

RECURVE CROSSBOW INSTRUCTION MANUAL



EXCALIBUR 

EXCALIBUR CROSSBOW INC.

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Thank You!

Thank you for purchasing an Excalibur crossbow. We are confident your new crossbow will bring you years of trouble free enjoyment and enhance your hunting experience.

Before you begin working with and shooting your new crossbow, Please read this manual thoroughly. Without proper knowledge and instruction, you could damage your crossbow or cause injury to yourself. When you have read this manual thoroughly and understand it completely, be sure to save it for future reference.

Please watch your video "The Hunting Crossbow" that comes free with every Excalibur Crossbow or view it on our website www.excaliburcrossbow.com.

IMPORTANT SAFETY INSTRUCTIONS FOR: EXCALIBUR MANUAL SAFETY CROSSBOWS

Like most quality firearms, your new EXCALIBUR CROSSBOW comes equipped with a manually engaged safety catch.

This system is stronger and more reliable than an automatic safety under hunting conditions, but requires your attention to move it to the safe (down) position when the crossbow is cocked.

Immediately upon cocking the crossbow you must set the safety, before removing your foot from the stirrup to pick it up.

Never disengage the safety catch until you are ready to shoot and the bow is pointed in a safe direction. Be sure to re-engage the safety if you do not shoot!

SAFETY PRECAUTIONS

1. Always remember to treat your crossbow with the same respect due any sporting arm. It can be dangerous and deadly if mishandled.
2. Always check your crossbow thoroughly for worn, loose, damaged or missing parts prior to shooting. This will help you avoid malfunctions and possible injury to you, your crossbow, or someone else.
3. Never dry fire your crossbow. This can damage your crossbow and will void your warranty.
4. Never point your crossbow at anything you do not intend to shoot. After cocking your crossbow always ensure that the safety is properly engaged immediately.
5. Never release the safety until you are ready to shoot.
6. Do not attempt to modify the safety or trigger mechanism in any way.
7. Never shoot any projectile in your crossbow other than crossbow arrows designed specifically for use with your crossbow, with an overall **length of 20 inches or over and a minimum weight of 350 grain (325 grain minimum for Vixen only)**.
8. Always unstring your bow if it is to be exposed to extreme heat, such as in an enclosed automobile or trunk on a hot day. Excessive heat may damage the limbs of your crossbow. If your crossbow has dissipator bars installed the **pads must be removed before the crossbow is unstrung**.
9. Replace the bow string as soon as it shows any significant sign of wear.
10. Be sure of your target. When hunting, keep in mind that bowhunters and crossbow hunters dress in camouflage clothing and are difficult to identify.
11. Before shooting, be sure the crossbow limbs will not strike a tree limb or other obstacle.
12. Inspect your bolts (arrows) regularly for signs of wear, splits, dents or anything that might weaken them. Tremendous stress is placed on crossbow arrows as they

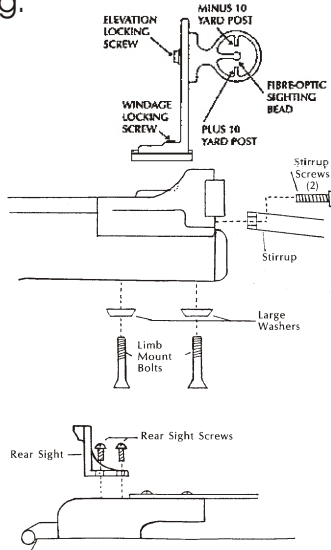
13. If you are carrying hunting broadheads, carry them in such a way that the sharp edges do not cause a threat to the shooter. Be sure they are covered completely.

14. Never place any part of your body into the path of the string or limb travel when your crossbow is cocked. **Be sure that your fingers and thumb are below the crossbows deck before every shot.**

ASSEMBLY

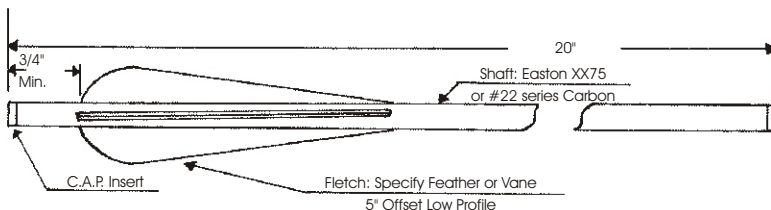
Please refer to drawings (below and on video), as a guide when assembling your new crossbow.

1. Mount the limb system by using the two 5/16" countersunk bolts with the large washers in place.
2. Using two 1/4" round head bolts, mount stirrup to front of limbs.
3. Attach front and rear sights using appropriate screws which are provided.
4. Visually inspect the crossbow and check all fasteners to be sure they are tight. Get in the habit of a quick visual inspection before each outing.



ARROW CONFIGURATION

Your new crossbow is designed to use either 20" long Easton XX75 aluminum arrows in #2213, #2216, #2219 sizes or our 22 Series carbon arrows. Included with our accessory packages are 100 grain broadheads that give an excellent combination of accuracy and cutting diameter.



Arrow Selection Chart

| Crossbow Model | Series 22 Gold-Tip | Aluminum 2213 | Aluminum 2216 | Aluminum 2219 |
|---------------------------|--------------------|---------------|---------------|---------------|
| Vixen V (fps) | 286 | 280 | 273 | 261 |
| KE (ft. lbs) | 65 | 68 | 70 | 72 |
| Phoenix V (fps) | 301 | 294 | 286 | 273 |
| KE (ft. lbs) | 72 | 75 | 77 | 79 |
| Exocet 200 V (fps) | 331 | 323 | 314 | 301 |
| KE (ft. lbs) | 88 | 90 | 93 | 96 |
| Exomax V (fps) | 352 | 345 | 335 | 322 |
| KE (ft. lbs) | 99 | 103 | 106 | 110 |
| Arrow Weight | 360 Grains | 388 Grains | 424 Grains | 478 Grains |

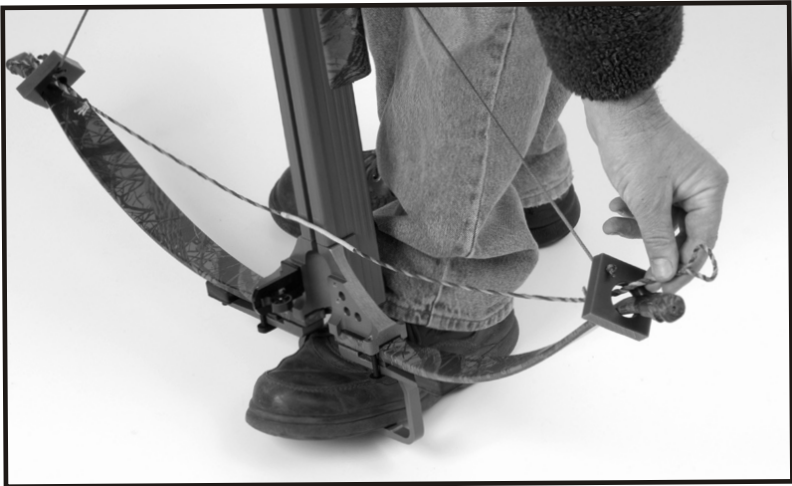
(Test conditions were as follows: Temp. - 72 degrees F., Chronograph - Double window @ 3 ft. from bow. All arrows with 5" vanes & 100 grain tips.)

MANUALLY STRINGING YOUR CROSSBOW

1. Standing on a soft surface (carpet, wood), with the bow aligned, sights away from your body, insert your foot through the stirrup and slip one string loop onto one limb.
2. Grasp the other side of the limb with both hands very close to the end, keeping the other string loop between one thumb and the limb.
3. Using the stirrup as a pivot and putting most of your weight on the foot in the stirrup lean away from the limb which you have grasped, and use your weight to flex the limb towards the bow's stock.
4. Push the string onto the limb when it is flexed far enough to permit this.

**CAUTION: Do not push on stock to permit stringing, as this
Can damage your stock.**

Note: Use of an Excalibur Crossbow Stringer will greatly ease this operation as shown below. Watch video for details of use.



MANUALLY LOADING YOUR CROSSBOW

1. Prior to cocking, place the safety in the "off" or forward position. Pull the trigger to ensure it is ready to accept the string. If you cannot pull the trigger, the safety is still engaged and must be put into the upward position.
2. Place your foot completely through the stirrup. Grasp the string in each hand next to both sides of the mainframe. Learn to use your hands as guides next to the mainframe to center the string each time you load or draw it back. Centering the string consistently will give you proper right to left accuracy. **Note: Be sure to insert your foot far enough into the stirrup that the crossbow cannot slip off of your foot when cocking, as this can cause serious harm to you.**
3. With the safety in the upward or fire position and your arms locked, pull the string back by standing straight up until you hear a click in the trigger housing. The string is now locked into the shooting position.
4. After the string is drawn back, relax string tension slightly to be sure that the string is held securely by the string latch. If the string is not held securely, pull back again until you hear the click in the trigger housing.

Note: Using either the Rope or Crank Cocking Aids ensures proper string alignment and reduces the draw weight by 50%. Watch your video for details on the use of both cocking aids.



5. Engage the safety lever immediately when the string is properly secured by the string latch.

6. Place a proper bolt (arrow) in the flight groove with one fletching down. Slide the bolt towards the trigger assembly under the arrow spring arm, until the end cap touches the string. Remember, never dry fire your crossbow, because it can damage your crossbow.

7. Your crossbow is now loaded and must be handled with extreme caution. **Do not point the crossbow at anything you do not intend to shoot.**

If you ever wish to uncock your crossbow without firing the arrow, the following steps are recommended:

A. Remove arrow.

B. Place foot firmly into stirrup.

C. Grasp string in same position as when cocking crossbow.

D. Move safety to fire position.

E. Put enough tension on string to lift it off of the latch so that the string will not slip out of your hands when the trigger is pulled.

F. Slip right thumb into trigger guard and release trigger. Be sure to keep firm grip on string to keep it from slipping out of your hands, let string slide down barrel to fired position.

G. This technique will require some practice before it is tried in the field.

Note: For information on how to uncock your crossbow using the Rope Cocking Aid please refer to your video.



SIGHTING YOUR CROSSBOW

1. When sighting in, we recommend that you take your first shots at close range (about 10 yards) while sighting down the arrow. Be sure you have a suitable target and a reliable backstop in case you overshoot your mark or in case your arrow passes through the target.

2. After your crossbow is shouldered and pointed down range, you must take the safety off by moving the safety lever upward. Your crossbow is now ready to fire.

NOTE: Be sure that your fingers and thumb are below the crossbow deck to prevent injury.

3. At this point, shoot several arrows by sighting down the arrow and determine point of impact. You are now ready to make sight adjustments so that the rear sight and front sight will be in line with your point of impact.

4. A fibre-optic aperture sight is included with your crossbow. To mount this sight, slide the angled bar onto the dovetailed mounting base and lightly tighten the windage locking screw using the included allen wrench.

First sight the fibre-optic dot using the method above. Once sighted in you will be able to shoot accurately not only at this distance, but by using the top and bottom posts you can compensate for the arrows trajectory.

5. For the best accuracy from your Excalibur Crossbow we recommend using small broadheads, the type included in your "Right Stuff" accessory package.

MAINTENANCE

1. Occasional lubrication of your trigger mechanism is necessary, especially if you are using your crossbow in wet conditions. Use WD-40 or a similar lubricant, applying through the safety slot and into the trigger area.
2. Application of Excalibur Crossbow Deck Wax to the centre serving of the string will greatly lengthen the life expectancy of your crossbow string, do not apply directly to the mainframe.
3. Periodically inspect all fasteners to be sure that they have not vibrated loose from firing, especially those holding sights, scope mounts, or sight pins.
4. Unstringing your crossbow at least between seasons when it is not being used. This will relax the limbs and increase their life expectancy.

WARRANTY

Your Excalibur crossbow is warranted by the manufacturer for five years from the date of purchase.

Proof of purchase in the form of a dated invoice stamped with the vendor's name or similar document must be presented if warranty work is necessary.

Excalibur Crossbow will not be responsible for repairs caused by misuse or abuse! Read this instruction manual carefully and if questions exist, please contact either your dealer or Excalibur Crossbow Inc.

Repairs inside your trigger unit should be performed at the factory only. If repairs are necessary, return both stock and trigger to:

CANADA

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Horizontal Archery
37432-Fifth Avenue,
Sardis, Ohio 4346 USA
Telephone (740) 483-2312

RECOMMENDED ACCESSORIES FOR EXCALIBUR CROSSBOWS

| CODE | DESCRIPTION |
|-----------|---|
| 2225H | EXOMAX Crossbow "Realtree Hardwoods" |
| 2230 | EXOCET-200 Crossbow "Realtree Hardwoods" |
| 2240 | PHOENIX Crossbow "Realtree Hardwoods" |
| 2095B | VIXEN Crossbow "Deerhide Brown" |
| 2280 | VARI-ZONE Scope Accessory Package (For All Excalibur Recurve Crossbows) |
| 2270 | Standard Accessory Package (For All Excalibur Recurve Crossbows) |
| 1982 | "VARI-ZONE" Excalibur Scope 2 x 4 Power - Fits all models |
| 2292 | Flip-Up Blizzard Caps, Fits VARI-ZONE Scope only. |
| 2006 | Scope Mount - Fits all models |
| 2007 | Scope Rings, Excalibur 1" Weaver Style |
| 2008 | Scope Cover-Camo |
| 2294 | Fibre Optic Sight |
| 2026 | Crossbow Sighting Level |
| 1990 | Dissipator Bars (Sound & Recoil Suppression System) |
| 1991 | Replacement Pads for Dissipator Bars |
| 2013 | Buzz Buster Fleece String Silencers - Camo |
| 2035 | Tunerz Rubber String Silencers |
| 2009 | Deck & String Wax |
| 2010 | String - 35.4" (Standard, for use with carved limb tips only) |
| 2097 | Flemish Super String-Hand Made (for carved or molded limb tips) |
| 1989 | Fast Flight Flemish String (for molded tip bows only) |
| 1994 | Excel String (Ultracam for molded tip bows only) |
| 2042 | Sling-Padded with locking swivels-Camo |
| 2004 | Quiver Bracket - Black (Suitable for all crossbows) |
| 2029H | Excalibur 4-Arrow Quiver - Hardwoods Camo |
| 2094 | "CRANKAROO" - Crank Cocking Aid |
| 2195A | Cocking Aid - With T-Handles assembled for Excalibur Crossbows |
| 2096 | Crossbow Stringer (to unstring our recurve crossbow) |
| 2012 | Crossbow Case-Camo/Unlined/with Shoulder Straps |
| 2300 | Crossbow Case-Camo/Padded/Folds into seat pad/w/shoulder straps |
| 7003-SST | Wasp "BOSS" SST 100 gr. Stainless 3-Blade (Pkg of 6) |
| 1986 | T-Handle Arrow Puller |
| 2213F20-6 | Arrows Feather Fletch 20" XX75 Brown (Pkg of 6) |
| 2216F20-6 | Arrows Feather Fletch 20" XX75 Camo (Pkg of 6) |
| 2219F20-6 | Arrows Feather Fletch 20" XX75 Camo (Pkg of 6) |
| 2213V20-6 | Arrows Plastic Vanes 20" XX75 Brown (Pkg of 6) |
| 2216V20-6 | Arrows Plastic Vanes 20" XX75 Camo (Pkg of 6) |
| 2219V20-6 | Arrows Plastic Vanes 20" XX75 Camo (Pkg of 6) |
| 22CAV-6 | Carbon Arrows-Vanes 20", 22 Series w/2 inserts (Pkg of 6) |
| TP100-6 | Target Points, 21/64, 100 gr. (Package of 6) |
| 2180 | Crossbow Stand |
| 2193 | African Safari VHS |
| 2192 | African Safari DVD |

EXCALIBUR



HUNTING CROSSBOW

Specifications

| | EXOMAX | EXOCET 200 | PHOENIX | VIXEN |
|-------------------------|--------------------------|--------------------------|--------------------------|------------------|
| Velocity @ 350 Grain | 355 FPS | 330 FPS | 305 FPS | 285 FPS |
| Draw Weight | 225 lbs. | 200 lbs. | 175 lbs. | 150 lbs. |
| Power Stroke | 16.5" | 15.5" | 14" | 14" |
| Mass Weight | 6.5 lbs. | 6.4 lbs. | 6.3 lbs. | 6 lbs. |
| Overall Length | 39.5" | 38.5" | 37" | 37" |
| Arrow Length | 20" | 20" | 20" | 20" |
| Arrow Weight | 350 Grain Min. | 350 Grain Min. | 350 Grain Min. | 325 Grain Min. |
| Finish | "Realtree Hardwoods"™ | "Realtree Hardwoods"™ | "Realtree Hardwoods"™ | "DEERHIDE BROWN" |
| Dissipator Bar | Yes | Yes | Yes | No |

WARRANTY INFORMATION

Excalibur Crossbows are unconditionally warranted against manufacturing defects for a period of five years from purchase. After that period, warranty will be given at Excalibur's discretion for the lifetime of the original owner.

Printed in Canada

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