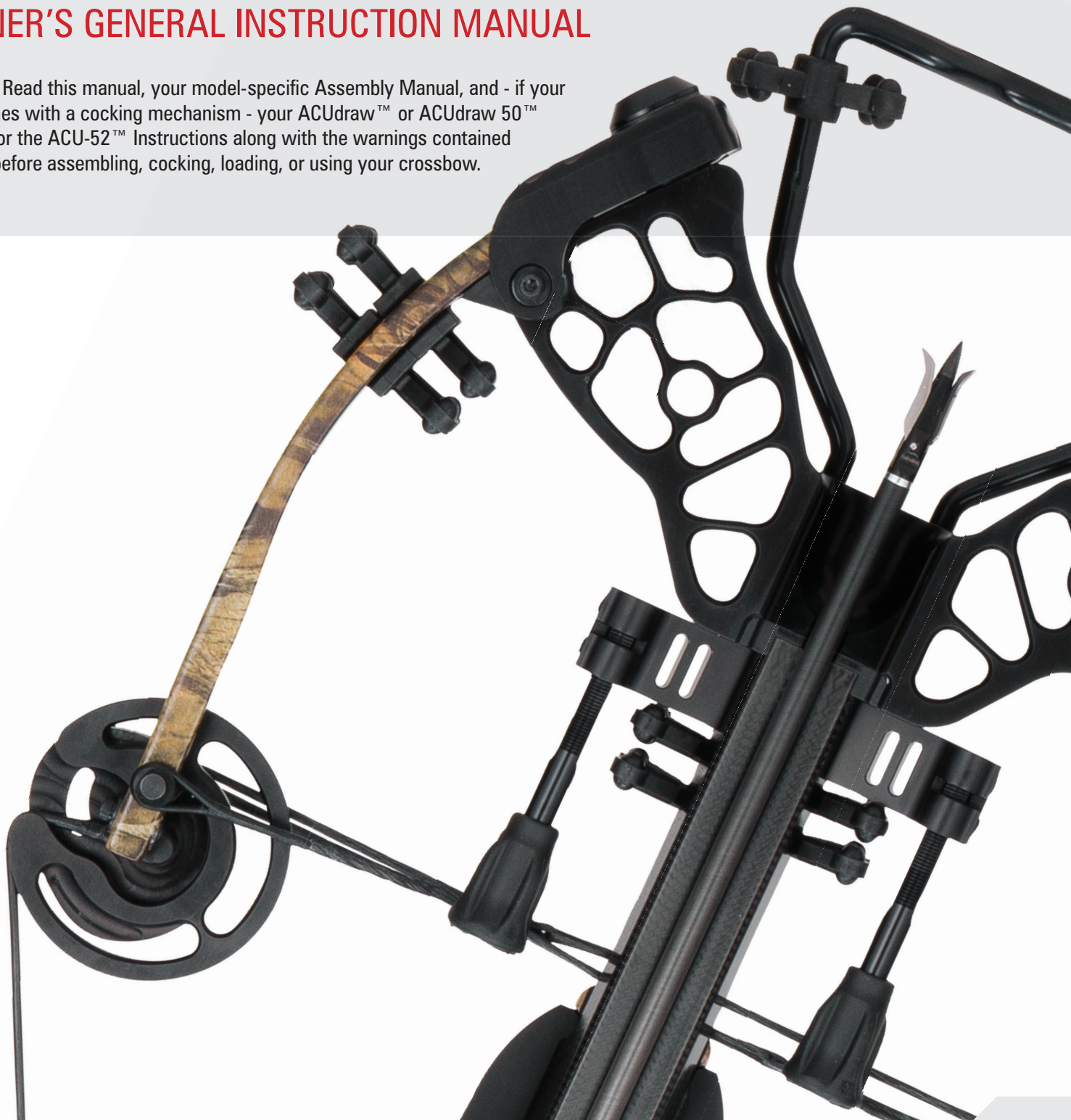


TENPOINT & WICKED RIDGE CROSSBOWS

OWNER'S GENERAL INSTRUCTION MANUAL

NOTICE: Read this manual, your model-specific Assembly Manual, and - if your bow comes with a cocking mechanism - your ACUdraw™ or ACUdraw 50™ Manual, or the ACU-52™ Instructions along with the warnings contained in them before assembling, cocking, loading, or using your crossbow.



TENPOINT CROSSBOW TECHNOLOGIES®

WICKED RIDGE CROSSBOWS®

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THIS MANUAL COVERS:

General Instructions	2-3
Introduction.....	2
ANSI Standards	2
General Safety	3
Cocking & Uncocking Your Crossbow	3-5
Cocking Safety.....	3-4
Manually Cocking Your Crossbow	4-5
Uncocking Safety.....	5
Uncocking Instructions	5
Loading & Unloading Your Crossbow	6
Arrow Loading and Unloading Safety	6
Arrow Loading Instructions.....	6
Arrow Unloading (Removal) Instructions.....	6
Shooting Your Crossbow	7-10
Hand & Finger Safety	7-8
Shooting Safety and Guarding Against Accidental Discharge	8-9
Shooting Instructions & Technique.....	9-10
Sighting Your Crossbow	10-13
Sighting Safety.....	10

Sighting Instructions	11
Sighting Scopes	11-12
Sighting Pin Sights	12-13
Converting to Peep and Pin Setup	13
Treestand Safety	13-14
Arrow Safety & Selection	14-17
Arrow & Broadhead Safety	14
Arrow Selection	14-15
What to Consider When Choosing Arrows	15-16
TenPoint & Wicked Ridge Arrow Choices.....	16-17
Preventive Maintenance & Care of Your Crossbow ..	17-19
Maintenance Warnings.....	17-18
Maintenance Procedures	18-19
Crossbow Troubleshooting	19-20
Returning Your Crossbow for Service	21
String & Cable Adjustment	21-22
String & Cable Specifications	22
Limited Operational Warranty	23-24

GENERAL INSTRUCTIONS

INTRODUCTION

Today's modern crossbows, like firearms and other lethal weapons, are dangerous if you use them improperly or unsafely. We want you to enjoy shooting your crossbow but to do so safely.

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

Your safety and the safety of others requires that you always remain aware of the danger inherent in handling a lethal weapon and that you embrace the responsibility to yourself and others to focus on the rules of safe operation every time you handle your crossbow.

Format Note: *As you read the manual from cover-to-cover, you will notice that we repeat some of the safety instructions multiple times. In addition, we list safety instructions before we present operational instructions in all sections of the manual to emphasize their importance.*

ANSI STANDARDS

This manual contains safety instructions preceded by the following American National Standards Institute approved signal words (ANSI Standards):

▲ DANGER **▲ WARNING** **▲ CAUTION** **NOTICE**

These signal words alert you to specific levels of hazard:

▲ DANGER The **DANGER** signal word indicates a hazardous situation which, if not avoided, will, without doubt, result in death or serious personal injury.

▲ WARNING The **WARNING** signal word indicates a hazardous situation which, if not avoided, may result in death or serious personal injury.

▲ CAUTION The **CAUTION** signal word indicates a hazardous situation, which, if not avoided, may result in moderate or minor personal injury.

NOTICE The **NOTICE** signal word addresses safety practices unrelated to personal injury.

GENERAL INSTRUCTIONS CONT.

GENERAL SAFETY *

* Before shooting your crossbow, also read *Hand & Finger Safety and Shooting Safety and Guarding Against Accidental Discharge* in the Shooting section beginning on page 7.

NOTICE

Always keep your manuals with your crossbow and always make certain you include them if you sell or loan your crossbow to another person.

NOTICE

Before hunting with your crossbow, make sure you are qualified and understand all of the risks involved. Take a hunter's education and safety course. In fact, most states require that you complete such a course prior to obtaining your hunting license.

NOTICE

Check your local, state, or provincial regulations regarding transporting a crossbow. Some jurisdictions require that a crossbow be encased during transport.

⚠ WARNING

Failure to follow the safety advice and instructions in this manual could result in property damage and/or serious personal injury or death.

⚠ WARNING

Always seek a doctor's advice if you are taking medication to be sure that you are able to shoot and handle a crossbow safely. Do not consume drugs or alcohol before or while using the crossbow. Your vision and judgment could be seriously impaired, making your handling of the crossbow unsafe.

⚠ WARNING

Wear safety glasses when assembling, cocking, loading, or shooting your crossbow to protect your eyes from being injured if the limbs, bowstring, cables, or cocking device cords were to break.

⚠ WARNING

Your crossbow is a dangerous and deadly weapon that is designed for hunting and target shooting only. Do not use it for any other purpose.

⚠ WARNING

Do not modify your crossbow or remove or deactivate its safety features because doing so could cause the crossbow to malfunction and could create a dangerous situation.

NOTICE

Modifying your crossbow will also automatically void your warranty.

⚠ WARNING

When carrying a cocked (always unloaded) crossbow, make sure the safety is in the SAFE position (rearward, toward the white dot) and to avoid serious injury, be careful not to place any part of your body in the release path of the bowstring in case of an unintentional discharge.

⚠ DANGER

When handling your crossbow in the treestand or while carrying it when it is cocked, do not grab or hold it by the barrel and fore-stock, thereby putting your hand into the release path of the bowstring. If the bow were to accidentally fire, the string will severely injure your hand or possibly amputate one or more fingers.

⚠ WARNING

Do not transport your crossbow while loaded and do not store it while it is cocked. An unintentional discharge of a loaded crossbow could cause death or serious personal injury. Storing a cocked crossbow can weaken it and possibly break its limbs, string, and/or cables.

COCKING & UNCOCKING YOUR CROSSBOW

COCKING SAFETY

⚠ WARNING

Wear safety glasses when cocking your crossbow to protect your eyes from being injured if the limbs, bowstring, cables, or cocking unit cords were to break.

⚠ WARNING

When manually cocking your crossbow, grip the bowstring securely with all four fingers of both hands and do not relax your grip until the string passes the Dry-Fire-Inhibitor (DFI) and engages the string latch. Otherwise, you could severely injure your fingers or hands as you release the string, and/or you could dry-fire the bow, potentially breaking the limbs and causing severe injury or other property damage.

COCKING & UNCOCKING YOUR CROSSBOW CONT.

COCKING SAFETY CONT.

⚠ CAUTION Be careful to use proper lifting techniques when manually cocking your crossbow because you could injure your back or shoulders if the draw weight is too much for you to handle. Note: If the draw weight is too heavy for you to cock your crossbow manually, various cocking aids are available to make it easier, including the ACUdraw, ACUdraw 50, ACU-52, ACUrope, and Rope-Cocker. These cocking devices have their own Manual or Instructions. Read the manuals/instructions before using one of them.

⚠ WARNING When cocking your crossbow with an ACUdraw automated cocking unit do not over-crank it. Stop cranking as soon as you see and hear the trigger-safety-knob slide from FIRE to SAFE and you hear the string latch engage the string. If you continue to crank it beyond this point, you can lift the trigger box out of alignment, damaging the bow; and/or you can break the draw cords, sending the mechanism's string-claw flying, which may cause serious injury and/or property damage. (See the ACUdraw Instruction Manual for complete operating instructions.)

⚠ WARNING When cocking your crossbow with an ACUdraw automated cocking unit, do not forget to return the string-claw to its storage position prior to loading an arrow. Otherwise you will "shoot the claw" when you pull the trigger, which may cause serious personal injury and/or damage to your bow from flying debris. (See the ACUdraw Instruction Manual for complete operating instructions.)

⚠ WARNING Do not place your foot in the foot stirrup when cocking your crossbow with an ACUdraw cocking mechanism. In the unlikely event that the string-claw was to break away from the draw cords, it could injure or possibly break your foot. (See the ACUdraw Instruction Manual for complete operating instructions.)

⚠ CAUTION Do not attempt to manually cock models equipped with CLS, XLT, or PLT bow assemblies. They are too narrow to cock manually, and you will pinch and possibly injure your fingers if you attempt to do so.

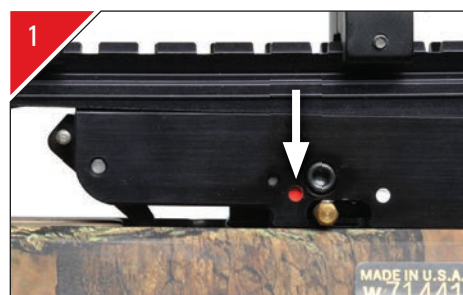
⚠ DANGER Once the crossbow is cocked, do not grab, hold, or carry it by the barrel or fore-stock, thereby putting your hand into the release path of the bow string. If the bow were to accidentally fire, the string will severely injure your hand or possibly amputate one or more fingers.

⚠ WARNING When carrying a cocked but unloaded crossbow, make sure the safety is in the SAFE position (the rearward position, toward the white dot) to prevent against an accidental discharge and possible serious injury.

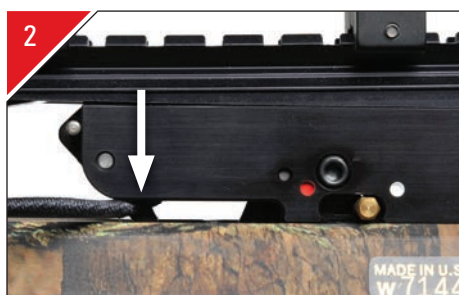
MANUALLY COCKING YOUR CROSSBOW

Cocking your crossbow inaccurately is the most frequent cause of inaccurate shooting. With any crossbow, if the bowstring is not centered on the string latch when cocked, the crossbow will not shoot straight.

Before cocking your crossbow, move the safety knob into the FIRE position (forward, toward the red dot). If you try to cock your crossbow with the safety in the SAFE position (rearward, toward the white dot), the string latch will not engage the string. Instead, the DFI (Dry-Fire-Inhibitor) will catch and hold the string, making it appear that the crossbow is cocked when it is not. When the DFI – instead of the string latch – engages the bowstring, you cannot fire the crossbow. When cocked correctly, the bowstring will automatically set the safety and the string latch will grasp and hold the string (photos 1, 2, & 3).



Make sure the trigger's safety is in the FIRE position (forward, toward the red dot) before cocking your crossbow.



If you try to cock the crossbow while the safety is in the SAFE position (rearward, toward the white dot), the DFI will hold the bowstring and the bow will only appear to be cocked.



When you cock your crossbow correctly, the safety will automatically move to the SAFE position (rearward, toward the white dot), and the string latch will engage the string.

COCKING & UNCOCKING YOUR CROSSBOW CONT.

MANUALLY COCKING YOUR CROSSBOW CONT.

Follow these steps to cock your crossbow manually:

- With the underside of the crossbow facing you, place your foot far enough into the foot stirrup that it will not slip out when you draw the bowstring.
- Grab the bowstring on both sides of the barrel using all four fingers of both hands.
- Slide your hands together so that your index fingers are flush against the sides of the barrel (photo 4). Note: Our ACRA-ANGLE barrel allows you to slide your index fingers along the barrel without pinching them.
- Using the sides of the barrel as a guide, and with a secure grip, pull the bowstring toward the trigger assembly and into its string slot until you hear the string latch, and see and hear the safety knob automatically move from FIRE to SAFE (rearward, toward the white dot). Note: If you attempt to cock the crossbow with the safety in the SAFE position (rearward, toward the white dot), the string-latch will not engage the string. To correct this problem, move the safety knob forward to the FIRE position (toward the red dot) and firmly pull the bowstring to engage the string latch and the safety.
- Take a quick glance inside the string slot to make sure the string-latch is holding the string. The more firmly you draw the string back, the easier it is to cock the crossbow. Over time, you will develop a drawing technique that will make cocking the crossbow quite easy.

Reminder: All TenPoint and Wicked Ridge Crossbow models are equipped with a patented DFI, which prevents the crossbow from dry-firing if an arrow is not loaded (photo 5).

- After you cock your crossbow check the safety knob to make sure it is in the SAFE position (rearward, toward the white dot).

CAUTION If your crossbow comes with an ACUdraw, ACUdraw 50, or ACU-52 cocking mechanism, refer to its manual/instructions for specific safety recommendations, operation, and/or instructions before cocking it.

UNCOCKING SAFETY

DANGER When uncocking (shooting) your crossbow, do not allow your thumb or fingers to move above the crossbow barrel's flight deck or anywhere into the bowstring's release path because the string will severely injure or amputate a finger or thumb when you pull the trigger.

WARNING Wear safety glasses when uncocking (shooting) your crossbow to protect your eyes from being injured if the limbs, bowstring, or cables were to break.

WARNING Do not attempt to uncock your crossbow by hand or by using an ACUdraw, ACUdraw 50, ACUrope, ACU-52, Rope-Cocker, or other mechanism because doing so could cause you to lose control of the bowstring, possibly resulting in serious personal injury.

UNCOCKING INSTRUCTIONS

The safest way to uncock your crossbow is to shoot it using a practice arrow or a TenPoint Crossbow Unloading Bolt (CUB). The CUB is a single-use, two-piece biodegradable unloading shaft, which decomposes in or on the ground over time. Do not dry-fire the bow. You need the weight of an arrow to absorb the bow's energy and to prevent damage to the bow.

If your state allows you to carry an arrow equipped with a practice point while hunting, carry an old one in your quiver to use when uncocking your crossbow. You can shoot it into soft, rock-free ground or into a special-purpose unloading target that you keep in your vehicle.

If shooting into the ground, aim at a point roughly three feet in front of you. If you aim further out, you could bury your arrow and not recover it.



Slide your index fingers along the barrel.



Patented DFI (Dry-Fire-Inhibitor).

LOADING & UNLOADING YOUR CROSSBOW

ARROW LOADING AND UNLOADING SAFETY

⚠ WARNING Do not load an arrow in your crossbow until you are situated where you intend to remain stationary until shooting it. Never carry your crossbow with an arrow loaded in it. Death or serious personal injury could result if you were to slip or fall while carrying a loaded crossbow.

⚠ WARNING Wear safety glasses when loading, shooting, or unloading your crossbow to protect your eyes from being injured if the limbs, bowstring, cables, or cocking mechanism cords were to break.

⚠ WARNING Broadheads are razor sharp. Do not handle them with your bare hands to avoid serious personal injury. When transporting or storing field or broadhead-tipped arrows, keep them safely protected inside a quiver.

⚠ WARNING When loading or unloading (removing) an arrow, do not allow any part of either hand to move into the release path of the bowstring because if the bow were to accidentally fire, the string would severely injure your hand or possibly amputate one or more fingers in its path. Carefully hold the arrow with your index and middle fingers and your thumb, just behind the broadhead or point, as you slide it into or out of position.

⚠ WARNING After your hunt, remove your arrow and secure it in your quiver.

ARROW LOADING INSTRUCTIONS

When the crossbow is cocked and the safety is in the SAFE position (rearward, toward the white dot), follow these steps to load your arrow:

- While keeping your crossbow pointed in a safe direction, your finger off the trigger, and no part of either hand in the release path of the cocked bowstring, place a TenPoint or Wicked Ridge recommended crossbow arrow on top of the barrel, with one of the vanes or feathers slipped down into the barrel's arrow-flight-groove. **Note:** When loading the arrow, hold it between your index and middle fingers and your thumb, just behind the point or broadhead (photo 1).
- Slide the arrow along the arrow-flight-groove under the arrow retention spring, and into the trigger box's string slot until its nock sits firmly against the cocked bowstring.



PROPER POSITION. Hold the arrow with your index and middle finger and your thumb just behind the broadhead.

ARROW UNLOADING (REMOVAL) INSTRUCTIONS

When the crossbow is cocked and loaded, and the safety is in the SAFE position (rearward, toward the white dot), follow these steps to unload your arrow:

- While keeping your crossbow pointed in a safe direction, your finger off the trigger, and no part of either hand in the release path of the cocked bowstring, remove the arrow. **Note:** When unloading the arrow, hold it between your index and middle fingers and your thumb, just behind the point or broadhead (photo 1).
- Secure the arrow in your quiver.

SHOOTING YOUR CROSSBOW*

HAND & FINGER SAFETY

* Also refer to *Cocking Safety* in the *Cocking & Uncocking Your Crossbow* section beginning on page 3.

⚠ DANGER Do not allow your thumb or fingers to move above the crossbow barrel's flight deck or anywhere into the bowstring's release path (photos 1, 2, & 3) because the string will severely injure or amputate a finger and/or thumb in its path when you fire the crossbow.



IMPROPER. With your fore-grip hand positioned as shown above, you will severely injure or amputate your thumb if you fire your crossbow.



IMPROPER. With your fore-grip hand positioned as shown above, you will severely injure or amputate your finger(s) if you fire your crossbow.



IMPROPER. With your fore-grip hand positioned as shown above, you will severely injure your hand or amputate your thumb and/or finger(s) if you fire your crossbow.

⚠ WARNING Regardless of the style of grip or grip safety features on your crossbow, you must keep your hand and fingers safely positioned every time you shoot the crossbow (photos 4, 5, 6, & 7).



PROPER HAND POSITION. Proper way to hold the fore-grip on thumbhole crossbows without a GripSafety.



PROPER HAND POSITION. Proper way to hold the fore-grip on thumbhole crossbows with a GripSafety.*



PROPER HAND POSITION. Proper way for a left-handed shooter to hold the fore-grip on crossbows equipped with a GripSafety.



PROPER HAND POSITION. Proper way to hold the fore-grip on Wicked Ridge crossbows and models formerly known as 6 Point Series.

* For details see the "GripSafety" section in the appropriate bow model Assembly Instructions.

⚠ DANGER Your fore-grip hand is particularly vulnerable when shooting from a bench rest. Make sure you do not allow the fore-grip hand to rotate to the side of the grip or to slide in front of the grip, thereby allowing your thumb and/or fingers to move above the flight deck and into the release path of the bowstring. Again, if you fire the crossbow with your thumb in the release path of the bowstring, you will seriously injure it and possibly amputate it. For models without a GripSafety, a safe way to position the fore-grip hand is to place it flat on the bench rest with your fingers pointing toward your target. Spread the thumb away from the fingers to form a "V". Position the fore-grip flat on the bench rest in front of your hand and slide the back end of the grip into the "V" (photos 8-10).

Models with a GripSafety: Grip the fore-grip conventionally in order to depress the GripSafety with your thumb (photo 11).

SHOOTING YOUR CROSSBOW CONT.



IMPROPER POSITION. With your fore-grip hand rotated to the side of the grip, you will expose your thumb to the bowstring's release path.



IMPROPER POSITION. With your fore-grip hand positioned in front of the grip, you will expose your thumb to the bowstring's release path.



PROPER POSITION. With your fore-grip hand flat on the bench rest you can position the grip in the "V" between your fingers and thumb (on crossbows not equipped with a GripSafety).



PROPER POSITION. Proper hand position when bench shooting, if your crossbow is equipped with a GripSafety.

HAND & FINGER SAFETY CONT.

NOTICE

All TenPoint and Wicked Ridge crossbows come with one or more of the following fore-grip features: GripSafety, molded grip safety wings, or wing-style safety-engineered fore-grips. Check your bow model Assembly Instructions for details.

NOTICE

If your bow comes with a GripGuard that you must install, refer to your bow model Assembly Instructions. If you have misplaced or lost the GripGuard, contact TenPoint at www.tenpointcrossbows.com or by calling 330-628-9245 immediately for a replacement.

⚠ WARNING

When loading an arrow in your crossbow, do not allow any part of either hand to move into the release path of the bowstring because if the bow were to accidentally fire, the string will severely injure your hand or possibly amputate one or more fingers in its path. Carefully hold the arrow with your index and middle finger and your thumb just behind the broadhead or point as you slide it into position (photo 12).



PROPER POSITION. Hold the arrow with your index and middle finger and your thumb just behind the broadhead.



IMPROPER POSITION. Do not grab or hold it by the barrel and fore-stock.

⚠ WARNING

While handling or carrying your crossbow after it is cocked, do not grab or hold it by the barrel and fore-stock, thereby putting your hand into the release path of the bowstring. If the bow were to accidentally fire, the string will severely injure your hand or possibly amputate one or more fingers (photo 13).

SHOOTING SAFETY AND GUARDING AGAINST ACCIDENTAL DISCHARGE

⚠ DANGER

TO AVOID POSSIBLE AMPUTATION OF FINGERS OR A THUMB, FOLLOW THIS HAND AND FINGER SAFETY ADVICE WHEN SHOOTING YOUR CROSSBOW.

⚠ WARNING

Wear safety glasses when shooting your crossbow to protect your eyes from being injured if the limbs, bowstring, cables, or cocking device cords were to break.

⚠ WARNING

Be certain of your intended target and what is beyond it before pulling the trigger. An arrow can cause death or serious personal injury even beyond its effective hunting range.

SHOOTING YOUR CROSSBOW CONT.

SHOOTING SAFETY AND GUARDING AGAINST ACCIDENTAL DISCHARGE CONT.

- ⚠ WARNING** When hunting, never shoot just because you see movement, because that movement could be a camouflaged hunter.
- ⚠ WARNING** When target shooting, set up in a safe, open area with a proper target and backstop.
- ⚠ WARNING** When you are at a shooting range, make sure you always keep your loaded crossbow pointed toward the target. Accidentally pointing it in the direction of others is extremely dangerous and potentially life threatening.
- ⚠ WARNING** Make certain others are well behind you when you are shooting. If the limbs, bowstring, cables, or cocking unit cords were to break, you could seriously injure someone standing close to you.
- ⚠ WARNING** When carrying a cocked but unloaded crossbow, make sure the safety is in the SAFE position (rearward, toward the white dot) and do not grip the bow with your hand in the path of the bowstring to prevent certain serious injury in the event of an accidental discharge.
- ⚠ WARNING** Do not fire your crossbow if branches or other obstructions block its limbs' release path. Doing so could cause the limbs, bowstring, or cables to break and possibly result in serious personal injury.
- ⚠ WARNING** If you handle your crossbow carelessly or improperly, you could cause it to discharge unintentionally, which could result in property damage and/or serious personal injury or death.
- ⚠ WARNING** Do not use your crossbow if it is not in top working condition. Carefully examine it and your arrows for worn, loose, damaged, or missing parts every time before you use them. A damaged crossbow, or one in need of maintenance or repair, could break during use and cause injury or death to you or bystanders. Contact Customer Service at www.tenpointcrossbows.com or by calling 330-628-9245.
- ⚠ WARNING** To avoid an accidental discharge and potential serious injury or death, do not move the safety to the FIRE position (forward, toward the red dot) until you have made the decision to fire and are ready to squeeze the trigger.
- ⚠ WARNING** On models equipped with a GripSafety, do not depress (deactivate) the GripSafety until you have made the decision to fire and you are ready to squeeze the trigger. Refer to the "GripSafety" section in the model's Assembly Instructions.
- ⚠ DANGER** Avoid serious personal injury, including amputation, by only using the end of your thumb (distal phalanx) to depress the GripSafety button. Do not use the pad at the base of your thumb or palm to press or deactivate the GripSafety because all or part of the distal phalanx may still protrude above the flight deck and into the path of the string when firing the bow.
- ⚠ WARNING** To avoid accidental discharge, do not put your finger on the trigger until you have made the decision to fire.
- ⚠ WARNING** To guard against accidental discharge, make sure your crossbow is unloaded before handing it to another person.

SHOOTING INSTRUCTIONS & TECHNIQUE

- ⚠ WARNING** Before shooting your crossbow also read and follow the safety and operational instructions in the following manuals to avoid serious injury to you or others:
- The Cocking Your Crossbow and Arrow Loading & Unloading Safety sections of this manual.
 - The ACUdraw or ACUdraw 50 Manual, or ACU-52 Instructions if your crossbow is equipped with one of these devices.
 - Your model-specific Assembly Instructions Manual.

As any experienced hunter will tell you, it is easy to make a bad shot. To shoot a crossbow accurately, you must practice proper shooting technique. Here are the steps to follow after you have cocked and loaded your crossbow:

- If you are shooting from a standing position, your feet should be approximately shoulder-width apart and positioned either perpendicular to the target in a closed stance or quartering at a 45-degree angle toward the target in an open stance. Pick the stance that is most comfortable for you (photos 14 & 15).

SHOOTING YOUR CROSSBOW CONT.

SHOOTING INSTRUCTIONS & TECHNIQUE CONT.

- Shoulder the crossbow keeping your fore-grip hand and fingers on the fore-grip and below the arrow flight deck.
- Position your cheek in the middle of the stock cheek-piece or comb, and make sure you have a clear sight picture through the scope.
- Position your trigger finger on the side of the stock above the actual trigger and pointing toward your intended target. Do not place it on the trigger (photo 16).
- If standing, keep both elbows pulled close to your body to better support the crossbow (photo 17). Follow the same steps when shooting from a seated position, making certain your crossbow limbs will clear any obstacles.
- If shooting from a bench rest, your fore-grip hand is particularly vulnerable to misplacement (photo 18). Be careful to keep your thumb and fingers below the flight deck and away from the cables to avoid injury.
- When you are ready to take your shot, slide the trigger's safety knob from the SAFE position to the FIRE position.
- Just before taking your shot – take a breath; exhale about half of it and hold the remaining air. Place your trigger-finger on the trigger and begin to squeeze it slowly until the bow fires. If your crossbow is equipped with a GripSafety, press it and hold it in just before squeezing the trigger. This breath control and trigger squeezing process will keep you steady and improve your accuracy.
- Follow the shot through your scope until your arrow hits its target rather than looking up immediately after pulling the trigger. This technique is called “follow-through” and it, too, will improve your accuracy.



Proper foot position.



Proper foot position.



Position finger on side of the side of the stock.



Keep elbows close to your body.



Keep your thumb and fingers below the flight deck and away from the cables to avoid injury.

SIGHTING YOUR CROSSBOW

SIGHTING SAFETY

⚠ DANGER TO AVOID POSSIBLE AMPUTATION OF FINGERS OR A THUMB, FOLLOW THE HAND AND FINGER SAFETY ADVICE BEGINNING ON PAGE 7 WHEN SIGHTING YOUR CROSSBOW.

⚠ WARNING Wear safety glasses when shooting your crossbow to protect your eyes from being injured if the limbs, bowstring, cables, or cocking unit cords were to break.

⚠ WARNING Make sure your crossbow is uncocked and unloaded when making the windage and elevation adjustments on your scope.

NOTICE Keep the scope away from acid, alkaline and other corrosives to avoid damaging it.

SIGHTING YOUR CROSSBOW CONT.

SIGHTING INSTRUCTIONS

Most TenPoint and Wicked Ridge crossbows are equipped with scopes and fixed 7/8-inch Weaver style dovetail scope mounts. Regardless of the sighting system, all models are pre-sighted for 20-yards at the factory, meaning they are set accurately enough to hit a 7-inch pie tin at that distance. Most likely, you will want to fine-tune your sights at some point.

SIGHTING SCOPES

Magnified Scope Focus Adjustments:

If the reticle is not in focus when you look through the magnified scope, adjust the focus by rotating the non-locking knurled ring on the end of the rear bell until focused.

Lighted Scope Adjustments:

You can view the dots in black (when the dial is in the "R" or "G" off positions), red or green. The red and green dots (illuminated) in the scopes are intended for lower light conditions while the black (non-illuminated) dots provide the best results in bright light conditions.

Adjust dot brightness by turning the intensity dial on the scope. The higher the intensity, the brighter the dots will appear (lines are not illuminated). Use the lowest intensity possible for your light conditions to achieve maximum performance. The intensity dial is also the "on" and "off" switch. To operate the scope, line up the intensity number/color desired with the index dot located at the rear of the intensity dial. THE DIAL SHOULD BE IN THE "R" OR "G" POSITION (off) WHEN NOT IN USE.

Note: You may leave the scope "on" for the duration of each day's hunt.

Elevation and Windage Adjustments:

RangeMaster Pro Scope

The RangeMaster Pro Scope is equipped with three lines and five dots calibrated for 20, 30, 40, 50, and 60-yards. The top dot/line is calibrated for 20-yards, the center for 30-yards and the bottom for 40-yards. The fourth free-standing dot is calibrated for 50-yards and the fifth free-standing dot is calibrated for 60-yards.

Before sighting in your crossbow, adjust the speed dial on the scope to match the advertised speed of your crossbow (275 to 425-feet per second crossbows). Sight the crossbow in at 20-yards using the top dot/line. If the impact point is different than the aiming point, make adjustments to the vertical (elevation) and/or horizontal (windage) adjustments. Unscrew the adjustment caps and turn the adjustment knob(s) in the direction indicated by the arrow to make your correction(s). Continue to shoot the crossbow and adjust the scope until your impact and aiming points coincide. Once sighted in at 20-yards, the top dot/line will be zeroed in at 20-yards, the bottom dot/line should be accurate at approximately 40-yards, the fourth free-standing dot should be accurate at 50-yards, and the fifth free-standing dot should be accurate at 60-yards. Fine-tune your scope elevation settings at the 40-yard dot/line or 50-yard free-standing dot using the scope's speed dial. If you are hitting high at the 40 or 50-yard distances, adjust the speed dial to a higher speed level. Or, if you are hitting low, adjust the dial to a lower speed level.

3x Pro-View 2 Scope

The 3x Pro-View 2 Scope is calibrated for crossbows shooting in the 330-foot per second range and is equipped with three lines and four dots calibrated for 20, 30, 40, and 50-yards. The top dot/line is calibrated for 20-yards, the center for 30-yards and the bottom for 40-yards. The fourth free-standing dot is calibrated for 50-yards.

Shoot one to three shots at 20-yards to confirm you are at least close to the bull's-eye. Make any windage/elevation adjustments needed to get close to the bull's-eye. Make final adjustments on the scope at 30-yards using the center dot/line. If the impact point is different than the aiming point, make adjustments to the vertical (elevation) and/or horizontal (windage) adjustments. Unscrew the adjustment caps and turn the adjustment knob(s) in the direction indicated by the arrow to make your correction(s). Continue to shoot the crossbow and adjust the scope until your impact and aiming points coincide. Once sighted in at 30-yards, the top dot/line should be accurate at 20-yards, the bottom dot/line should be accurate at approximately 40-yards, and the free-standing dot should be accurate at 50-yards. Note: At 30-yards it takes approximately four to five clicks to move your point of impact 1/4-inch.

SIGHTING YOUR CROSSBOW CONT.

SIGHTING SCOPES CONT.

3 x 32 Multi-Line Scope

The 3 x 32 Multi-Line Scope is calibrated for crossbows shooting in the 330-foot per second range and is equipped with four lines calibrated for 20, 30, 40, and 50-yards. The top line is calibrated for 20-yards, the second line for 30-yards, the third line for 40-yards, and the bottom partial line for 50-yards.

Note: Exact yardages for your scope may vary based on the speed of the crossbow. Adjust windage and elevation in the same manner as described above.

Pro-40 Multi-Dot Scope

The Pro-40 Multi-Dot Scope is calibrated for crossbows shooting in the 330-foot per second range and is equipped with three dots calibrated for 20, 30, and 40-yards. The top dot is calibrated for 20-yards, the center for 30-yards and the bottom for 40-yards.

Note: Exact yardages for your scope may vary based on the speed of the crossbow. Adjust windage and elevation in the same manner as described above.

Scope Battery

The illuminated scopes require a lithium 2032 size battery. Lithium batteries have a shelf life of up to ten years. They operate in temperatures far below that of other power cells. The battery's life-in-use depends upon the number of hours and brightness intensity while in service. Therefore, **YOU SHOULD ALWAYS CARRY A SPARE BATTERY IN THE FIELD TO BE SAFE.** The battery is located under the intensity dial cover. Unscrew the intensity dial cap to access it.

Battery Care

Keep the scope away from acid, alkaline, and other corrosives. Remove dust and dirt on the surface of the scope with a soft cloth or soft tissue with a small amount of alcohol.

SIGHTING PIN SIGHTS

For precision sighting, work from a bench rest starting at a distance of 10-yards from your target.

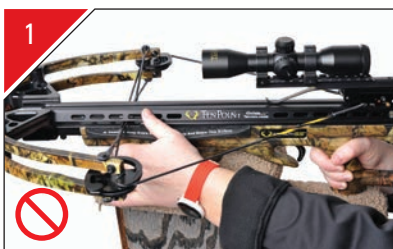
⚠ DANGER Your fore-grip hand is particularly vulnerable when shooting off a bench rest. Make sure you do not allow that hand to rotate to the side of the grip or to slide in front of the grip, thereby allowing your thumb and/or fingers to move above the flight deck and into the release path of the bowstring. Again, if you fire the crossbow with your thumb and/or fingers in the release path of the bowstring, you will seriously injure and possibly amputate them. A safe way to position the fore-grip hand is to place it flat on the bench rest with your fingers pointing toward your target. Spread the thumb away from the fingers to form a "V". Position the fore-grip flat on the bench rest in front of your hand and slide the back end of the grip into the "V" (photos 1-3).

Models with a GripSafety: Grip the fore-grip conventionally in order to depress the GripSafety with your thumb (photo 4).

Looking through your rear peep-sight, center the sight pin in the peep and then align the pin with your target. Shoot several arrows at the same spot to establish a grouping pattern. If your arrows are not grouped tightly, review your shooting technique as one option. It is possible there could be a flaw in your shooting technique.

Loosen the elevation (up & down) lock nut on your sight pin. Correct for elevation first since it is the easier of the two to correct (photo 5).

To "zero" or correct your sight pin, one simple principle applies: always move the pin in the same direction as the error or impact point of your arrow grouping (i.e. follow the arrow). For example, if the impact point of your group is too low, lower the sight pin to correct the error. If you are shooting too high, raise the pin to correct the error. Once you make your correction, tighten the sight pin lock nut securely.



IMPROPER POSITION. With your fore-grip hand rotated to the side of the grip, you will expose your thumb to the bowstring's release path.



IMPROPER POSITION. With your fore-grip hand positioned in front of the grip, you will expose your thumb to the bowstring's release path.

SIGHTING YOUR CROSSBOW CONT.

SIGHTING PIN SIGHTS CONT.

Repeat the same procedure to correct a windage (right or left) error. Again, correct the error by moving the pin in the direction of the error. That is, move the pin to the right if you are shooting too far to the right and vice-versa.

Move back to 20-yards or the yardage you want your pin set at – and repeat the procedure.

Rear Peep Sight

On all current TenPoint and Wicked Ridge models, the rear (bolt-on style) peep sight (HCA-062) mounts in a fixed position, directly on top of the trigger box (you must remove the scope mount first).

CONVERTING TO PEEP AND PIN SETUP

Crossbows with a fixed sight bridge: (All current TenPoint and Wicked Ridge crossbows) - The rear (bolt-on style) peep sight (HCA-062) and a front sight with one pin (HCA-041) are required. Optional front sight pins, sold separately, (HCA-050) are also available. Or, a complete kit, with peep sight, front sight, and three pins is available (HCA-07110).

Crossbows with an adjustable sight bridge: (Older models with the RangeMaster Rear Scope Adjustment Mechanism or Fixed Position Accessory, i.e. Stealth X-2 or some Pro Elite models), the Peep and Pin Conversion Kit (HCA-071) is required.

Note: Neither TenPoint nor Wicked Ridge current model crossbows have the front sight bracket holes pre-drilled in the riser. Most models have reference marks on the riser as a guide for their placement. Tapped thread size should be 8/32 with a depth of .300.



PROPER POSITION. With your fore-grip hand flat on the bench rest you can position the grip in the “V” between your fingers and thumb (on crossbows not equipped with a GripSafety).



PROPER POSITION. Proper hand position when bench shooting, if your crossbow is equipped with a GripSafety.



1. Elevation lock nut 2. Windage lock nut

TREESTAND SAFETY

▲WARNING Treestand accidents are usually the most dangerous, debilitating, and deadly types of Bowhunting accidents. Make certain you use a Treestand Manufacturer's Association approved treestand, and make sure you watch the Treestand Safety DVD included with your purchase.

▲WARNING Always wear a safety belt or harness when hunting from a treestand because a fall could result in death or serious personal injury. Check it to make certain it is in good condition and securely fastened.

▲WARNING To further guard against a life-threatening fall, buy and install an approved climber's lifeline with each treestand you purchase, and always keep your harness safety-strap attached to your lifeline while in your stand and while ascending and descending from your stand. As you climb, make sure you anchor both hands securely with each step you take.

▲WARNING Cock, but do not load, your crossbow when you arrive at your treestand. It is too dangerous to cock a crossbow from a standing position in your stand. If your crossbow is equipped with an ACUdraw cocking mechanism, you may cock it from a seated position in a stand. It is not safe to manually cock your crossbow or use an ACUdraw 50, ACU-52, ACUrope, or other rope-cocking mechanism in a treestand.

▲WARNING Do not carry your crossbow while climbing up or down a tree because you could lose your balance or the crossbow could catch on the tree/stand and cause you to fall. Attach your unloaded crossbow to a bow retrieval rope with the butt stock pointing up.

▲WARNING Once in your stand, fasten your safety harness to its tree-strap and check to make certain it is secure before sitting down. Then you are in a safe position to hoist your crossbow.

TREESTAND SAFETY CONT.

⚠ DANGER When handling your crossbow in the treestand or while carrying it when it is cocked, do not grab or hold it by the barrel and fore-stock, thereby putting your hand into the release path of the bowstring. If the bow were to accidentally fire, the string will severely injure your hand or possibly amputate one or more fingers. To keep your hand away from the release path of the bowstring while loading an arrow, carefully hold the arrow with your index and middle fingers and your thumb just behind the broadhead as you slide it into position.

⚠ WARNING Before you load an arrow, check all of your shooting lanes to make sure there are no tree limbs or branches in the way of your crossbow limbs. If your crossbow limbs were to hit a branch or tree limb during the shot, you could damage the bow, knock yourself off your stand, or otherwise seriously injure yourself. Finally, carefully load your arrow, and hang your crossbow on a bow hook or hold it securely in your lap while hunting.

⚠ WARNING Following your hunt, remove your arrow and return and secure it in your quiver. Attach the unloaded crossbow to the bow rope and lower it to the ground. After you disconnect your safety harness from the tree strap, make sure you remain connected to your lifeline before you begin your descent.

ARROW SAFETY AND SELECTION

ARROW AND BROADHEAD SAFETY

⚠ WARNING Broadheads are razor sharp. Do not handle them with your bare hands to avoid serious personal injury or death from bleeding. Make sure broadheads are safely protected by a quiver when storing or transporting arrows.

⚠ WARNING Keep your crossbow and broadheads out of the reach of children.

⚠ WARNING Inspect your arrows before shooting them to determine that they are not bent or damaged. Never use an arrow with a bent shaft, damaged nock or fletching, or with a missing insert or field point/broadhead because it could cause the crossbow to operate improperly and/or the arrow to fly in an unintended direction, potentially seriously injuring you or a bystander.

⚠ WARNING Use standard-weight arrows weighing at least 420-grains on Wicked Ridge models or TenPoint models manufactured before 2012. You may also use TenPoint's 370-grain lightweight arrow on 2012 or later TenPoint models. Arrows heavier than 420-grains are acceptable on all TenPoint and Wicked Ridge crossbows as well. Using arrows lighter than what is specified by the manufacturer can cause a dry-fire effect and may cause the limbs to break resulting in serious personal injury.

NOTICE You may use arrows weighing 350-grains or more when shooting TenPoint recurve models.

⚠ WARNING Do not use small diameter arrows (less than 22/64ths) or arrows with moon or capture nocks because they may cause the crossbow to malfunction and may seriously injure you or others.

⚠ WARNING Inspect carbon arrow shafts for hairline fractures or cracks. Firing a damaged carbon shaft can cause it to shatter, scattering fragments, which could seriously injure you or others.

ARROW SELECTION

TenPoint is the one-stop source for crossbow arrows. Our five-arrow Easton® lineup of lightweight, standard-weight, and heavyweight crossbow arrows offer you the perfect arrow for whichever shooting or hunting situation you face.

NOTICE All TenPoint arrows are fabricated with our patented Omni-Nocks, and all TenPoint and Wicked Ridge Crossbows now require Omni-Nocks.

ARROW SAFETY AND SELECTION CONT.

ARROW SELECTION CONT.

The Omni-Nock design features six micro-grooves that form three string alignment channels. These channels eliminate the indexing problem associated with moon and capture nocks. On today's narrower crossbows with acute string angles, the Omni-Nock also keeps the bowstring from shooting over or under an arrow. Even if you slightly misalign your vane when you load an arrow, the Omni-Nock will self-correct the alignment as acceleration begins.

WHAT TO CONSIDER WHEN CHOOSING ARROWS

F.O.C. (Front-of-Center)

Understanding the concept of F.O.C. weight distribution is helpful when selecting arrows. F.O.C., or front-of-center, is the percentage of an arrow's length, forward of its center, which marks the location of its balance point.

To calculate the F.O.C. percentage, measure the distance from the center of the arrow to its balance point, and divide that measurement by the arrow's total finished length. The result is the F.O.C. percentage. For example, if the balance point of a 20-inch arrow is located 2-inches in front of its center, the arrow's F.O.C. percentage is 2 divided by 20, or 10%.

All other flight factors being equal, shafts with an optimal F.O.C. percentage will fly most accurately. Based on our testing over the past 20 years, the optimal F.O.C. percentage lies between 13% and 16%.

Arrow Weight

Lightweight Arrows (350 - 400-grains):

While lightweight arrows shoot faster and flatter than standard-weight or heavyweight arrows, they generate less kinetic energy. They lose their speed and energy faster and absorb less bow energy than standard or heavy arrows, thereby increasing bow vibration, limb stress, and noise. Check your manufacturer's arrow recommendations before selecting a light arrow. With lighter spines that carry less momentum, lightweight arrows are less stable, less accurate down range, and more easily deflected by wind, rain, and/or debris.

Their major advantage is speed and trajectory. In favorable conditions and with a bow that can handle them, lightweight arrows can minimize yardage miscalculations.

Standard-Weight Arrows (400 – 435-grains):

Standard-weight arrows deliver an optimum blend of speed and kinetic energy, making them ideal **all-purpose** hunting arrows that meet most manufacturers' requirements. Their weight allows them to absorb a higher percentage of a crossbow's energy, thereby reducing vibration, stress, noise, and the likelihood of bow damage. Their increased weight makes them generate and retain more kinetic energy than lightweight arrows for improved accuracy and power down range.

Their advantage is that their blend of speed and power makes them effective and suitable for nearly all hunting and shooting circumstances.

Heavyweight Arrows (435 - 750-grains):

While not as fast as lightweight or standard-weight arrows, heavyweight arrows generate the most kinetic energy, are more stable in flight, and shoot tighter groups down range. Their weight absorbs a high percentage of a crossbow's energy, thereby reducing vibration, stress, noise, and the likelihood of any bow damage. They carry impressive momentum in flight and are, therefore, less likely to deflect due to wind, rain, and/or debris. While their rate of speed and kinetic energy dissipation is better than lightweight arrows, they, nevertheless, lose trajectory down range faster, making judging distance more critical when using them.

Their advantage is their power, flight stability, and their superior accuracy at longer distances. They also are the ideal arrow for hunting the largest of big game.

ARROW SAFETY AND SELECTION CONT.

WHAT TO CONSIDER WHEN CHOOSING ARROWS CONT.

Available Performance Data

TenPoint has compiled detailed performance data for the five arrow choices listed below that is available on our website, (www.tenpointcrossbows.com). This data shows the arrow speed, kinetic energy, and trajectory of each of the shafts at muzzle and 10-yard increments out to 50-yards. By analyzing the data, weight characteristics, and F.O.C. for each shaft you can select the arrow that best suits your needs.

We have also included performance data for our standard-weight Wicked Ridge arrow (a 6th arrow).

Disclaimer: We conducted all of our testing indoors from a shooting bench, using a 185-pound TenPoint crossbow that shoots a 420-grain, XX75 Easton® 2219, 20-inch Magnum aluminum arrow at a muzzle velocity of 325 feet-per-second. While the general conclusions we reached following the testing are completely sound, specific data will differ for your crossbow depending on its muzzle velocity. We recommend you conduct your own tests with your crossbow to develop exact speeds, kinetic energy, and trajectory curves.

TENPOINT & WICKED RIDGE ARROW CHOICES

Pro Lite™ Carbon Arrow

LIGHTWEIGHT

370-grains (with 100-grain field point or broadhead) – Balanced at 10% F.O.C.

The Pro Lite 20-inch 22/64ths diameter Easton® carbon fiber arrow is fletched slightly offset with Arizona Archery Enterprises, Inc. (AAE) EP-40 Elite Plastifletch 3 7/8" vanes. It is fitted with a 25-grain aluminum insert and TenPoint's neon green Superbrite™ Omni-Nock.

Note: Do not use the Pro Lite arrow with most pre-2012 TenPoint Crossbows

**11.9% loss of speed
over 50-yards**

**25.2% loss of kinetic
energy over 50-yards**

3-inch group at 50-yards

Pro V22™ – Carbon Arrow

(recommended arrow for Vapor™ crossbow)

STANDARD-WEIGHT

420-grains (with 100-grain field point or broadhead) – Balanced at 10.5% F.O.C.

The Pro V22™ 22-inch, 22/64ths diameter Easton® carbon fiber arrow is fletched slightly offset with Easton® BTV vanes. It is fitted with a 24-grain aluminum insert and TenPoint's fluorescent fire orange Superbrite Omni-Nock. Precision engineered by Easton®, Pro V22 shafts are inspected for straightness to within .003 and hand sorted for weight tolerance to within two grains per dozen.

**8.9% loss of speed
over 50-yards**

**18.7% loss of kinetic
energy over 50-yards**

2.25-inch group at 50-yards

Pro Elite™ Carbon Arrow

STANDARD-WEIGHT

425-grains (with 100-grain field point or broadhead) – Balanced at 13% F.O.C.

The Pro Elite 20-inch 22/64ths diameter Easton® carbon fiber arrow is fletched slightly offset with AAE EP-40 Elite Plastifletch 3 7/8" vanes. It is fitted with a 68-grain brass insert and TenPoint's neon yellow Superbrite Omni-Nock. Precision engineered by Easton®, Pro Elite shafts are inspected for straightness to within .003 and hand-sorted for weight tolerance to within two grains per dozen.

**8.9% loss of speed
over 50-yards**

**18.7% loss of kinetic
energy over 50-yards**

2-inch group at 50-yards

ARROW SAFETY AND SELECTION CONT.

TENPOINT & WICKED RIDGE ARROW CHOICES CONT.

XX75 Magnum 20-inch, 2219 Easton® Aluminum Arrow

STANDARD-WEIGHT

436-grains (with 100-grain field point or broadhead) – Balanced at 7% F.O.C.

The XX75 Magnum 20-inch, 2219 Easton® aluminum arrow is fletched slightly offset with AAE EP-40 Elite Plastifletch 3 7/8" vanes. It is fitted with a 13-grain CPC carbon insert and TenPoint's neon orange Superbrite Omni-Nock. Precision engineered by Easton®, Magnum shafts are inspected for straightness to within .003 and hand sorted for weight tolerance to within two grains per dozen.

7.6% loss of speed
over 50-yards

15.9% loss of kinetic
energy over 50-yards

2.5-inch group at 50-yards

FULL METAL JACKET™ Aluminum Arrow

HEAVYWEIGHT

545-grains (with 100-grain field point or broadhead) – Balanced at 15% F.O.C.

The Full Metal Jacket™ 20-inch, 2219 Easton® arrow is fletched slightly offset with AAE EP-40 Elite Plastifletch 3 7/8" vanes and fitted with a 120-grain brass insert and white titanium dioxide Superbrite Omni-Nock. Precision engineered by Easton®, Full Metal Jacket™ shafts are inspected for straightness to within .003 and hand sorted for weight tolerance to within two grains per dozen.

7.6% loss of speed
over 50-yards

15.8% loss of kinetic
energy over 50-yards

1-inch group at 50-yards

WICKED RIDGE 5086 Aluminum Arrow

STANDARD-WEIGHT

445-grains (with 100-grain field point or broadhead) – Balanced at 8.1% F.O.C.

The Wicked Ridge 20-inch Easton® arrow is fletched slightly offset with Norway DURAVANES™ and fitted with a 29-grain CPC insert and orange SuperBrite Omni-Nocks. This shaft is the proven industry standard for reliable results.

6.5% loss of speed
over 50-yards

12.5% loss of kinetic
energy over 50-yards

3-inch group at 50-yards

PREVENTIVE MAINTENANCE AND CARE OF YOUR CROSSBOW

MAINTENANCE WARNINGS

▲ WARNING Wear safety glasses when servicing or maintaining your crossbow to protect your eyes from being injured if the limbs were to shatter and/or the bowstring, cables, or cocking unit cords were to break.

▲ WARNING Your crossbow must be uncocked and unloaded before conducting any maintenance on it.

▲ WARNING Do not modify your crossbow or remove or deactivate its safety features because this could cause it to malfunction and create a dangerous situation.

▲ WARNING Do not attempt to adjust your crossbow's draw weight or to change its cables, limbs, or string because improper installation or adjustments could cause it to malfunction and create a dangerous situation.

Have a qualified professional with the proper training and tools perform these tasks.

▲ WARNING Carefully examine your crossbow for worn, loose, damaged, or missing parts every time before you use it. A damaged crossbow, or one in need of maintenance or repair, could be dangerous to you or others.

▲ WARNING Do not use your crossbow if it is not in top working condition because equipment failure could cause injury to you or bystanders. Contact customer service.

PREVENTIVE MAINTENANCE AND CARE OF YOUR CROSSBOW CONT.

MAINTENANCE WARNINGS CONT.

NOTICE

Do not apply string wax to the center serving, barrel or trigger because the wax will collect inside the trigger mechanism and eventually prevent the string from latching properly.

NOTICE

Do not use heavy oil, grease or substances similar to petroleum jelly because they will attract dust and grit that will work their way into the trigger housing, making it sluggish and possibly inoperable in cold weather.

⚠ WARNING

Do not cock your crossbow if the bowstring or cables are worn or frayed because they could break resulting in serious personal injury.

MAINTENANCE PROCEDURES

The best maintenance program begins by thoroughly checking for worn, loose, damaged or missing parts every time you use your crossbow.

1. Immediately replace frayed or worn strings and cables:

Keep your strings and cables moist and extend their life with a high-quality string wax such as TenPoint's String Wax and Conditioner (HCA-11007). Do not apply string wax to the center serving, barrel or trigger – the wax will collect inside the trigger mechanism and eventually prevent the string from latching properly.

Note: TenPoint recommends changing both string and cables every other year under normal hunting/shooting conditions.

2. General Lubrication:

Use a high quality barrel or rail lubricant such as TenPoint Crossbow Technologies Flight Rail / Trigger Lube (HCA-111) or Microlon's® Precision Oiler (HCA-11106) to increase arrow speed, reduce friction, and extend the life of your center serving. Its unique metal penetrating characteristics provide optimum lubrication without an oily or greasy film.

To lubricate your flight rail, apply a drop of lube on each side of the rail, then spread the lube the length of the barrel with your finger. Applying the flight rail lubricant approximately every 75 to 100 shots, or Microlon's® Precision Oiler every 150 to 200 shots, should be adequate (photo 1).

Note: Applying too much rail lube can break down your string serving.

Also regularly apply a drop of lube to your wheels/cams and axles. Do not use heavy oil, grease or substances similar to petroleum jelly to lubricate your crossbow parts because they will attract dust and grit and will work their way into your trigger housing making it sluggish and perhaps inoperable in cold weather.

3. Keep your trigger dry and occasionally lubricate it:

After using your crossbow in damp or wet conditions, dry its trigger parts by aiming a blow dryer through the various holes that lead to its interior parts. To avoid rusting, spray the interior of the trigger with WD-40 (or comparable material to displace water/moisture only) before you apply trigger lube or Microlon's® Precision Oiler.

Note: A crossbow with rusty trigger box parts will be extremely difficult to cock and will need to be sent back to the factory for cleaning and/or repair.



Lubricate your flight rail approximately every 75 to 100 shots with flight rail lubricant or 150 to 200 shots with Microlon's® Precision Oiler.



Lubricate the PowerTouch Trigger through the safety slide window.



Apply a drop just inside the closed end of the trigger's string slot.



Loosen locking setscrews before turning the main assembly bolt or limb bolts (limb bolt locking setscrews only on certain older-series TenPoint Series crossbow models).

PREVENTIVE MAINTENANCE AND CARE OF YOUR CROSSBOW CONT.

MAINTENANCE PROCEDURES CONT.

Apply a drop of lube through the PowerTouch Trigger's safety knob window while it is in both the SAFE (white dot) and FIRE (red dot) positions (photo 2). Also apply a drop inside the closed end of the trigger's string slot to lubricate the safety slide and string latch (photo 3).

4. Storage:

Do not expose your crossbow to excessive heat such as leaving it in an automobile trunk on a hot day, a hot attic or storing it next to a furnace. Store it in a cool, dry place. Storing your crossbow in an unheated garage or damp basement may cause some of its parts to rust. Again, if you get your crossbow wet, make certain you dry and lubricate it before storing it.

5. Screws and Bolts:

To avoid stripping your main assembly bolt and limb bolts, be certain to loosen their respective locking set screws (on models that employ them) before tightening or loosening them (photo 4).

Note: TenPoint does not recommend loosening limb bolts to relieve string pressure in the off-season.

6. TenPoint Crossbow Technologies is the only repair facility for repairs/replacements on trigger boxes and limbs (with the exception of locations outside of the continental U.S.).

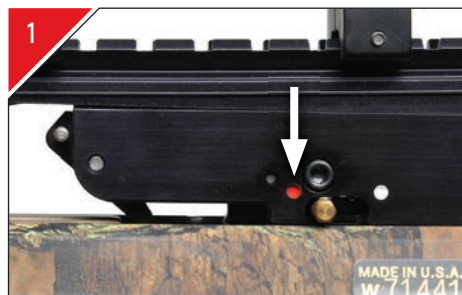
Note: Unauthorized repairs may void your warranty. If repairs are necessary, contact the Customer Service Department at 330-628-9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number and shipping and payment instructions.

CROSSBOW TROUBLESHOOTING

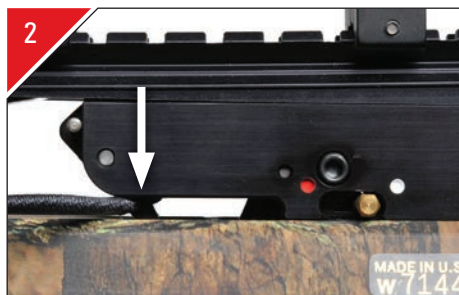
Not all issues associated with your crossbow will require service. This troubleshooting section addresses common problems with your crossbow. If, after reviewing this section, you have not solved your problem, contact the TenPoint/Wicked Ridge Customer Service Department at 330-628-9245 option #2, or email your Return Authorization repair request at www.tenpointcrossbows.com.

My crossbow will not cock.

- Before cocking your crossbow, the safety knob must be in the FIRE position (forward, toward the red dot). Otherwise, the string latch will not engage or hold the bowstring. If you try to cock your crossbow with the safety in the SAFE position (rearward, toward the white dot), the DFI (Dry-Fire-Inhibitor) will catch and hold the string, making the crossbow appear to be cocked. However, when the DFI - instead of the string latch – holds the bow string, you cannot fire the crossbow. When cocked correctly, the bowstring will automatically set the safety and the string latch will grasp and hold the string (see photos 1, 2 & 3).



Make sure the trigger's safety is in the FIRE position (forward, toward the red dot) before cocking your crossbow.



If you try to cock the crossbow while the safety is in the SAFE position (rearward, toward the white dot), the DFI will hold the bowstring and the bow will only appear to be cocked.



When you cock your crossbow correctly, the safety will automatically move to the SAFE position (rearward, toward the white dot), and the string latch will engage the string.

CROSSBOW TROUBLESHOOTING CONT.

Note: If the DFI is holding the bowstring, move the safety to the FIRE position (forward, toward the red dot), and complete the cocking motion. You will hear the string latch drop and see the safety engage as the safety knob moves into the SAFE position (rearward, toward the white dot).

- The moving parts inside the trigger housing may be too dry or rusted. Add a small drop of light-weight oil or Microlon's® Precision Oiler in front of, and behind the safety slide on each side of the trigger box.

Note: Use WD-40® to displace water/moisture only – do not use it as a lubricant. Contact Customer Service if lubricating the trigger does not solve the problem.

- You may have used a heavy grease, wax or a petroleum jelly-type substance on the rail or in the trigger box. If so, send the crossbow back to the factory for cleaning. Contact Customer Service.

My string and/or cables are fuzzy, fraying or cut.

- Apply a thin coat of wax to the string (excluding the serving) and/or cables and burnish it (rub the string/cables briskly between your fingers, creating heat and melting the wax).
- Do not attempt to use your crossbow if the string and/or cables are frayed or cut. Contact Customer Service if the string and/or cables need replaced.

My string serving is separating or coming apart.

- If the crossbow string had been previously removed and/or replaced, it may have been installed incorrectly. See the section entitled "String & Cable Adjustment Charts".
- The rail (barrel) may have been over-oiled. Over-oiling will saturate the string serving and cause it to come off in chunks. Contact Customer Service. The string will either need to be replaced, or re-served.
- The main assembly bolt may not be tight enough on crossbows with a composite stock and barrel. Refer to the model-specific Assembly Instructions.

My trigger's safety is either too stiff or too sloppy.

- If the tension is too light, your safety may slip into the SAFE position (rearward, toward the white dot) after a shot, which is not desirable since you cannot successfully cock your crossbow from that position.
- First, remove the scope. To adjust the tension in a PowerTouch trigger, insert an Allen wrench (5/64ths) in the hole located on top of the dovetail scope mount, locate the adjustment screw and turn it slightly clockwise to increase the tension or counter-clockwise to ease the tension.

Note: Adjusting the safety will NOT lower the poundage on the trigger pull.

My shot groupings are erratic.

- Inaccurate cocking is the most frequent cause of inaccurate shooting. With any crossbow, if the bowstring is not perfectly centered on the string latch when cocked, the bow will not shoot straight. To ensure a perfect draw, grab the string along the sides of the barrel with all four fingers of each hand. Slide the hands together so that the index fingers of both are clearly against the sides of the barrel (our ACRA-ANGLE barrel allows you to slide your index fingers along the barrel without getting pinched).
- Make sure screws have not vibrated loose. Check tightness of the foot stirrup setscrews, main assembly bolt and setscrew (loosen the setscrew before trying to tighten the main assembly bolt), stock screws, barrel screws, scope ring screws, etc.
- The scope may be defective. Contact Customer Service.
- If your groupings are tight using field points but erratic using broadheads, you probably need to "tune" your arrows. If your shaft wobbles when you spin it on the tip of its broadhead, that is a sign your arrow/broadhead combination needs tuned. A tuned arrow has a straight shaft with a broadhead point that is perfectly centered at the end of the shaft. If you do not have the equipment to straighten shafts and re-set inserts, have your pro shop tune your arrows.

My camo is coming off the crossbow.

- Some surfaces of the crossbow will show signs of wear and tear from normal use. If there is a question about wear and tear, TenPoint/Wicked Ridge must determine whether it is excessive or normal. Contact Customer Service for assistance.

RETURNING YOUR CROSSBOW FOR SERVICE

Before returning product to TenPoint or Wicked Ridge, you must complete a Return Authorization request form at www.tenpointcrossbows.com > Support > Return Authorization Form> or call the Customer Service Department for a Return Authorization Number (RA Number) at 330-628-9245 and select option #2.

Missing or incorrect information will result in a delay when processing the RA number request.

To complete the Return Authorization request, you must provide a valid serial number, crossbow model name and owner's name, address, and telephone number. The crossbow serial number is located on a "Made in U.S.A." sticker that is located on the left side of the crossbow barrel on TenPoint thumbhole stock crossbows and Wicked Ridge crossbows. The serial number is located between the top and bottom barrels on crossbows formerly known as 6 Point Series. The model name is located on the right side of the crossbow.

An RA Number is valid for 30 days. After 30 days you must call and request another number.

All returns must have the RA Number boldly marked on the outside of each box, be properly packaged to prevent damage during shipment, and be shipped "freight prepaid" (freight collect and COD returns will not be accepted).

Note: Remove the bow assembly from the stock assembly before shipping your crossbow back to TenPoint/Wicked Ridge. Shipping an assembled crossbow is expensive and TenPoint/Wicked Ridge will not assume/reimburse freight charges to/from the Warranty Department regardless of warranty determination.

Please include a description of the problem, your name, address, and telephone number inside the box.

SHIP TO: TenPoint Crossbow Technologies
(or Wicked Ridge Crossbows)
1325 Waterloo Road
Mogadore, Ohio 44260

TenPoint will not accept returns without an RA Number on the outside of the box or refund freight charges.

The Customer Service Department will evaluate product under our warranty provisions. The Warranty Department will determine if the product is covered under the warranty and will - at its sole discretion - determine whether to repair or replace it.

The Customer Service Department will contact you if payment is required. We will return product when repairs are completed and payment, if required, is made.

STRING AND CABLE ADJUSTMENT

Crossbow Model	Strings	String Twists	Cables	Cable Twists
Huntsman 1994-1997	Upgrade Required	13 (after upgrade)	Upgrade Required	13 (after upgrade)
Huntsman 1998	Upgrade Required	13 (after upgrade)	Upgrade Required	13 (after upgrade)
HuntMaster (w/o yokes) (1994-1995)	HCA-115	13	Upgrade Required	13 (after upgrade)
HuntMaster (w/yokes) 1995-1997	HCA-115	13	HCA-124	13
HuntMaster TL-4 1998	HCA-115	13	HCA-124	13
458 Magnum 1996-1997	HCA-119	13	HCA-124	13
458 Magnum TL-4 1998-1999	HCA-115	13	HCA-124	13
Woodsman, Woodsman Plus & Woodsman SE	Upgrade Required	13 (after upgrade)	Upgrade Required	13 (after upgrade)
Slider, Titan TL-7, Titan TL-4, Titan, Titan II & Titan SE	Upgrade Required	13 (after upgrade)	Upgrade Required	13 (after upgrade)
Turbo Extreme & Magnum Extreme	HCA-115	13	HCA-124	13
Elite X-2, Magnum X-2, Stealth X-2 & Turbo X-2	HCA-115	13	HCA-124	13
Hybrid Lite & Elite Lite	HCA-115	13	HCA-124	13
Pro Fusion, Pro Slider & Titan HLX	HCA-115	13	HCA-124	13
Pro Elite, Elite, Elite QX-4 & QX-4	HCA-115	13	HCA-124	13
Maverick HP, Pro Elite HP, Blazer HP & Lazer HP	HCA-115	13	HCA-124	13

STRING AND CABLE ADJUSTMENT CONT.

Crossbow Model	Strings	String Twists	Cables	Cable Twists
Phantom Xtra, Phantom CLS, Shadow CLS & Defender CLS	HCA-11607	16-18	HCA-12307	6-8
Carbon Xtra CLS & Carbon Fusion CLS	HCA-11607	16-18	HCA-12307	6-8
Stealth XLT & Turbo XLT	HCA-12110	14-16	HCA-12710	5-7
Turbo XLT II, Carbon Elite XLT & Stealth SS	HCA-12112	14-16	HCA-12912	9-11
Shadow Ultra-Lite & Tactical XLT	HCA-12112-R	14-16	HCA-12912-R	9-11
Titan Xtreme	HCA-11712	14-16	HCA-12612	10-12
GT Curve, GT Flex & GT Mag	HCA-12008	16-20*	N/A	N/A
Vapor	HCA-11813	Pre-Twisted	HCA-12813	Pre-Twisted**
Venom	HCA-12014	Pre-Twisted	HCA-12514	Pre-Twisted
Invader & Invader HP	WRA182	18	WRA162	11
Warrior & Warrior HL	WRA182	13	WRA162	18
Raider CLS	WRA183	18	WRA163	11

Note: When installing most cables, twist the bottom yoke (located at the end of each cable) four times and the top yoke one time. Twisting the cable yokes will eliminate limb twist when cocking your crossbow.

* Final tiller measurement for the GT Flex should be 4 3/8-inches to 4 1/2-inches.

**Twist the Vapor top yokes three full twists, and the bottom yokes three full twists – the string & cables are pre-twisted, and do not require additional twists.

STRING AND CABLE ADJUSTMENTS

Part Number (Strings)	Length	Materials
HCA-115	37.5"	D-75 - 28 strands
HCA-119	36.625"	Fast Flight - 30 strands
HCA-11607	34.5"	D-75 - 30 strands
HCA-11712	33.875"	D-75 - 28 strands
HCA-11813	37.125"	8190G – 44 strands
HCA-12008	35.625" incl. 2" loops	452X – 40 strands
HCA-12014	32.1875"	D-97 - 28 strands
HCA-12110	30.75"	D-75 – 30 strands
HCA-12112	32"	D-75 - 30 strands
HCA-12112-R	32"	D-97 - 28 strands
WRA182	37.875"	D-75 - 28 strands
WRA183	34.5"	D-75 - 30 strands
Part Number (Cables)	Length	Materials
HCA-12307	16.625", 12" yoke	D-75 - 28 strands
HCA-124	21.5", 12" yoke	D-75 - 28 strands
HCA-12514	19.6875"	D-97 - 28 strands
HCA-12612	16.875", 12" yoke	D-75 - 28 strands
HCA-12710	13.75", 12" yoke	D-75 - 28 strands
HCA-12813	19.8125", 11" yoke	8190G – 40 strands
HCA-12912	13.625", 12" yoke	D-75 - 28 strands
HCA-12912-R	13.625", 12" yoke	D-97 - 28 strands
WRA162	21.825", 12" yoke	D-75 - 28 strands
WRA163	16.625", 12" yoke	D-75 – 28 strands

TENPOINT LIMITED OPERATIONAL WARRANTY

Subject to the terms, conditions and limitations outlined below, TenPoint Crossbow Technologies, guarantees its crossbows against defects in materials and workmanship that adversely affect the operation of the crossbow for the lifetime of the original owner, except for the bow limbs and scope, which are warranted for five (5) years from the date of purchase, and strings and cables, which are not covered by this warranty.

This warranty only becomes effective if activated by the purchaser within 30 days of the purchase date by completing the warranty card included with the crossbow and mailing it to TenPoint Crossbow Technologies. TenPoint Crossbow Technologies reserves the right, at its sole discretion, to accept proof of purchase in lieu of a completed warranty card.

All warranty/repair returns are to be coordinated directly between the consumer and TenPoint Crossbow Technologies. To make a claim under this warranty, call our Customer Service Department at 330-628-9245 for a Return Authorization Number. TenPoint Crossbow Technologies will not accept returned merchandise without a Return Authorization Number displayed on the outside of the shipping container. Include your name, address, daytime phone number, and a brief description of the claim inside the package. Insure your shipment and send it prepaid via the U.S. Postal Service, FedEx, or UPS.

Limitations of Warranty

The warranty will be void if any of the following occur:

- (1) the instructions in the owner's manual are not followed;
- (2) the crossbow or any of its parts or accessories are altered from their original state;
- (3) the GripSafety is disabled and/or safety wings removed;
- (4) damage is caused by abuse or neglect;
- (5) damage is caused by dry-firing or by using underweight arrows (lighter than recommended in the Owner's Manual); or
- (6) the crossbow is rented or loaned for use by others by a retailer, wholesaler, or shooting range operator, or other commercial business organization, whether or not a fee is charged for its use.

There are no warranties which extend beyond the description on the face hereof.

The sole and exclusive remedy pursuant to this warranty is the repair or replacement of the defective part(s) at the sole discretion of TenPoint Crossbow Technologies. Parts determined to be unsafe will not be returned with the repaired crossbow.

The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

All disclaimers and limitations of liability shall still apply even if the limited remedy of repair and replacement fails of its essential purpose.

In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.

Any action against TenPoint Crossbow Technologies based on an alleged breach of this warranty must be brought within one (1) year of the claimed breach. TenPoint Crossbow Technologies' liability for breach of warranty shall be limited to repair or replacement of the product at the option of TenPoint Crossbow Technologies.

WICKED RIDGE LIMITED OPERATIONAL WARRANTY

Subject to the terms, conditions and limitations outlined below, Wicked Ridge Crossbows guarantees its crossbows against defects in materials and workmanship that adversely affect the operation of the crossbow for five (5) years from the date of purchase by the original owner. Crossbow strings and cables, and ACU-52 cords and power springs, are not covered by this warranty.

This warranty only becomes effective if activated by the purchaser within 30 days of the purchase date by completing the warranty card included with the crossbow and mailing it to Wicked Ridge Crossbows. Wicked Ridge Crossbows reserves the right, at its sole discretion, to accept proof of purchase in lieu of a completed warranty card.

All warranty/repair returns are to be coordinated between the consumer and Wicked Ridge Crossbows. To make a claim under this warranty, call our Customer Service Department at 330-628-9245 for a Return Authorization Number. Wicked Ridge Crossbows will not accept returned merchandise without a Return Authorization Number displayed on the outside of the shipping container. Include your name, address, daytime phone number, and a brief description of the claim inside the package. Insure your shipment and send it prepaid via the U.S. Postal Service, FedEx, or UPS.

Limitations of Warranty

The warranty will be void if any of the following occur:

- (1) the instructions in the owner's manual are not followed;
- (2) the crossbow or any other parts or accessories are altered from their original state;
- (3) damage is caused by abuse or neglect;
- (4) damage is caused by dry-firing or by using underweight arrows (lighter than recommended in the Owner's Manual);
- (5) the crossbow is rented or loaned for use by others by a retailer, wholesaler, or shooting range operator, or other commercial business organization, whether or not a fee is charged for its use.

There are no warranties which extend beyond the description on the face hereof.

The sole and exclusive remedy pursuant to this warranty is the repair or replacement of the defective part(s) at the sole discretion of Wicked Ridge Crossbows. Parts determined to be unsafe will not be returned with the repaired crossbow.

The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

All disclaimers and limitations of liability shall still apply even if the limited remedy of repair and replacement fails of its essential purpose.

In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.

Any action against Wicked Ridge Crossbows based on an alleged breach of this warranty must be brought within one (1) year of the claimed breach. Wicked Ridge Crossbows' liability for breach of warranty shall be limited to repair or replacement of the product at the option of Wicked Ridge Crossbows.

TENPOINT CROSSBOW TECHNOLOGIES® WICKED RIDGE CROSSBOWS®

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