

EXCALIBUR

CROSSBOW

HUNTING CROSSBOW SPECIFICATIONS

	EQUINOX	EXOMAX	VORTEX	EXOCET 200	PHOENIX	VIXEN
Velocity @ 350 Grain	350 FPS*	350 FPS*	330 FPS*	330 FPS*	305 FPS*	285 FPS*
Draw Weight	225 lbs.	225 lbs.	200 lbs.	200 lbs.	175 lbs.	150 lbs.
Power Stroke	16.5"	16.5"	15.5"	15.5"	14.5"	13.5"
Mass Weight	6.4 lbs.	6.5 lbs.	6.3 lbs.	6.4 lbs.	6.3 lbs.	6.0 lbs.
Overall Length	38.4"	39.5"	37.4"	38.5"	37.5"	36.5"
Arrow Length	20"	20"	20"	20"	20"	20"
Arrow Weight	350 Grain Min.	350 Grain Min.	350 Grain Min.	350 Grain Min.	350 Grain Min.	325 Grain Min.
Finish	Realtree AP™	Realtree Hardwood™	Realtree AP™	Realtree Hardwood™	Realtree Hardwood™	DEERHIDE BROWN
Stock Style	Thumbhole	Traditional	Thumbhole	Traditional	Traditional	Traditional

*USING OUR OPTIONAL #1989 FLEMISH DYNA-FLIGHT STRING AND MINIMUM ARROW WEIGHT.

Printed in Canada
01/08

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.



2335 Shirley Drive,
Kitchener, Ontario, N2B 3X4 Canada
Bus: (519) 743-6890
Fax: (519) 743-6964
Email: service@excaliburcrossbow.com
Website: www.excaliburcrossbow.com



RECURVE CROSSBOW INSTRUCTION MANUAL

EXCALIBUR CROSSBOW INC.

2335 Shirley Drive.,
Kitchener, Ontario, Canada N2B 3X4
www.excaliburcrossbow.com
Email: service@excaliburcrossbow.com

Congratulations!

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 beginning to assemble and shoot 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 Instructional DVD which comes free with every Excalibur Crossbow or view it on our website www.excaliburcrossbow.com. Call us at 800-463-1817 with any questions regarding safe operation of your new crossbow.

IMPORTANT SAFETY INSTRUCTIONS FOR: EXCALIBUR MANUAL SAFETY CROSSBOWS

1. 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!

2. Always remember to treat your crossbow with the same respect due any sporting arm. It can be dangerous and deadly if mishandled.

3. 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.

RECOMMENDED ACCESSORIES FOR EXCALIBUR CROSSBOWS			
CODE	DESCRIPTION	CODE	DESCRIPTION
2250	EQUINOX Crossbow	2042	Sling-Padded -Camo
2225H	EXOMAX Crossbow	2004	Quiver Bracket - Black
2260	VORTEX Crossbow	2029H	4-Arrow Quiver "Hardwoods"
2230	EXOCET-200 Crossbow	2029A	4-Arrow Quiver AP
2240	PHOENIX Crossbow	2039	Replacement Quiver Bracket
6640	PHOENIX Crossbow Package	2094	"CRANKAROO" - Cocking Aid
2095B	VIXEN Crossbow	2195A	Cocking Aid - Assembled
2500	APEX Target Crossbow	2096	Crossbow Stringer
2500-40	APEX Light Target Crosbow	2012	Crossbow Case-Camo/Unlined
2280	VARI-ZONE Scope Pkg. Hardwoods	2300	Crossbow Case-Camo/Padded
2270	Standard Pkg. Hardwoods®	6008	Crossbow Case-Camo/Deluxe
6650	VARI-ZONE Scope Pkg. AP®	1986	T-Handle Arrow Puller
6660	Standard Pkg. AP®	2213V20-6	Arrows Plastic Vanes (Pkg of 6)
1970	"LUMI-ZONE" Scope	2216V20-6	Arrows Plastic Vanes (Pkg of 6)
1982	"VARI-ZONE" Scope	2219V20-6	Arrows Plastic Vanes (Pkg of 6)
1975	Range Finder Mount	22CAV-6	Firebolt Arrows-Vanes (Pkg of 6)
1979	Dovetail Quiver Bracket	6670	Boltcutter Broadheads 150 gr. (Pkg of 3)
2292	Flip-Up Blizzard Caps "VARI-ZONE"	6671	Boltcutter Replacement Blades (Pkg of 18)
2289	Flip-Up Blizzard Caps "LUMI-ZONE"	6672	X-ACT Mechanical Broadheads 100 gr. (Pkg of 3)
2006	Scope Mount	770-9	X-ACT Replacement Blades (Pkg of 9)
2007	Scope Rings	TP100-6	Target Points 100 gr. (Pkg of 6)
2008	Scope Cover-Camo	TP150-6	Target Points 150 gr. (Pkg of 6)
2294	Fibre Optic Sight	2180	Crossbow Stand
2026	Crossbow Sighting Level	2295-C	Excalibur Camo Hat
1990	Dissipator Bars	2129	Excalibur Crossbow Compulsion DVD
1991	Pads for Dissipator Bars	2191	Bears in the Backwoods DVD
2013	Buzz Busters	2190	Back in the Woods IV DVD
2009	Serving Wax		
2010	String - 35.4"		
2097	Flemish Super String		
1989	Flemish Dyna Flight String		
1994	Excel String		

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. Make sure to treat all fasteners with oil to prevent corrosion.
3. Application of Excalibur Crossbow Servicing Wax (#2009) to the centre serving of the string will greatly lengthen the life expectancy of your crossbow string, do not apply directly to the mainframe.
4. Periodically inspect all fasteners to be sure that they have not vibrated loose from firing, especially those holding sights, scope mounts, or sight pins.
5. The two lines scribed on to the top of your mainframe or rail are designed as a guide for string brace height. Ideally, your string should sit somewhere between these lines. It is acceptable for the string to sit above the top line when a new string is installed as it will stretch with use.
6. If your crossbow is not used for an extended period of time you may choose to unstring it. Unstringing your crossbow will relax the limbs and increase their life expectancy. **Always remove the dissipator pads(#1991) when unstringing your crossbow.**

WARRANTY

Your Excalibur crossbow is warranted by the manufacturer for five years from the date of purchase, complete and return your warranty card . 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 must be performed at the factory only. If repairs are necessary, return both stock and trigger to:

CANADA

EXCALIBUR CROSSBOW INC.
2335 Shirley Drive,
Kitchener, Ontario N2B 3X4
Telephone (519) 743-6890
(800) 463-1817
Fax: 519-743-6964

U.S.A.

Horizontal Archery
37432-Fifth Avenue,
Sardis, Ohio 43946 USA
Telephone (740) 483-2312
www.excaliburcrossbow.com

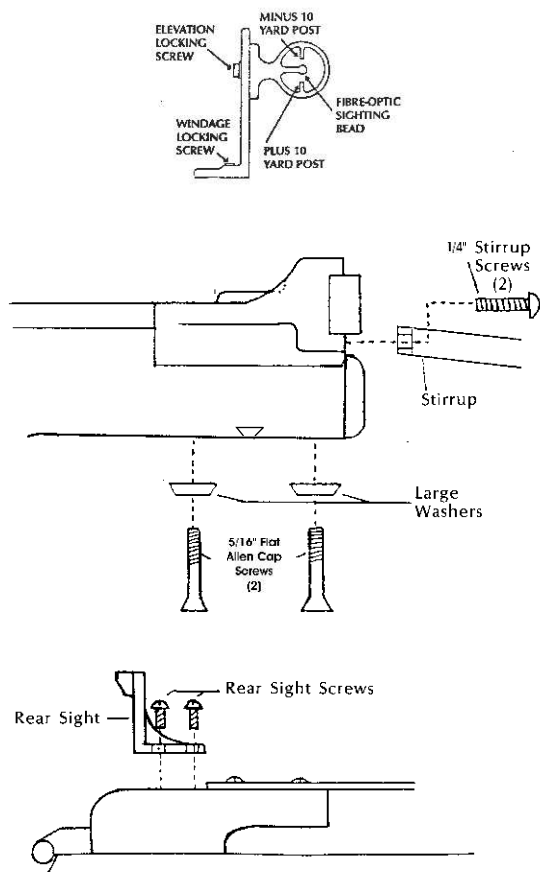
SAFETY INSTRUCTIONS cont'd.

4. **Never dry fire your crossbow.** This can damage your crossbow and will void your warranty.
5. 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.
6. Never release the safety until you are ready to shoot.
7. Do not attempt to modify the safety or trigger mechanism in any way.
8. 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).**
9. 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 to avoid damage.**
10. Replace the bow string as soon as it shows any significant sign of wear.
11. Be sure of your target. When hunting, keep in mind that bowhunters and crossbow hunters dress in camouflage clothing and are difficult to identify.
12. Before shooting, be sure the crossbow limbs will not strike a tree limb or other obstacle.
13. Inspect your arrows regularly for signs of wear, splits, dents or anything that might weaken them. Tremendous stress is placed on crossbow arrows as they are released and damaged arrows could break causing possible injury to your crossbow or the shooter.
14. 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.
15. 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 Instructional DVD as a guide when assembling your new crossbow.

1. Mount the limb system by using the two 5/16" Flat Allen Cap Screws with the large washers in place.
2. Using two 1/4" round head bolts, mount stirrup to front of riser as seen below.
3. Attach front and rear sights using appropriate screws which are provided. The front sight mounts by sliding it on the riser dovetail and securing it with the windage set screw, use allen wrench 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.



SIGHTING YOUR CROSSBOW

1. When sighting in, we recommend that you take your first shots at close range (about 10 yards) . 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 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. See page 3 for mounting instructions.

To adjust the windage, simply slide the sight on the dovetail and tighten the set screw when desired position is acquired. The elevation adjustment is achieved by sliding the sight up or down on its mount, tighten the elevation locking screw when you reach desired elevation. 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 the Excalibur Boltcutter (#6670) broadheads which are included in your "Right Stuff" accessory package. If you wish to use a mechanical style broadhead we recommend the Excalibur X-ACT (#6672).



(Optional #1970 Lumi-Zone scope shown)

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

6. Place a proper arrow in the flight groove with one fletching down. Slide the bolt towards the trigger assembly under the arrow hold down spring arm, until the end cap touches the string.

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:

REMEMBER, NEVER DRY FIRE YOUR CROSSBOW!

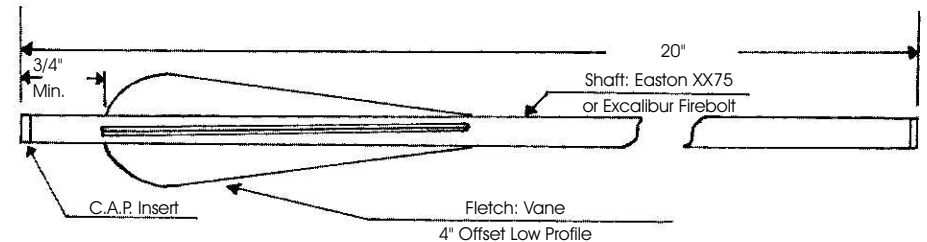
UNCOCKING YOUR CROSSBOW BY HAND

- A. Remove arrow. **Not removing the arrow can cause serious injury**
 - 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 (as shown below) using the Rope Cocking Aid (#2195) please refer to your Instructional DVD for details of use.**



ARROW CONFIGURATION

Your new crossbow is designed to use either 20" long Easton XX75 aluminum arrows in #2213, #2216, #2219 sizes or our Firebolt carbon arrows. Included with our accessory packages are 150 grain Boltcutter broadheads that give an excellent combination of accuracy and cutting diameter.



Arrow Selection Chart

100 Grain Tip using #1989 Flemish Dyna Flight String					100 Grain Tip using #1994 Excel String						
Draw Weight	Arrow	Firebolt	2213	2216	2219	Draw Weight	Arrow	Firebolt	2213	2216	2219
150 lb. FPS		278	277	267	260	150 lb. FPS		265	263	259	251
KE (ft. lbs.)		63	64	66	68	KE (ft. lbs.)		57	57	62	63
175 lb. FPS		305	303	287	282	175 lb. FPS		288	287	280	277
KE (ft. lbs.)		76	76	76	80	KE (ft. lbs.)		68	68	72	77
200 lb. FPS		328	326	317	306	200 lb. FPS		311	310	302	296
KE (ft. lbs.)		88	88	93	94	KE (ft. lbs.)		79	80	84	88
225 lb. FPS		350	347	338	325	225 lb. FPS		333	332	321	314
KE (ft. lbs.)		100	100	106	106	KE (ft. lbs.)		90	91	95	99
Arrow Weight		367	373	416	452	Arrow Weight		367	373	416	452
150 Grain Tip using #1989 Flemish Dyna Flight String					150 Grain Tip using #1994 Excel String						
Draw Weight	Arrow	Firebolt	2213	2216	2219	Draw Weight	Arrow	Firebolt	2213	2216	2219
150 lb. FPS		266	265	257	252	150 lb. FPS		260	256	251	243
KE (ft. lbs.)		66	66	68	71	KE (ft. lbs.)		63	62	65	66
175 lb. FPS		290	289	280	273	175 lb. FPS		282	278	271	268
KE (ft. lbs.)		78	79	81	83	KE (ft. lbs.)		74	73	76	80
200 lb. FPS		314	313	303	298	200 lb. FPS		302	300	290	285
KE (ft. lbs.)		91	92	95	99	KE (ft. lbs.)		85	85	87	91
225 lb. FPS		335	333	325	315	225 lb. FPS		321	320	311	303
KE (ft. lbs.)		104	104	109	111	KE (ft. lbs.)		95	96	100	102
Arrow Weight		417	423	466	502	Arrow Weight		417	423	466	502

Test conditions were as follows:

Temperature	72 degrees F.
Chronograph	Double window @ 3 ft. from bow.
Arrows	4" vanes 100 & 150 grain tips

Note: To determine the draw weight of your crossbow please consult the back page of this manual.

MANUALLY STRINGING YOUR CROSSBOW

1. Standing on a soft surface (carpet, grass), 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 (#2096) will greatly ease the stringing of your crossbow as shown below. Watch Instructional DVD for details of use.



MANUALLY LOADING YOUR CROSSBOW

1. Prior to cocking, place the safety in the red "F" or upward "fire" 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 so that the crossbow cannot slip off 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.
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 (#2195) Rope or (#2094) Crankaroo Cocking Aids ensures proper string alignment and reduces the draw weight by 50% or more. Watch your Instructional DVD for details on the use of both cocking aids.

