engineered to work with designs, dimensions, tolerances and materials of genuine Ravin® components and accessories. Use of non-Ravin® components and accessories, including non-Ravin® arrows and nocks or non-Ravin® strings and cables, may cause the system to not operate as designed, potentially resulting in an unsafe condition that could lead to serious injury or death.

Ravin® Arrows with Ravin® Clip-on nocks are specifically designed for use with the Ravin® Strings and Cables on your Ravin® Crossbow. Use of any arrows or nocks not designed for use with your Ravin® Crossbow may not have the same designs, dimensions, tolerances or materials, which could potentially interfere with the operation of your crossbow, including but not limited to the anti-dry fire trigger mechanism, and lead to serious injury or death. **DO NOT USE NON-RAVIN® ARROWS OR NOCKS.** Ravin® Arrows are included with your Ravin® Crossbow.

The anti-dry fire mechanism on your Ravin® Crossbow is located behind the bowstring and is designed to accommodate and work with the combination of Ravin® Clip-on nocks and Ravin® Strings and Cables. The Ravin® Clip-on nock may not properly engage with the non-Ravin® bowstring or with a center serving that is worn, damaged or separated. The trigger and anti-dry fire system are not intended or designed to be used with any other nocks, such as flat, half-moon, slotted moon or universal nocks. Ravin® Arrows are specifically designed for this model Ravin® Crossbow and CANNOT be used on any other crossbow.

Ravin® Clip-on nocks are molded from a fiber-reinforced material designed to better withstand the extreme forces generated by your Ravin® Crossbow. Non-Ravin® nocks may fracture, creating a dry fire condition that can damage your crossbow. The rear metal inserts glued in your Ravin® Arrows more uniformly distribute bowstring energy to the arrow shaft. Arrow shafts without a metal insert are more likely to fracture, creating a dry fire condition and potentially discharging sharp fragments of the broken arrow shaft at high speeds. **DO NOT USE NON-RAVIN® ARROWS OR NOCKS WITH YOUR RAVIN® CROSSBOW.**

Use only 20" - 400 grain Ravin® Arrows with the Ravin® Clip-on nock recommended for this Ravin® Crossbow. The Ravin® Arrows are correctly weighted and include the required Ravin® Clip-on nock. Lighter arrows are not designed to absorb the high energy generated by your Ravin® Crossbow and will create a dry fire condition that can damage the crossbow.

Visually inspect each arrow for damage before each use. Look for damage to the nock and vanes. Check for any splintering or cracking to the carbon shaft by flexing the arrow back and forth in your hand. Rotate and repeat this inspection process four to five times around the entire circumference of the shaft. If you find an arrow to be damaged in any way, discard it immediately. Firing a damaged arrow can cause serious personal injury and damage to your Ravin® Crossbow.



Properly flex-test each arrow

Make sure the nock and white fletching are properly oriented (see below). The nock opening should be perpendicular to the white (cock) fletching. If the nock is not in the proper orientation, rotate the nock to the required position. Inspect the nock to insure there are no chips or cracks. If the nock is damaged, replace with a Ravin® Clip-on nock only.



Do NOT use fixed-blade broadheads with a maximum diameter greater than 1 5/8". Use only mechanical broadheads rated for crossbows. Premature blade opening can deflect the arrow in an unintended direction and/or damage your Ravin® Crossbow.

SECTION 5 - OVERVIEW OF THE TRIGGER, SAFETY & ANTI-DRY FIRE

⚠ WARNING

To minimize risk of death or serious injury when shooting your Ravin® Crossbow:

- Do not remove, modify or deactivate the safety features on your Ravin® Crossbow.
- Never move the safety to the FIRE position until you are ready to fire.
- Do not put your finger in the trigger guard while deactivating the safety or you might inadvertently pull the trigger.
- Do not put your finger on the trigger until you are ready to fire your Ravin® Crossbow.
- Gun owners accustomed to shooting from a bench rest have a tendency to place their finger on the trigger with the safety off. Doing so is a dangerous practice that can result in accidental discharge of your Ravin® Crossbow.
- Do not rely totally on any mechanical safety mechanism. Only safe handling habits will ensure the safe use of your Ravin® Crossbow.
- Do not apply wax to the center serving or the bowstring. Wax buildup on the bowstring clasp can lead to trigger malfunction, including a delay in bowstring release after trigger pull in cold temperatures.
- Do not use non-Ravin® components and accessories. Non-Ravin® components and accessories may cause the system to not operate as designed, potentially resulting in an unsafe condition that could lead to serious injury or death.



The Trac Trigger Firing System™ (TTFS) that slides along the rail contains the safety and anti-dry fire mechanisms (Figure 12). Engaging the TTFS with the bowstring automatically activates the safety and the anti-dry fire mechanism. The safety is in the SAFE position (white dot visible) when the TTFS is engaged with the bowstring. If the safety is not engaged, push the safety to the SAFE position.

The trigger mechanism works in conjunction with the Trac Trigger Firing System™. When the TTFS housing is in the rearmost position the trigger mechanism is automatically engaged.

The trigger pull on your Ravin® Crossbow is about 4.0 pounds, which is one of the most precise of any crossbow on the market. Do not put your finger inside the trigger guard while deactivating the safety or you might inadvertently pull the trigger. Do not put your finger on the trigger until you are ready to fire. The safety must always be in the SAFE position (white dot visible) until you are ready to fire (Figure 13).

The anti-dry fire mechanism will only disengage when a Ravin® Arrow is fully inserted into the trigger mechanism and the Ravin® Clip-on nock is clipped onto the bowstring. Flat, half-moon, slotted moon or universal nocks will not release the anti-dry fire mechanism. Nocking a Ravin® Arrow on the string disengages the anti-dry fire mechanism.

Sliding the safety to the FIRE position (red dot visible) will allow your Ravin® Crossbow to fire when trigger is pulled (Figure 14).



SECTION 6 - COCKING & UNCOCKING

⚠ WARNING

To minimize risk of serious injury from accidental discharge during cocking or uncocking of your Ravin® Crossbow:

- Wear safety glasses.
- Verify the safety is in the SAFE position.
- Do not place any part of your body into the bowstring path.
- Do not attempt to cock or uncock your Ravin® Crossbow by hand.
- Do not leave your Ravin® Crossbow cocked when it is not in use or unsupervised.
- Do not let go of cocking handle while the spool thumb release is pressed or the cocking handle will free spin, potentially causing serious injury and/or damaging your crossbow.

Do not leave your Ravin® Crossbow cocked for more than 8 hours.

NOTICE

A. Cocking

1. If you are right-handed, make sure the rear grip is mounted on the left side of the stock (Figure 15). This grip can be switched to the other side for left-handed shooters by removing the two screws.
2. Remove the cocking handle from the mounting bracket by pressing the thumb release. Place the cocking handle head in the recessed hole on either side of the stock. Engage the slots on the cocking handle head to the pins with the drive shaft for a positive connection (Figure 16). There is a magnet in the cocking handle that will assist in holding the handle in place.
3. Place the limb tip bumpers of your Ravin® Crossbow on the ground with the top of the crossbow facing away from you (Figure 17). If you are unable to place the limb tip bumpers on the ground, be sure your Ravin® Crossbow is pointed in a safe direction.



4. To release any tension in the cocking system, rotate the cocking handle slightly forward toward the top of your Ravin® Crossbow. Press the spool thumb release (Figure 18) then rotate backward to release the tension.
5. Remove the cocking handle from your Ravin® Crossbow.
6. While still holding the spool thumb release down with one hand, slide the Trac Trigger Firing System™ forward along the rail with the other hand pressing firmly until it is fully engage with the bowstring. The cocking strap will unwind from the spool as the Trac Trigger Firing System® is moved forward (Figure 19). Firmly press the Trac Trigger Firing System™ over the bowstring. The bowstring clasp will automatically close around the bowstring and the safety and anti-dry fire system will automatically activate. There will be an audible click when the bowstring clasp is closed. If the safety is not engaged, push the safety to the SAFE position.
7. Visually confirm the safety is in the SAFE position (white dot visible) (Figure 20). If the safety is not engaged, push the safety to the SAFE position.



8. While firmly holding your Ravin® Crossbow grip with one hand, rotate the cocking handle forward toward the top of your Ravin® Crossbow with the other hand to retract the Trac Trigger Firing System™ toward the trigger (Figure 21). The spool ratchet will make a clicking sound as the cocking handle is rotated. **DO NOT PRESS THE SPOOL THUMB RELEASE DURING THIS PROCEDURE.** Your Ravin® Crossbow is fully cocked when the clutch in the cocking handle slips and clicking sound from the spool ratchet stops (Figure 22).

9. Disengage the cocking handle from the drive shaft and store on the mounting bracket (Figure 23). Do not place any part of your body into the bowstring path.

10. Your Ravin® Crossbow is now fully cocked and ready to load with a Ravin® Arrow recommended for your Ravin® Crossbow.



B. Uncocking.

1. Point your Ravin® Crossbow in a safe direction.
2. Visually confirm the safety is in the SAFE position (white dot visible). If the safety is not engaged, push the safety to the SAFE position.
3. Unload your Ravin® Crossbow as explained in SECTION 7 – LOADING & UNLOADING before uncocking your Ravin® Crossbow.
4. Remove the cocking handle from the mounting bracket by pressing the thumb release. Place the cocking handle head in the recessed hole on either side of the stock. Engage the slots on the cocking handle head to the pins on the drive shaft for a positive connection. There is a magnet in the cocking handle that will assist in holding the handle in place.
5. Place the limb tip bumpers of your Ravin® Crossbow on the ground with the top of the crossbow facing away from you (Figure 24). If you are unable to place the limb tip bumpers on the ground, be sure your Ravin® Crossbow is pointed in a safe direction.
6. Firmly grasp your Ravin® Crossbow grip and the cocking handle during the uncocking cycle. Failure to do so can result in serious injury and/or damage to your crossbow.
7. To release any tension in the cocking system, rotate the cocking handle slightly rearward toward the bottom of your Ravin® Crossbow. While applying pressure to the cocking handle with one hand, press the spool thumb release down with the other hand (Figure 25). The force of the drawstring will be immediately transferred to the cocking handle. You can stop the uncocking cycle at any time by releasing the spool thumb release. Maintain a firm grip on the cocking handle! **YOU CAN STOP THE UNCOCKING CYCLE AT ANY TIME BY RELEASING THE SPOOL THUMB RELEASE.**

8. While continuing to press the spool thumb release, slowly rotate the cocking handle backwards toward the bottom of your Ravin® Crossbow to move the Trac Trigger Firing System™ forward until the bowstring contacts the string stops (Figure 26). The cocking strap will have some slack when your Ravin® Crossbow is fully uncocked.
9. Disengage the cocking handle from the drive shaft and store on the mounting bracket.



Figure 24



Figure 25



Figure 26

SECTION 7 - LOADING & UNLOADING

⚠ WARNING

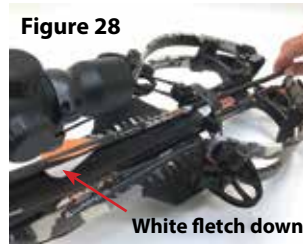
To minimize risk of serious injury from accidental discharge during loading and unloading of your Ravin® Crossbow:

- Wear safety glasses.
- Verify the safety is in the SAFE position before loading or unloading an arrow.
- Do not place any part of your body into the bowstring path.
- Do not load an arrow in your Ravin® Crossbow until you are at your shooting location.
- Index your arrow with the odd color (white) fletching facing down. (Section 4)
- Unload your Ravin® Crossbow before moving to a different shooting location.
- Carefully hold the arrow just behind the broadhead or point. Never position your hand in front of the arrow tip.
- Fully engage the Ravin® Clip-on nock with the bowstring. Doing so requires about 5 pounds of force. You should hear an audible click.
- Point your Ravin® Crossbow in a safe direction when loading or unloading.



A. Loading

1. Inspect your Ravin® Arrow as discussed in SECTION 4 – ARROW & NOCK SELECTION AND INSPECTION. Do NOT use fixed-blade broadheads with a maximum diameter greater than 1 5/8". Use only mechanical broadheads rated for crossbows. Premature blade opening can deflect the arrow in an unintended direction and damage your Ravin® Crossbow.
2. Cock your Ravin® Crossbow as discussed in SECTION 6 - COCKING AND UNCOCKING. Visually confirm that the safety is in the SAFE position (white dot visible). If the safety is not engaged, push the safety to the SAFE position.
3. Point your Ravin® Crossbow in a safe direction when loading or unloading. NEVER place your hand in the bowstring path (Figure 27). Always keep your hand forward of the archway bracket.
4. Grasp your Ravin® Arrow directly behind the tip (Figure 28). Never position your hand in front of the arrow tip. The odd color (white) fletching must be positioned downward in the rail.



5. With your crossbow pointed in a safe direction, insert the nock end of the Ravin® Arrow under the riser archway and into the center of the TTFs (Figure 29) until the Ravin® Clip-on nock clips onto the bowstring. It takes about 5 pounds of force to fully engage a Ravin® Arrow with the bowstring so push firmly. You should hear an audible click. If you are unsure whether the arrow is fully nocked, completely remove the nock from the TTFs and try again. Confirm that the odd color (white) fletching is in the down position. If the Ravin® Clip-on nock is not fully clipped onto the string, your Ravin® Crossbow will not fire.



6. The Ravin® Arrow will now be centered on the rest at the front of your Ravin® Crossbow (Figure 29B). Your Ravin® Crossbow is now fully loaded and ready to fire. Sliding the safety to the FIRE position (red dot visible) will allow your Ravin® Crossbow to fire!

B. Unloading your Cocked Crossbow

1. Point your Ravin® Crossbow in a safe direction.
2. Visually confirm that the safety is in the SAFE position (white dot visible). If the safety is not engaged, push the safety to the SAFE position.
3. Grasp your Ravin® Arrow directly behind the tip and pull the arrow forward until it clears the archway bracket (Figure 30). NEVER place your hand in the bowstring path (Figure 31). Always keep your hand in front of the string stops.
4. Secure the arrow in the quiver.
5. Your Ravin® Crossbow is now unloaded and can be uncocked.

Figure 30

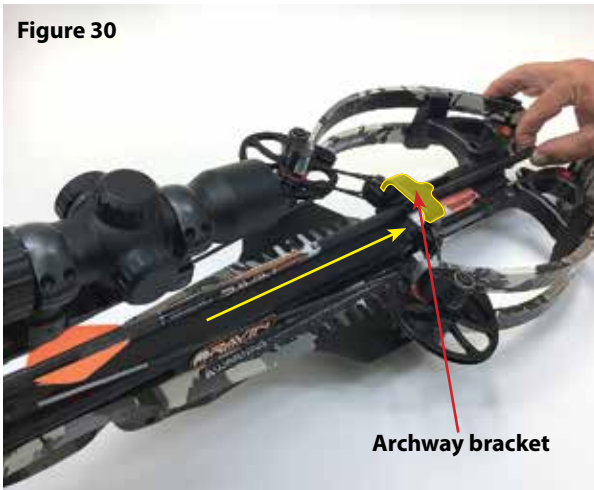


Figure 31



SECTION 8 - SHOOTING YOUR CROSSBOW

DANGER

Serious injury can result from discharging your Ravin® Crossbow with any part of your body in the release path of the bowstring. To avoid possible finger amputation, keep fingers out of the bowstring path and below the finger guard at all times.

WARNING

To minimize risk of death or serious injury when shooting your Ravin® Crossbow:

- Follow the safety advice and instructions in this manual.
- Do not remove, modify or deactivate the safety features on your Ravin® Crossbow.
- Do not use your Ravin® Crossbow for any purpose other than hunting or target shooting.
- Do not discharge your Ravin® Crossbow with any part of your body in the release path of the bowstring.
- Wear safety glasses.
- Never move the safety to the FIRE position until you are ready to take fire.
- When shooting from a bench rest do not permit your fore-grip hand to rotate into the bowstring path.
- Do not tilt your Ravin® Crossbow from side to side.
- Do not put your finger on the trigger until you are ready to fire your Ravin® Crossbow.
- Know your intended target and what is beyond it before pulling the trigger. An arrow can cause death or serious injury even beyond its effective hunting range.
- Be certain your backstop is adequate when target shooting.
- Always keep your loaded Ravin® Crossbow pointed toward the target. Accidentally pointing it in the direction of others can cause death or serious injury in the event of accidental discharge.
- Apply a non-wax lubricant to the center serving of the bowstring before operating your Ravin® Crossbow in temperatures below 32° F.
- Do not fire your Ravin® Crossbow if it is not in proper working condition. If you have any questions, contact Customer Service at 715-718-3574.
- Unload your Ravin® Crossbow before handing it to another person.
- Keep bystanders well behind you when shooting your Ravin® Crossbow. A malfunction of your Ravin® Crossbow can cause death or serious injury to bystanders.
- Require bystanders to wear safety glasses.
- Never allow your Ravin® Crossbow to be used by anyone who has not read and understood this manual.
- Do not rely totally on your Ravin® Crossbow's safety mechanism. Only safe handling habits will ensure the safe use of your Ravin® Crossbow.
- Seek a doctor's advice if you are taking medication to be sure that you are able to shoot and handle a Ravin® Crossbow safely.
- Do not consume drugs or alcohol before or while using your Ravin® Crossbow. Your vision and judgment can be seriously impaired, making your handling of your Ravin® Crossbow unsafe.

1. Determine the yardage to the target. The scope has yardage compensation markers on the reticle that approximates the elevation adjustment based upon the distance from which you are shooting your Ravin® Crossbow. The first time shooting, the distance should be 20 yards or less.
2. Point your COCKED (see Section 6) and LOADED (see Section 7) Ravin® Crossbow toward the intended target with one hand on the fore-grip and the other hand on the stock. Do not put your finger on the trigger until you are ready to fire your Ravin® Crossbow.
3. Confirm that your fingers and hands are not in the bowstring path. Lightly press the stock against your shoulder (Figure 32).
4. When you are ready to fire, slide the safety forward to the FIRE position (red dot visible) (Figure 33). Do not place your finger in the trigger guard when deactivating the safety, or you might inadvertently pull the trigger.
5. With your Ravin® Crossbow sighted on the intended target, pull the trigger slowly and smoothly.



6. If your Ravin® Crossbow fails to fire, return the safety to the SAFE position (white dot visible), point the bow in a safe direction and UNCOCK THE BOW WITHOUT REMOVING THE ARROW. Once the bow is fully uncocked, remove the arrow and begin the cocking sequence again.
7. The most common cause of your Ravin® Crossbow not firing is if the Ravin® Clip-on nock is not properly seated on the bowstring. Attempt to fire your Ravin® Crossbow again. If your Ravin® Crossbow still does not fire, point the bow in a safe direction and UNCOCK THE BOW WITHOUT REMOVING THE ARROW. To obtain service, contact our Service Department.
8. Cold Weather Operation: **DO NOT WAX BOWSTRING OR SERVING.** Wax buildup on the bowstring clasp can lead to trigger malfunction, including a delay in bowstring release after trigger pull in cold temperatures. Before operating your Ravin® Crossbow in temperatures below 32° F, apply a non-wax lubricant to the center serving of the bowstring (Figure 34). A suitable non-wax lubricant is Ravin® Serving Fluid or Scorpion Venom Polymeric Bowstring Fluid.



Sold Separately



SECTION 9 - ADJUSTING THE SCOPE



⚠ DANGER

Serious injury can result from discharging your Ravin® Crossbow with any part of your body in the release path of the bowstring. To avoid possible finger amputation keep fingers out of the bowstring path and below the finger guard at all times.

⚠ WARNING

To minimize risk of death or serious injury when shooting your Ravin® Crossbow:

- Follow the safety advice and instructions in this manual.
- Wear safety glasses.
- Never look at the sun through the scope – permanent eye damage can occur.
- Never move the safety to the FIRE position until you are ready to take fire.
- Do not put your finger on the trigger until you are ready to fire your Ravin® Crossbow.
- Know your intended target and what is beyond it before pulling your trigger. An arrow can cause death or serious injury even beyond its effective hunting range.
- Be certain your backstop is adequate when target shooting.
- Always keep your loaded Ravin® Crossbow pointed toward the target. Accidentally pointing it in the direction of others can cause death or serious injury in the event of accidental discharge.

You should have already mounted your scope as explained in Section 3. Confirm the FPS selection dial setting matches the advertised speed of your Ravin® Crossbow.

A. Ocular Lens Adjustment

You need to adjust the ocular lens on the scope to match your eye characteristics.

1. Hold the scope about two or three inches from your eye and look through the eye piece at an object at a normal shooting distance of perhaps 30 yards away.
2. If the reticle and the object are not sharply defined, look through the scope and turn the eye piece at the rear of the scope (either direction) to adjust the focus. Continue to adjust the lens until the reticle is clear and sharp.

B. Sighting in the Scope

Sighting in your scope involves adjusting the point of aim (POA) to match with the point of impact (POI).

1. Choose a place to shoot your Ravin® Crossbow that is safe. Place a target on the backstop and set up for first shot at 10 yards.
2. Before taking the first shot, rotate the FPS selection dial to match the manufacturers advertised speed of your Ravin® Crossbow (see Section 3, A-7). The speed of your Ravin® Crossbow can be found in the owner's manual.
3. Take a shot at the center of the target using the 20 yard aiming point on the reticle.
4. Remove the protective cap from the windage adjustment and elevation adjustment dials to make suitable adjustments to bring the point of impact (POI) closer to the point of aim (POA). For example, if the point of impact is lower than the point of aim, rotate the elevation adjustment dial counter clockwise. If the point of impact is higher than the point of aim, rotate the elevation adjustment dial clockwise. At 10 yards each click moves the point of impact 1/20th of an inch.
5. Once the point of impact is the same as the point of aim at 10 yards, repeat this process at 20 yards. At 20 yards each click moves the point of impact 1/10th of an inch.
6. Once the point of impact is the same as the point of aim at 20 yards, repeat this process at 50 yards using the 50 yard aiming point on the reticle. At 50 yards each click moves the point of impact 1/4 of an inch. When you are happy with the 50 yard POI, replace the protective caps. You have now sighted in the scope to your Ravin® Crossbow.
7. As with all weapons (rifles, bows and crossbows), after extended periods of storage or travel it is wise to check the point of impact before attempting long range shots. To check the accuracy of your Ravin® Crossbow first take a shot at 10 yards and then 20 yards before attempting longer shots.

C. Calibrating the Scope to the Crossbow Speed

In order for the crossbow speed calibration to function properly, a Ravin® Arrow is recommended for this Ravin® Crossbow and equipped with a 100gr field point or broadhead must be used. If a heavier or lighter (Minimum 100gr) broadhead or field point is used at any time you must repeat the zeroing in process of your scope.

1. Now that you have sighted in your Ravin® Crossbow at 50 yards, as discussed above, choose a place to shoot your Ravin® Crossbow that is safe. Place a target on the backstop and set up for first shot at 20 yards.
2. Take a shot at its center using the 20 yard aiming point on the reticle. If the point of impact is higher than the point of aim, turn the FPS speed selector dial to a slightly lower number. If the point of impact is lower than the point of aim, turn the FPS speed selector dial to a slightly higher number.
3. Once the point of impact is the same as the point of aim at 20 yards the scope is calibrated for your Ravin® Crossbow speed. It is not necessary to adjust the FPS selection dial for other distances. If the FPS selection dial is changed you will need to recalibrate your Ravin® Crossbow using this process.

D. Illuminated Reticule

Your scope is equipped with a selectable red or green illuminated reticule. The illumination rheostat is located on the left side of the scope. High brightness settings are recommended for daytime use when ambient light is bright. At times of low light such as dawn or dusk, a lower brightness setting is recommended. The lower settings may not be visible during bright daylight. Reticules are black in the "R" or "G" position if the battery is low or defective.

Ravin® illuminated scope models use a CR2032 coin style lithium battery. To insert a battery, unscrew the battery compartment cap on the top of the rheostat adjustment turret and insert a new battery "+" side up. Warning: Always hold onto the lower half of the rheostat when loosening or tightening the battery compartment cap to ensure no damage is done.

E. Care and Maintenance of your Scope

Your scope is a precision instrument that deserves a high level of care. Do not attempt to disassemble or clean the scope internally. Store the scope in a dry environment. Never store the scope in places such as vehicles on hot days. High temperatures can adversely affect the lubricants and sealants.

Keep the protective lens covers in place when the scope is not in use. The external lens coatings should occasionally be wiped clean with the lens cloth provided or an optical quality lens paper. Remove any external dirt with a soft brush to avoid scratching the lens.

Unnecessary rubbing or use of a coarse cloth may cause permanent damage to lens coatings. To clean the external surface of the scope it is recommended that a cleaning cloth is used to protect the scope against corrosion.

SECTION 10 - MAINTENANCE

WARNING

Firing a Ravin® Crossbow that is not in proper working condition is extremely dangerous. To minimize risk of death or serious injury while servicing your Ravin® Crossbow:

- Wear safety glasses.
- Unload and uncock before servicing.
- Seek a qualified professional to change cables, strings, arrow rest, cocking strap or limbs.
- Return your Ravin® Crossbow to our Service Department to replace a damaged or worn cocking strap.
- Only use manufacturer-approved replacement parts.
- Do not fire your Ravin® Crossbow if the strings or cables are worn, damaged or modified.
- Use only Ravin® Strings and Cable recommended for your Ravin® Crossbow.
- Replace the entire bowstring if the center serving is worn, damaged or separated. Ravin® Clip-on nocks are designed for use only with the factory center serving on genuine Ravin® bowstrings. DO NOT RE-SERVE OLD BOWSTRINGS.
- Do not lubricate the internal components of your trigger assembly. Lubricant can cause contamination to accumulate in the trigger assembly that can lead to trigger malfunction.
- Do not apply wax to the center serving or the bowstring. Wax buildup on the bowstring clasp can lead to trigger malfunction, including a delay in bowstring release after trigger pull in cold temperatures.

The warranty for your Ravin® Crossbow is void if any of the following occur:

- The instructions in the manual are not followed.
- Your Ravin® Crossbow or any of its parts or accessories are modified from their original condition.
- Damage is caused by abuse or neglect.
- Damage is caused by dry firing or by using underweight arrows.
- Your Ravin® Crossbow is disassembled.
- Use of replacement parts, arrows or nocks not approved by this manufacturer.
- Use of broadheads with a maximum diameter greater than 1 5/8”.

SECTION 11 – STRING REPLACEMENT

⚠ WARNING

Improper use of the Ravin® Press is extremely dangerous. To minimize risk of death or serious injury while servicing your Ravin® Crossbow:

- Carefully read the instructions provided with the Ravin® Press before use.
- Always unload and fully uncock your Ravin® Crossbow before servicing.
- Use only the Ravin® Press on your Ravin® Crossbow.
- Do NOT use the Ravin® Press on any other crossbows.
- Only use manufacturer-approved replacement parts.
- Replace strings and cables every two years or 400 shots, whichever occurs first, or sooner if wear or damage is visible.

NOTICE

The warranty for your Ravin® Crossbow is void if any of the following occur:

- The instructions for the Ravin® Press are not followed.
- Use of a crossbow press other than the Ravin® Press on your Ravin® Crossbow.
- Use of replacement parts not approved by the manufacturer.

We highly recommend that you have your strings and cables replaced at your local pro shop or the Ravin® Service Department.



SECTION 12 – HUNTING SAFELY WITH YOUR CROSSBOW

⚠ WARNING

To minimize risk of death or serious injury when hunting with your Ravin® Crossbow:

- Take a hunter's education and safety course prior to use. In fact, most states require that you complete such a course prior to obtaining your hunting license.
- Do not fire your Ravin® Crossbow if branches or other obstructions block its limbs' release path. Doing so could cause the limbs, bowstring or cables to break.
- Never shoot unless you have a clear view of your target. Movement can be a camouflaged hunter.
- Do not fire unless the arrow has an unobstructed path to the target. Arrows can be deflected by obstacles and can strike an unintended target.
- Hunting with your Ravin® Crossbow from elevated surfaces such as tree stands is dangerous and can result in death or serious injury.
- Do not put your finger on the trigger until you are ready to fire your Ravin® Crossbow.
- Inserting a gloved finger into the trigger guard can cause accidental discharge of your Ravin® Crossbow.
- Know your intended target and what is beyond it before pulling your trigger. An arrow can cause death or serious injury even beyond its effective hunting range.
- Always keep your loaded Ravin® Crossbow pointed toward the target. Accidentally pointing it in the direction of others can cause death or serious injury in the event of accidental discharge.
- Keep bystanders well behind you when shooting your Ravin® Crossbow. A malfunction of your Ravin® Crossbow can cause death or serious injury to bystanders.
- Require bystanders to wear safety glasses.
- Do not rely totally on your Ravin® Crossbow's mechanical safety mechanism. Only safe handling habits will ensure the safe use of your Ravin® Crossbow.

NOTICE

To insure that all users of this Ravin® Crossbow follow the safety advice and instructions in this manual, keep this manual with your Ravin® Crossbow.

Check your local, state or provincial regulations before transporting your Ravin® Crossbow. Some jurisdictions require that a crossbow be cased during transport.

SECTION 13 – NOCK REPLACEMENT

To minimize risk of serious injury from damaged or unapproved nocks in your Ravin® Arrows:

- Use only Ravin® Arrows with Ravin® Clip-on nocks recommended for your Ravin® Crossbow.
- Fully engage the Ravin® Clip-on nock with the bowstring. Doing so requires about 5 pounds of force. You should hear an audible click.
- Confirm the nock is properly indexed with the fletching.
- Inspect carbon arrow shafts and nocks for hairline fractures or cracks. Firing a damaged arrow can cause the arrow shaft to shatter, scattering fragments. Firing an arrow with a damaged nock can cause the bow to dry fire.
- Inspect arrows for damage. Damaged arrows can fly in unintended directions.

Damage to your Ravin® Crossbow caused by firing a damaged or unapproved nocks or arrows is not covered by the warranty.

Ravin® Arrows with Ravin® Clip-on nocks are specifically designed for use with the Ravin® Strings and Cables on your Ravin® Crossbow. Use of any arrows or nocks not designed for use with your Ravin® Crossbow could potentially interfere with the operation of the crossbow.

DO NOT USE NON-RAVIN® ARROWS OR NOCKS.

1. Nock removal. Grip the nock with pliers and twist while pulling the nock out. Discard the old nock. NEVER grip the arrow shaft or aluminum nock bushing with the pliers or any other tool.



2. Install new nock. Use only the supplied nock installation tool to install the new orange nock.

a. Place new orange nock into Nock Installation Tool. Make sure to turn the nock until it falls all the way down into the Nock Installation Tool.



b. Locate the aluminum nock bushing at the rear of the arrow. Press the new nock into the nock bushing until the nock is tight and cant go any further. Do not use pliers to insert the new nock or you may damage the nock. Do NOT glue the nock into the bushing.



c. Use the pointer on the Nock Installation Tool and turn until the new nock is properly aligned with the white cock vane on the arrow as shown.



d. Place the Nock Installation Tool on a table top, and with two hands grasp the arrow shaft, near the fletching, and push downward until the nock is flush with the nock bushing. After you have fully installed new nock, make sure the pointer on the Nock Installation Tool is still aligned with the white cock vane.



Ensure the nock is flush with nock bushing



3. Inspection. Inspect the nock to ensure it is flush with the nock bushing and there are no chips, cracks or other damage present. If the nock is damaged, remove it and replace it.

4. Video Instructions. For more information go to: <http://ravincrossbows.com/safety-instruction>.

SECTION 14 – FAQ

WHERE IS THE SERIAL NUMBER LOCATED?

The serial number is located on the center of the guide where the string would be in the resting position. If the Trac Trigger Firing system is connected to the string, the bow will need to be cocked back in order to see the number directly below it.

WHERE CAN I GET MY RAVIN® SERVICED?

At any Ravin® certified dealer. If you are having trouble finding one, you can use the dealer locator that is on www.ravincrossbows.com.

WHY SHOULD I REGISTER MY CROSSBOW?

Product registration is for your safety and convenience. Unless you register your product we will be unable to send you important updates about your crossbow.

WHAT TYPE OF ARROWS AND NOCKS SHOULD I USE WITH MY RAVIN® CROSSBOW?

Use only Ravin® Arrows with clip-on nocks recommended for your crossbow.

WHAT IF I HAVE MORE QUESTIONS?

For further inquiries call our customer service number at 715-718-3574, or email us at sales@ravincrossbows.com.

HOW DO I PROPERLY SIGHT IN MY RAVIN®?

Once you have your scope properly mounted on your bow, set your speed dial to the manufactured suggested speed of your bow. Start at 10 yards to make sure you are on target and make adjustments with your vertical and horizontal adjustment turrets to zero the bow. Next, back up to 20 yards and do the same. Back up to 50 yards and zero the bow in here to where you are confident. After this has been done, come back up to 20 yards to calibrate your bow for the rest of your reticles. At this point you want to focus on using just your speed dial for vertical adjustment of all your reticles out to 100 yards. Take a shot at 20 yards with your 20 yard reticle. If you hit high you will need to turn your speed dial slightly down to a lower number until you hit exactly what you are aiming at. If you hit low, you will need to turn your speed dial to a slightly higher number until you hit exactly what you are aiming at. Upon doing this the rest of your reticles will be set out to 100 yards.

CAN I TAKE THE TRIGGER BOX OFF THE STRING IF I DON'T SHOOT IT?

The trigger box will stay connected to the string until the bow is fired. It will not hurt the bow or cause damage by being attached and left on after the bow is de-cocked. If the next time you would like to shoot, make sure your safety is in the safe position, cock your bow back and load an arrow.

HOW LONG CAN I KEEP MY CROSSBOW COCKED?

It is safe to keep your crossbow cocked while you are hunting in a stationary position. For personal safety reasons, do not stalk or walk to or from your hunting location with your Ravin® Crossbow cocked. Do not keep your crossbow cocked for more than about 8 hours.

HOW DO I POSITION MY ARROW?

You want to nock your arrow on your Ravin® Crossbow with the odd colored fletching pointing straight down.

WHAT DO I DO IF THE REST COMES LOOSE?

Move the rest in the most vertical position possible, put a little Loctite on each screw and tighten down.

DO I USE SERVING FLUID OR WAX?

We recommend using Ravin® Polymeric Bow String Conditioner Fluid. This is a non-wax lubricant. This can be used on the string and is also designed to be put right on to the center serving. For further instructions see your Ravin® owners manual.

HOW LONG SHOULD STRINGS LAST?

We recommend changing the strings and cables about every two years or 400 shots, whichever occurs first. The string life can vary depending on the care and maintenance, the amount of shots and weather conditions during use.

HOW DO I CHANGE MY STRINGS AND CABLES?

Once your crossbow needs to have string and cables replaced, we would suggest taking it to your local Ravin® dealer. If you need to look up who your closest dealer is you can use the dealer locator on our website www.ravincrossbows.com under the support tab.

CAN MY ARROWS BE RE-FLETCHED? WHAT ARE THE RE-FLETCHING SPECS?

Yes, your arrows can be re-fletched with a 1 degree off-set.

DOES RAVIN® MAKE LIGHTED NOCKS?

Ravin® currently does not have a lighted arrow product for Ravin® Crossbows, but is working diligently to develop one that meets our safety, performance and quality requirements. In the meantime, to minimize risk of serious injury from improper selection or use of arrows or nocks for your Ravin® Crossbow, use only Ravin® Arrows with Ravin® Clip-on nocks recommended for your model Ravin® Crossbow. Please consult your Ravin® Instruction Manual for more information, which is also available at <http://ravincrossbows.com/safety-instruction>.

WHAT DO YOU RECOMMEND FOR BROADHEADS AND TARGETS?

Both fixed and expandable broadheads will work out of your Ravin®, however, we recommend using an expandable broadhead for best accuracy down range. Also, make sure that when selecting a broadhead that it is rated for crossbows and even more specifically for the speed of your bow.

WHAT ARE THE DRAW WEIGHTS?

The Ravin® R9 has a draw weight of 195lbs and the R15 has a draw weight of 235lbs.

EXPLANATION OF MAGNIFICATION SPEED DIAL

Your scopes reticles are adjusted by using your speed dial which is your magnification setting. This means that once you properly sight in and calibrate your scope using the speed dial your magnification will become a fixed power at that point as well. Moving the dial to a different Magnification setting after your bow has been properly sighted in and calibrated with your speed dial will result in an accuracy issue vertically.

WHAT IS THE WARRANTY ON MY RAVIN® CROSSBOW?

New Ravin® Crossbows are covered under a five-year limited warranty against defects in materials and workmanship to the stock, trigger, cocking mechanism and limb assembly when used normally in accordance with Ravin's published instructions and guidelines. Our liability extends to parts, labor and return transportation to the customer, and is non-transferable. This limited warranty does not cover strings, cables, scopes, arrows, transportation of product to our service center or damage caused by abuse, dry firing and using arrows other than Ravin® Arrows recommended for your crossbow. Failure to follow safety advice and usage instructions in this manual, modification or failure to perform normal maintenance or any other expenses or damage to property or person. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

SECTION 15 – LIMITED WARRANTY

Congratulations on the purchase of your new crossbow from Ravin® Crossbows, LLC. By using your Ravin® Crossbow, you are agreeing to be bound by the terms of this Limited Warranty.

With proper usage and care you will enjoy many years of use. It is important to follow proper safety, assembly and equipment usage procedures. This information is located in your manual. Serious injuries to yourself or others, damage to your Ravin® Crossbow, or poor performance from your Ravin® Crossbow could result from failure to thoroughly read, understand and follow these instructions. If any part of this manual is unclear to you, further information is available at www.ravincrossbows.com/support or you can contact the Service Department at 715-718-3574.

Use only manufacturer-approved replacement parts. Use of replacement parts not approved by Ravin® will void your warranty.

If you elect to replace the strings and cables yourself, use only the Ravin® Press specifically designed to compress the limbs on your Ravin® Crossbow. Do not use the Ravin® Press on any other crossbow. The Ravin® Press is sold separately. Carefully read the instructions and its warnings supplied with the Ravin® Press before use.

Five-Year Non-Transferable Limited Warranty New Ravin® Crossbows are covered under a five year limited warranty from date of purchase against defects in materials and workmanship to the stock, trigger and cocking mechanism and limb assembly, when used normally in accordance with our published instructions and guide-lines. Our liability extends to parts, labor and return transportation to the customer and is non-transferable. This limited warranty does not cover strings, cables, arrow rest, scopes, arrows, transportation of your Ravin® Crossbow to our Service Center; damage caused by abuse, dry firing, using arrows other than Ravin® Arrows recommended for your Ravin® Crossbow, failure to follow safety advice and usage instructions in the manual, modification or failure to perform normal maintenance; or any other expenses or damage to property or person. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Product Registration is for your safety and convenience. Unless you register your product we will be unable to send you important updates about your Ravin® Crossbow. Please register your Ravin® Crossbow by using the enclosed registration card or online at www.ravincrossbows.com/support/register.

To obtain service: Please call for a return authorization number (RA#) prior to sending the unit and write the RA# on the outside of the package. The Serial No. on your Ravin® Crossbow is required to receive an RA#. Attach to the product your name, address, telephone number and a letter describing the problem. Carefully package and return product prepaid, clearly writing the RA# below the address. Return the unit to an authorized Service Center or directly to the factory. For a listing of authorized service centers please call the factory at the number listed below. Ravin® Crossbows deemed to be covered under the five year warranty will be repaired and shipped to you at no charge. You will be responsible for the shipping charges into the service center, and possibly labor charges for repairs completed at a non-factory authorized service center. Ravin® Crossbows not covered under this warranty will be subject to normal charges. We will obtain your permission before we repair your Ravin® Crossbow if it is not covered by warranty. For further inquiries contact the Service Department:

DISCLAIMER TO THE EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, STATUTORY, EXPRESS OR IMPLIED. RAVIN® DISCLAIMS ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WARRANTY OF NON-INFRINGEMENT OF THIRD PARTY RIGHTS, AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS, TO THE EXTENT PERMITTED BY LAW. IN SO FAR AS SUCH WARRANTIES CANNOT BE DISCLAIMED, RAVIN® LIMITS THE DURATION AND REMEDIES OF SUCH WARRANTIES TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL RAVIN® BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, ARISING OUT OF OR RELATING TO ANY BREACH OF THE TERMS OF THIS LIMITED WARRANTY, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE. LIMITATIONS OF LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY, AND THE SOLE LIABILITY OF RAVIN® FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES, ARISING OUT OF OR RELATING TO ANY BREACH OF THE TERMS OF THIS LIMITED WARRANTY, SHALL NOT EXCEED THE PRICE PAID FOR THE PRODUCT.

Any cause of action you may have with respect to the terms of this Limited Warranty must be brought within one (1) year of when the cause of action arose. If any portion of this Limited Warranty is held to be invalid, such holding shall not invalidate the other provisions. This Limited Warranty constitutes the entire agreement between you and Ravin®, and all promises, representations, understandings, warranties and agreements with reference to the subject matter hereof or inducements for purchasing your Ravin® Crossbow relied upon by you are expressed herein. The validity, performance, and construction of this Limited Warranty shall be governed and interpreted in accordance with the laws of Wisconsin. The Parties hereby consent and submit to the exclusive jurisdiction of any of the federal or state courts located in the State of Wisconsin with respect to the enforcement of any rights or remedies hereunder.

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