

2006 Technical Manual



Adjusting the let off

Before making any adjustments to the limb bolts, the four pocket set screws need to be loosened about one full turn . After adjusting the limb bolts to the desired weight, make sure and tighten the four pocket set screws. **WARNING: DO NOT TURN THE LIMB BOLTS OUT MORE THAN THE RECOMMENDED TWO (2) TURNS!** Doing so could damage the bow, cause limbs to break out of their pockets and result in bodily injury. It will also void of your Elite warranty.

Binary Cam Adjustment and tuning

Binary cams are modular adjusted; (the charts in the following sections will indicate which module and draw stop setting your bow should be set up at.) Draw lengths are available in 1/2 inch increments. All Elite bows are set to peak performance from the factory.

Changing the let off

Changing the let-off is very simple. Your bow may require a post setting and/or module change. The draw stop affects the bow's let-off by stopping the rotation of the cam on the module track before it over rotates and before the cables contact the mod stop post. Let-off can be adjusted up to 80%.

NOTE: Post setting adjustments allow fine tuning to achieve individual draw length requirements, however adjusting the draw length will affect the let-off and the valley at the same time. Achieving an exact let-off at a specific draw length will require some trial and error of minor modifications and/or the use of a draw board and digital scale. See your local Elite dealer for assistance.

SPEED RATINGS...

How manufacturers rate speed

IBO Speed ratings are an industry standard of measurement used by all manufacturers. Speed ratings are based on a bow with a draw weight of 70# and a draw length of 30" using a five (5) grain per pound arrow (350 grain). Any deviation from these settings causes a drop in arrow velocity. The chart below is a general guide for the amount of speed lost when accessories are added to your string.

<u>String Accessories</u>	<u>Speed Loss</u>
String Loop	1-3 fps
Rubber Peep Tube	6-10 fps
E-Buttons	2 fps each
String Silencers	2-6 fps
Peep Sight	3-6 fps
Brass Nock	2-4 fps

Speeds vary depending on placement and manufacturer of string added accessories.
Speed loss of arrows over the IBO standard of five (5) grains per pound (350 grains
@ 70# draw weight)

STIRNG, CABLES AND TUNING FOR ALL ELITE BOWS...

Elite recommends that you cycle the bow 100-125 times to settle the string and cables into the grooves.

To install your peep sight, simply twist the string from the bottom in 1/2-turn increments until the peep sight aligns. In some cases, this may need to be repeated after cycling and additional 150-200 shots

We recommend waxing the string often. To wax the string, apply wax liberally to the entire length of the string. Rub briskly with fingers until the string appears slick. Remove excess wax with a clean towel or cloth. Waxing every other time you shoot will lengthen the life of your string and cable sets.

Only replace your string and cables using 24 stands of BCY 452X. Replacing with other material or reducing the strands will void your warranty.

Setting a center shot on the rest for Elite bows, Measured from the inside of the riser from the burger to the center of the arrow shot, roughly 7/8 of an inch from the hole.

Installing the nocking point on an Elite bow , the nock should be set between 1/8" and 3/8" above center.

Arrow and Arrow Usage

Always inspect your arrows for cracked, bent, or dented shafts. Also inspect the nocks and vanes/feathers and replace damaged or loose ones.

Always be safe and follow all warnings, NEVER aim a bow at another person. NEVER alter your bow. Doing so will VOID any and all warranties and could result in personal injury. Be careful when using broad heads around bow string and cable, nicking or cutting strands of string or cable could cause damage to the bow or personal injury.

If you pull the bow back and decide not to shoot you'll have to "let the bow down", keep your bow arm straight and prepare for a rapid let down of the bow's string. Keep your head and face back out of danger during a let down. NEVER try pulling a bow that has more poundage than you are comfortable pulling.

Changing the Draw length

Changing the draw length on your Elite bow is done by removing the module screw and placing the correct module size onto your cams. You then need to place your draw stop post in the corresponding position for your draw length.

2006 Bows

Specification Sheets and Draw Stop Positions

E-500

	<u>DL (S)</u>	<u>Draw post setting</u>
ATA : 34"		
BH: 7"	30	1.6
Mass Weight: 3.9lbs	29.5	2.9
Draw: 26—30"	29	3.5
IBO: 330-338	28.5	4.5
String: 56 3/8"	28	5.5
Cable: 38 3/16"	27.5	6.2
	27	6.9
	26.5	7.3
	26	8.0

Energy

	<u>DL (S)</u>	<u>Draw post setting</u>
ATA : 36"		
BH: 7 7/16"	31	1.1
Mass Weight:: 4 lbs	30.5	2.1
Peak Weight: 60 –70	30	2.9
IBO: 332-330	29.5	4.3
String: 58 1/2"	29	5.1
Cable: 40"	28.5	5.5
With K8 Cams	28	6.1
	27.5	7.1
	27	8.1

E-Force

	<u>DL (S)</u>	<u>Draw post setting</u>
ATA : 31 5/8"		
BH: 7 3/4"	30	1.7
Mass Weight:: 3.9 lbs	29.5	3.1
Peak Weight: 60 –80	29	3.9
IBO: 324-332	28.5	5.1
String: 54 3/16"	28	5.9
Cable: 35 15/16	27.5	6.4
	27	7.0
	26.5	7.9
	26	8.7

2006 Bows Continued...

Specification Sheets and Draw Stop Positions

ICE

ATA: 31 1/2

BH : 7 1/8"

Mass Weight: 3.3 lbs.

Peak draw weight 40—60

IBO: 304—312

String: 51 3/8"

Cable: 36 7/8"

Position	DL	Draw Stop setting
1	26	.2
2	26.5	3.7
3	26	4.3
4	25.5	5.7
5	25	6.6
6	24.5	7.5
7	24	8.5

Safety and General information

- **Safety should always be thought of first when shooting your compound bow.**
- **NEVER Dry-fire a bow, not only could you cause yourself bodily harm but you will damage your bow. Dry Firing your weapon is NOT covered under warranty.**
- **Shooting underweight arrow can have the same effect as dry firing, and may cause serious injury.**
- **Inspect your arrows, nocks, and screws, and any accessories before each use of your compound bow.**
- **Your bow should be kept clear of dust , mud, and other yuck you might come across. Use a damp cloth to clean your bow, and allow to dry completely before storing.**

Helpful hints and tips

Kinetic Energy is measured using the formula:

$$\text{Kinetic Energy} = (\text{arrow weight}) / 450,800 \times (\text{arrow speed}).$$

Kinetic energy measures the level of penetration your arrow possesses

Draw length

A properly sized bow has to fit your arms. But don't get caught short. The longer you can draw back the bow, the more speed you'll get in your arrow.

- You can measure your wingspan by spreading your arms out and measuring the distance from fingertip to fingertip
- Refer to the chart below for your proper draw length. Add or subtract a half-inch for each inch over or above the wingspans listed below.

Wingspan	Draw length
63	24
64	24 1/2
65	25
66	25 1/2
67	26
68	26 1/2
69	27
70	27 1/2
71	28
72	28 1/2
73	29
74	29 1/2
75	30
76	30 1/2
77	31

Warranty Information

Elite Archery is proud to stand behind the workmanship and overall quality of our compound bows by offering the Limited Lifetime Warranty. This warranty applies to the original owner and is non transferable. The warranty covers the riser, pockets, limbs, and eccentrics against defects in material and workmanship for the lifetime of the bow.

Items not covered by warranty are strings, cables, limb savers, cables slides, cable rod, grip, camo and/or paint and finish. Alterations and modifications made by the consumer will void this warranty. There are no other warranties expressed or implied binding Elite archery its dealers and distributors. Registration card must have been received for warranty to be valid.

