

COMPOUND BOW OWNER'S MANUAL



BUCKMASTERS

Jennings[®]
ARCHERY

Brave

ESCALADE[®]
S P O R T S

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Congratulations! Your new Escalade Sports compound bow is the finest available. It has been engineered for accuracy and long life, and built with quality and pride.

Regular waxing of string and buss cables reduces wear along with serving separations.

Enjoy your new bow!

Record important bow information here and keep for future reference:

Model _____

Weight Range _____

Draw Length _____

String Length _____

Buss Cable and/or Cable Length _____

Purchased From _____

Date Purchased _____

SAFETY FIRST

Before using this equipment, read and follow these manufacturer's instructions carefully. If you have any questions, contact the manufacturer or a qualified dealer or authority.

Never dry-fire you bow.

Never pull back and release the bowstring without an arrow attached. Your bow is designed to transfer energy to a properly weighted arrow.

Warning: Dry-firing a bow severely reduces the life expectancy of the bow and may cause immediate damage to the bow resulting in injury to yourself or others.

Use the proper arrow for you and your bow. If you are unsure about your arrow choice, contact your archery dealer or an arrow manufacturer. A list of manufacturers can be found on page 34.

Warning: Shooting underweight arrows has the same effect as dry-firing and may cause serious injury. Use arrows of the proper length and spine (stiffness) for your bow and shooting style.

Warning: Do not use wooden arrows. They are not designed for use with this compound bow and may cause serious injury.

Inspect your arrows and arrow nocks regularly. Immediately discard any dented, split, splintered or otherwise damaged arrows and replace cracked or broken nocks.

Do not draw your bow beyond its maximum draw length as damage to the limbs, cables and strings could result.

Use of safety glasses is recommended with any archery product.

SAFETY FIRST

Targets and hunting safety

- Be sure of your target. Bowhunters often wear camouflage and are difficult to identify.
- Never aim at anything you don't intend to shoot.
- Never shoot at a target or object unless you are sure that it can stop your arrows. Make sure the area behind and around your target is clear.
- Before shooting, be sure the bow limbs will not strike any tree branches or other obstacles.
- Never point or aim a drawn bow at another person.
- Never draw or shoot when anyone is between you and your target.
- Never allow anyone to retrieve arrows until all arrows have been shot.
- Never shoot arrows straight up in the air or in any direction where you might destroy property or endanger life.

Pre-shooting checklist

Are these items in good condition?
Properly installed? In working order?

___ Cables

___ String

___ String serving

___ Nock set

___ Cable slide

___ Arrow rest

___ Arrow nocks

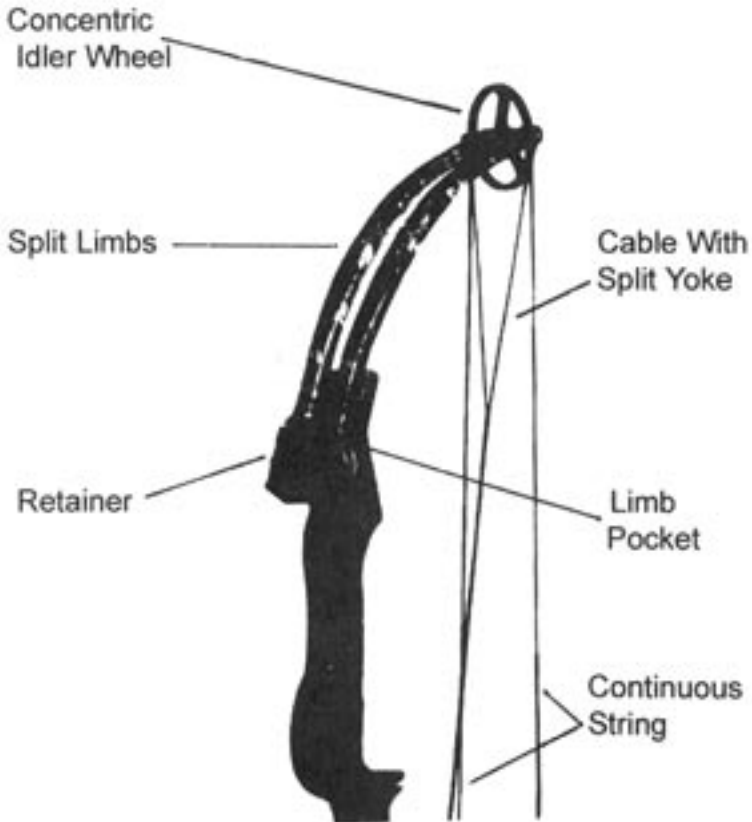
___ Arrow shafts

___ Set screws

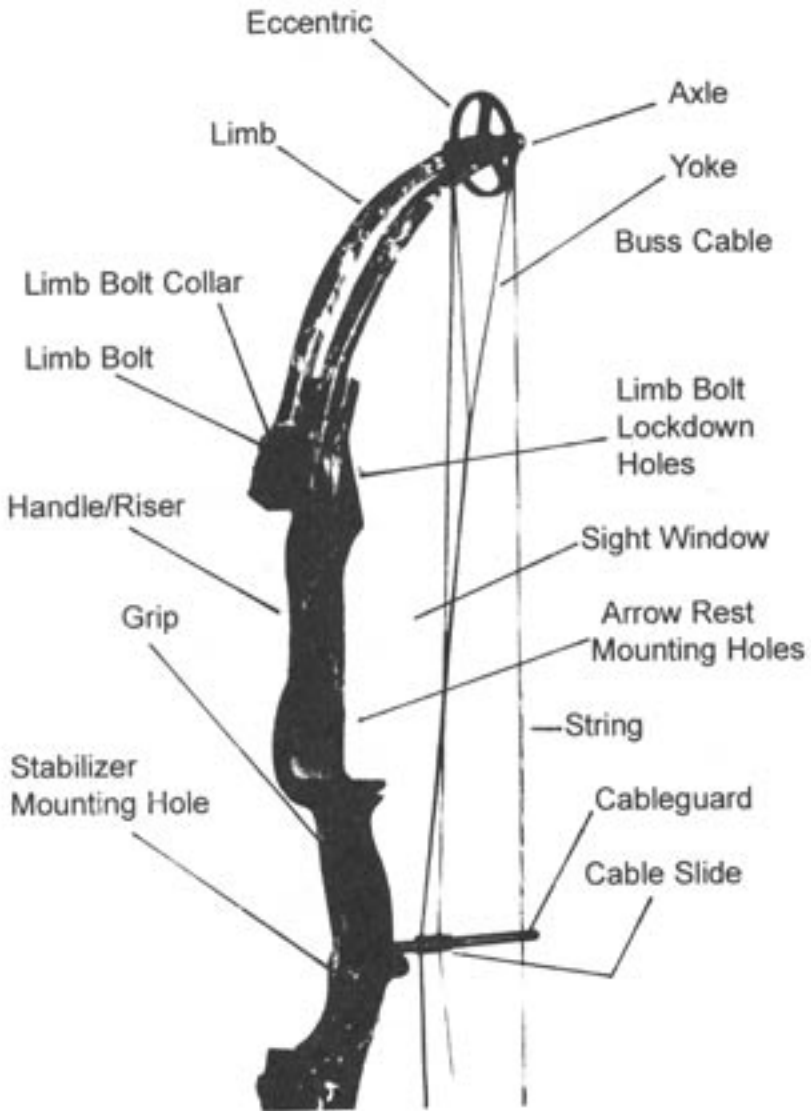
___ Teardrop fittings

BOW DIAGRAMS

Understanding your bow and its component parts will add to your archery enjoyment. Although bows differ in performance and features, these photos represent the components available in various combinations on most models. Being familiar with this information will help you with the instructions throughout this manual. Also, you can refer to these photos when ordering parts or making technical inquiries.



BOW DIAGRAMS



MAINTENANCE

Cleaning

Use a soft cotton cloth to remove dirt and moisture. Spray-on furniture polish works well. Protect the finish on target bows with paste wax. On hunting bows, avoid cleaners with distinctive odors. Do not use solvents such as acetone or mineral spirits as they will ruin the finish.

Storage and Transportation

Avoid exposing your bow to temperatures over 150 degrees. Excessive heat may damage your bow. Do not leave your bow unprotected in your car or truck on a hot sunny day or store in a hot attic or other hot enclosed area.

Clean your bow thoroughly after each use. Never put your bow away wet or store it in a damp place. Lightly oil all steel parts (axles, mounting screws) to prevent rust.

You can relax the limbs if storing for more than a year. Follow the instructions under Draw Weight Adjustment on page 10.

Always use a bow case when traveling with you bow.

Bow Presses

Use **only** “double-pull” type bow presses. A “double-pull” bow press draws you bow down at two points on the riser. Older style “single-pull” bow presses that contact the bow only in the grip area can result in bent or broken risers.

To reduce unnecessary stress on the riser, back off the limb bolts 2-3 turns before placing in press.

MAINTENANCE

Lubrication

Your Escalade Sports compound bow requires very little lubrication. Wipe the cableguard periodically to keep the cable slide running smoothly. Cam and wheel bearings do not require lubrication. If other lubrication is necessary, use white lithium grease or Teflon© lubricants.

Avoid excessive lubrication of any item, as this can attract dirt. On hunting bows, avoid lubricants with obvious odors.

String and Synthetic Cable Maintenance

Regularly apply a high quality bowstring wax to you string and synthetic cables systems. Regular waxing protects your cables and strings from abrasion, wear and separation.

One twist per 4” of string length will eliminate “dead strands”. For example, a 47” string should be twisted 11-12 times. Be sure to twist the string in the direction that tightens the servings.

Escalade Sports strongly recommends replacing the bowstring and cable annually or every 12,000 shots. If the string or cables show signs of wear, replace as soon as possible with Escalade Sports components. Directions on replacing the string start on page 35.

BOW ADJUSTMENTS

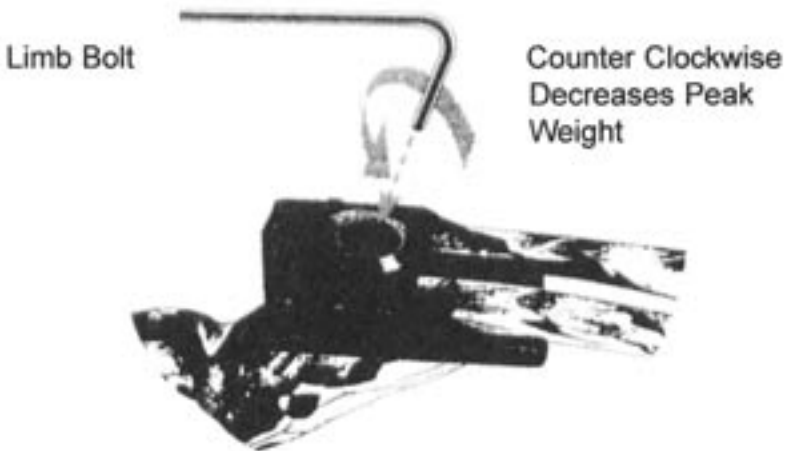
Draw Weight Adjustment

Escalade Sports bows have a 10-15 pound peak weight adjustment range. The weight range is printed on the sticker on the lower limb. If your bow is equipped with limb bolt lock downs, make sure these brass-tipped set screws are loosened 4-5 turns before making any weight adjustments.

Using a 3/16" hex wrench, turn the limb bolts clockwise to increase peak weight and counter-clockwise to reduce peak weight. Bow weight will increase or decrease approximately two to four pounds per turn. Do not turn one limb bolt more than two turns ahead of the other.

After making weight adjustments, use a bow scale to check peak weight and a bow square to check the tiller. (Does not apply to OneCams)

After all tuning adjustments have been made, engage the limb bolt lockdown set screws. Screws should be snug against the limb bolts. (Do not exceed 50 inch-pounds of torque.)



BOW ADJUSTMENTS

Xact Timing (Two cam bows only)

Timing refers to the synchronization (or lack of synchronization) that occurs when wheels and cams “break over” as the string is drawn. “Times” bows break over in unison (synchronization). “Unlimited” bows do not.

Every Escalade Sports bow is perfectly timed before it leave the factory. But if you change the weight or draw length settings or if your cables stretch from heat, cold, or time, you can quickly detect a timing problem and easily correct it in minutes.

Check and set your timing using the Xact Timing Gauge. This gauge is provided with every bow featuring Xact Timing, or it can be purchased separately.

To adjust timing:

- 1) Place the bow in a horizontal position.
- 2) Identify the eccentric with the Reference Line that is least parallel to the string. This eccentric will need adjustment.
- 3) Place the Xact Timing Gauge on the string near the opposite eccentric; align the Xact Timing Gauge Indicate with the Reference Line on that eccentric.
- 4) Reposition the Xact Timing Gauge on the string next to the eccentric that needs to be adjusted.
- 5) Loosen the cap-head screw that locks the timing feature in place using a 3/16” hex wrench.



BOW ADJUSTMENTS

Xact timing (continued)

- 6) Using the supplied box wrench, turn the timing feature until the Reference Line on the eccentric is even with the Xact Timing Gauge Indicator.
- 7) Lock the timing feature in place by tightening caphead screw.

Tiller Adjustment (Used on Two cam bows)

Tiller is the difference in the distances from the string to the points where the riser meets the limbs. It can be measured using a bow square.

This measurement is not particularly critical regardless of shooting style, but should be maintained for consistency.

The tiller should be even to 1/8" closer on the bottom. Adjust the tiller by turning the limb bolts (see "Draw Weight Adjustment"). To increase the tiller measurement on one limb, turn the limb bolt counter-clockwise. To decrease the tiller measurement, turn the bolt clockwise.

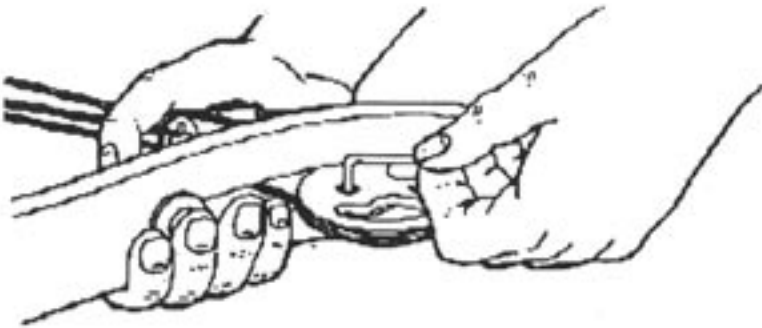
BOW ADJUSTMENTS

Draw Length Adjustment - Modular Style

Most Escalade Sports bows, including the single cam models, have modular cams or wheels. On these bows, you can adjust your draw length to fit your shooting style simply by changing the elements. This draw length adjustment will have a negligible effect on your peak weight. Some elements can be changed without using a bow press.

The factory-installed elements will give you the draw length marked on the bow. Elements are graduated in one-inch increments.

- 1) Using a hex wrench, loosen the flathead socket screws in the cam or wheel until the element falls off. You may have to press the cables towards the limb to reach the inner screw.
- 2) Slip the new element in place and loosely fasten both screws. Then tighten both screws alternately, making sure that the element is flush against the face of the cam or wheel. Do not over tighten screws.



BOW ADJUSTMENTS

Draw Length Adjustment - Modular Style (continued)

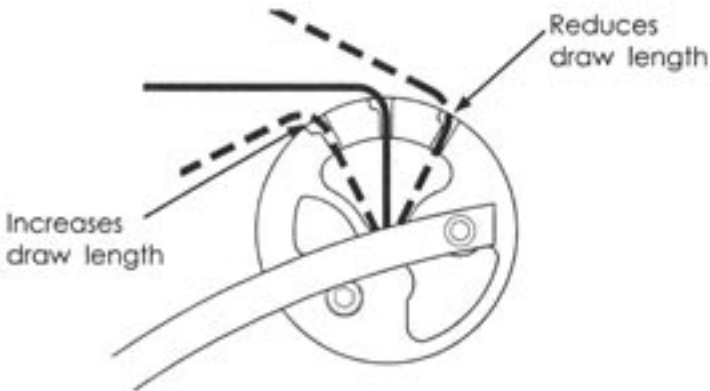
- 3) Repeat steps 1 and 2 on other end for dual eccentric bows. Be sure to use matching elements.

Draw Length Adjustment - Tri-draw style

Some Escalade Sports bows have tri-draw style wheels. These can be adjusted to one inch longer or one inch shorter than the factory set draw length.

Note: This draw length adjustment **will** affect the peak weight of the bow.

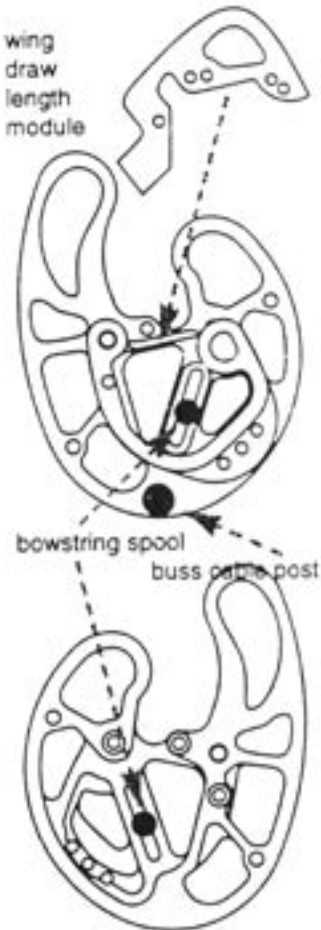
- 1) Back limb bolts off at least 2 turns.
- 2) Using a double pull bow press, relax the bow.
- 3) To increase the draw length by one inch, move the cable to the inboard slot (toward the center of the bow). Repeat on opposite end.



- 4) To reduce the draw length, move the cable to the outboard slot (toward the limb tip). Repeat on other end.
- 5) Be sure the cable and string are firmly seated in the proper grooves as you release the bow press.

ADJUSTING DRAW LENGTH

Perimeter Weighted OneCam II



Perimeter Weighted OneCams have a modular draw length adjustment. Draw length changes are made by simply changing modules. Accessory modules are available from your dealers in one-inch draw length increments. Each module is numbered, with #1 being the longest draw length module and #8 being the shortest.

To change modules remove the socket head screws from the present module, remove that module and replace with a new module. Such module draw length adjustment will not affect draw weight.

Additional, fine draw length (and string stretch) adjustments of up to 1/2 inch can be made by repositioning the adjustable bowstring mounting post near the center of the cam.

To make such adjustments, it is first necessary to remove tension from the harness system of the bow by relaxing the bow in a bow press. ***A fixed or portable bow press must be used. Under not circumstances can this relaxing of the harness system be accomplished by simply backing out limb bolts.***

ADJUSTING DRAW LENGTH

Perimeter Weighted OneCam II

(continued)



Such mounting post draw length adjustments will slightly affect draw length and weight. Pulling more bowstring up into the cam will reduce draw length and weight. Letting it out will increase draw length and weight.

Wing Module Draw Stop Feature

A unique optional feature of the new PWCII is provided by the new wing modules. The wing module accepts a draw stop screw that lets the shooter adjust the “valley” at full draw.

Without the draw stop screw, a wide, soft valley is experienced. With the draw stop screw installed the shooter can tune the valley to provide a sharp, solid wall at full draw.

The bow is shipped without the draw stop screw in place. A draw stop screw is included in the enclosure bag provided with your bow.

Note: Wing modules #1 & 2 do not accept a draw stop screw. The physical configuration does not allow for that option to be provided.

ADJUSTING DRAW LENGTH

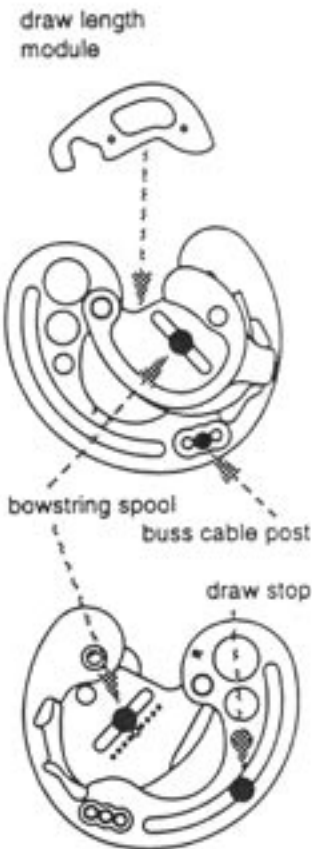
SuperCam

SuperCams are equipped with modular draw length adjustment. Draw length changes are made by simply changing modules; a bow press is not needed. Accessory modules are available from your dealers in one-inch draw length increments. Each module is numbered, with #1 being the longest draw length module and #7 being the shortest. To change modules remove the socket head screw from the present module, remove that module and replace with a new module. Such module draw length adjustment will not affect draw weight.

Additional, fine draw Length (and string stretch) adjustments of up to 1/2 inch can be made by repositioning the adjustable bowstring mounting post near the center of the cam. To make such adjustments, it is first necessary to remove tension from the harness system of the bow by relaxing the bow in a bow press. ***A fixed or portable bow press must be used. Under no circumstances can this relaxing of the harness system be accomplished by simply backing out limb bolts.***

Such mounting post draw length adjustments will slightly affect draw weight. Pulling more bowstring up into the cam will lessen draw weight; letting it out will increase weight.

Most discrepancies in buss cable length can be adjusted for either by adding or removing twists from the buss cable or if larger changes are required then the buss cable attachment spool can be repositioned in the cam to one of its other locations.



ADJUSTING DRAW LENGTH

Extreme/ Strike Cams

Extreme Cams are equipped with a modular draw length adjustment system. Draw length changes are made by simply changing modules on both the top and bottom cam.

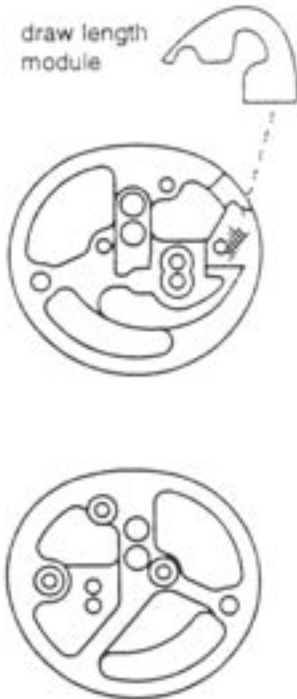
A bow press may be needed in some instances. Accessory modules in one-inch increments are available from your dealer.

When changing modules be sure that the module numbers are the same on top and bottom.

There are two sizes of these cams. The larger body cam, for longer draw lengths, has four modules available for it: E/F-1 for the longest draw length of E/F-4 for the shortest.

The smaller body cam, for shorter draw lengths has four modules available: E/F-5 for the longest draw length to E/F-8 for the shortest.

To change modules remove the socket head screw from the present module, remove that module and replace with a new module. Such modular draw length adjustment will not affect draw weight.



ADJUSTING DRAW LENGTH

HatchetCam

draw length
module



HatchetCams are equipped with modular draw length adjustment. Draw length changes are made by simply changing modules; a bow press may be needed in certain instances. Accessory modules are available from your dealer in one-inch draw length increments. Each module is numbered, with #H1 being the longest draw length module and #H5 being the shortest.

When changing modules be sure that the module numbers are the same on top and bottom.

To change modules, remove the socket head screw from the present module, slide the module from the cam body and replace it with a new module. Such module draw length adjustment will not affect draw weight.

ADJUSTING DRAW LENGTH

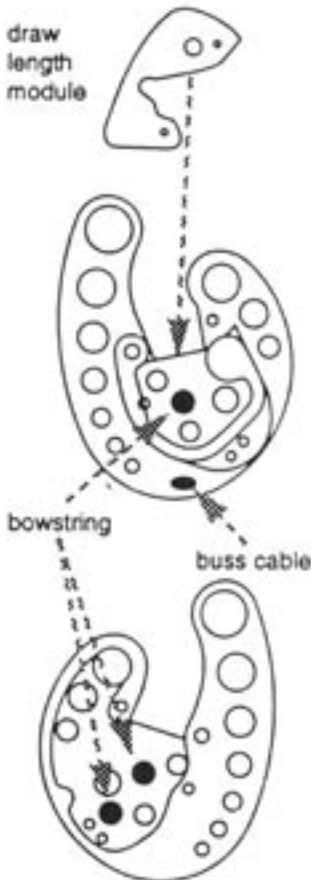
Micro Perimeter Weighted Cams

Micro Perimeter Weighted OneCams have a modular draw length adjustment. Draw length changes are made by simply changing modules; a bow press may be needed in certain instances. Accessory modules are available from your dealers in one inch draw length increments. Each module is numbered, with MS1 being the shortest draw length module and MS5 being the longest.

To change modules remove the two screws from the present module, remove that module and replace with a new module. Such module draw length adjustment will not affect draw weight.

Additional, fine draw length (and string stretch) adjustments can be made by repositioning the adjustable bowstring mounting post near the center of the cam. This changes the weight slightly.

To make such adjustments, it is first necessary to remove tension from the harness system of the bow by relaxing the bow in a bow press. ***Under no circumstances can this relaxing of harness system be accomplished by simply backing out limb bolts. A fixed or portable bow press must be used.***



ADJUSTING DRAW LENGTH

Original OneCams



bowstring post



buss cable spool

Original OneCams are equipped with a bowstring post draw length adjustment system. Typically, bows come from the factory with the bowstring attached to the center (#2) post. To make draw length changes, the bowstring is reattached to one of the other posts. To make such adjustments, a fixed or portable bow press should be used to relieve tension in the bow's harness system.

To increase draw length, attach the bowstring to a lower numbered post. Going from post #2 to post #1 increases draw length by approximately 1/2 inch.

To decrease draw length, attach the bowstring to a higher numbered post. Going from post #1 to post #3 decreased draw length by approximately 1 inch. Such bowstring post draw length adjustments will slightly affect the bow's draw weight. A shorter adjusted draw length will decrease draw weight. A longer adjusted draw length will increase draw weight.

Most discrepancies in buss cable length can be adjusted for either by adding or removing twists from the buss cable or if larger changes are required then the buss cable attachment spool can be repositioned in the cam to one of its other locations.

ADJUSTING DRAW LENGTH

ActionCam

ActionCams are equipped with a modular draw length adjustment system. Draw length changes of plus or minus 1 inch are made by simply changing modules on both the top and bottom cam. A bow press may be needed in some instances.

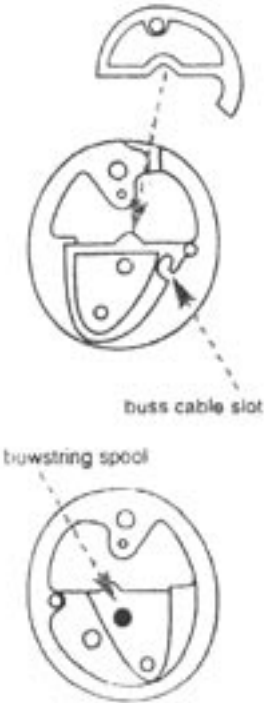
When changing modules be sure that the module numbers are the same on top and bottom.

There are two types of modules available for the ActionCam, wheel modules and cam modules.

Wheel modules are designated W1*, W2*, and W3*. W1* produces the longest draw length and W3* produces the shortest. Your bow was shipped from the factory with the W2*, or middle, module installed.

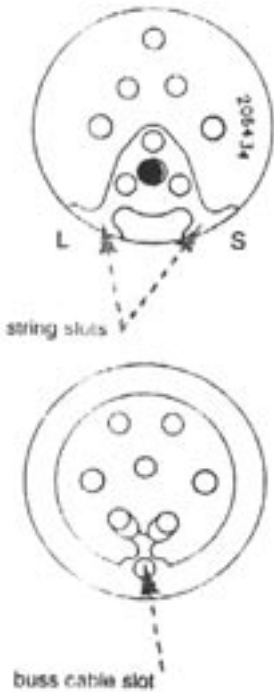
Cam modules are designated 65C1*, 65C2*, 65C3* and follow the same rules.

To change modules remove the screw from the present module, remove that module and replace with the new module. Such modular draw length adjustment will not affect draw weight.



ADJUSTING DRAW LENGTH

MachLite Energy Wheel



Machine Lite Wheels are equipped with a bi-draw length adjustment system. Draw length changes are made by repositioning the bowstring, as it comes out of the wheel, into one of two different slots.

To change draw length, it is first necessary to remove tension from the harness system of the bow by relaxing the bow in a bow press. A bow press must be used. ***Under no circumstances can this relaxing of the harness system be accomplished by simply backing out limb bolts.***

With the bow relaxed the bowstring can then be repositioned to the desired string slot. The “S” slot (see diagram) shortens the draw length. The “L” slot lengthens the draw length.

For the “middle” draw length, place string in “S” slot on one wheel and the “L” slot on the other wheel. Such bi-draw length adjustments will affect the bow’s draw weight.

A shorter adjusted draw length will decrease draw weight. A longer adjusted draw length will increase draw weight.

ADJUSTING DRAW LENGTH

Rotating Module Cam

Note the string side of the cam has 2 axle holes numbered 1 and 2 (Fig. 1). You must relax the limbs of the bow to change the axle locations. This can be achieved either by relaxing the limb bolts or using a bow compressor. The opposite side (fig. 2), the rotating module has the letters A, B, C and D. There are also indicator marks numbered 1 and 2. The indicator marks correspond to the axle position on the opposite side of the cam. Use the below information to set the draw and module position for the desired draw length.

(Fig. 1 and 2 are on the following page)

| Draw Length | Axle Hole | Module |
|-------------|-----------|--------|
| 20 | 2 | 2-D |
| 21 | 2 | 2-C |
| 22 | 2 | 2-B |
| 23 | 2 | 2-A |
| 24 | 1 | 1-D |
| 25 | 1 | 1-C |
| 26 | 1 | 1-B |
| 27 | 1 | 1-A |

ADJUSTING DRAW LENGTH

Rotating Module Cam (continued)

The spools on the string side of the cam allow you to fine tune the draw lengths and compensate for string stretch. Your bow is shipped from the factory in the center position. To shorten or lengthen the draw, move the string to the positions shown in the illustration.

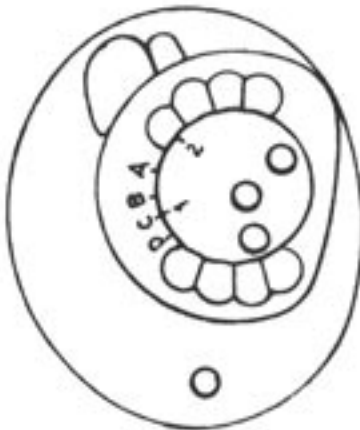
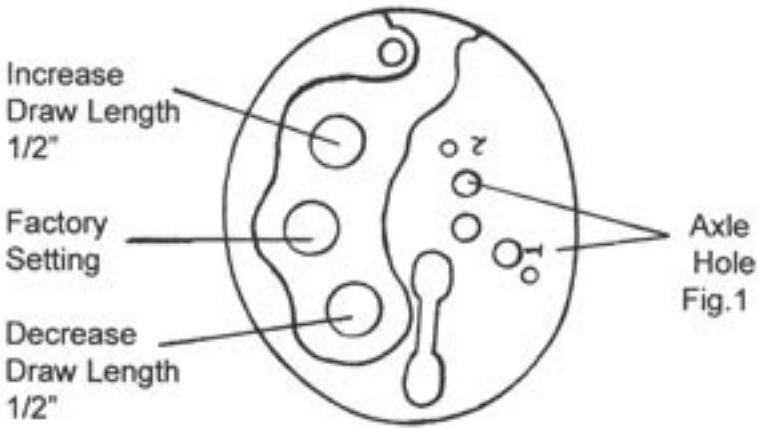


Fig.2

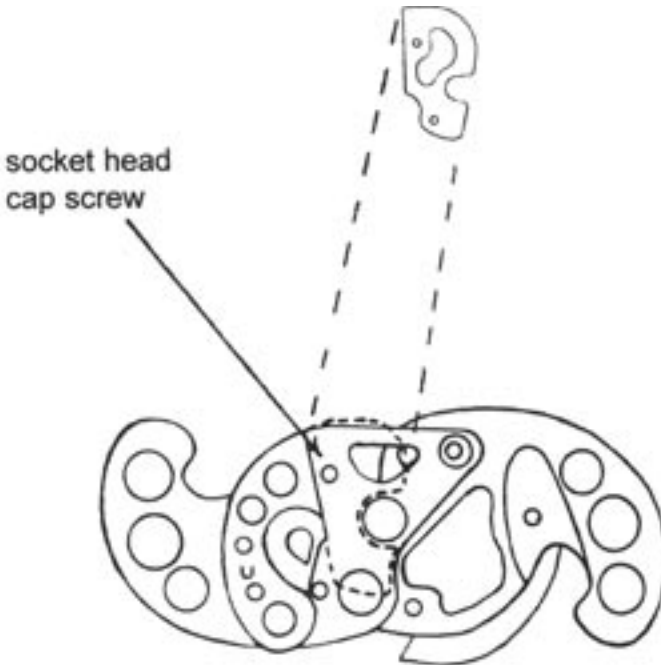
ADJUSTING DRAW LENGTH

Zen Cam

The draw length of you Zen Cam is adjustable in 1 inch draw lengths by replacing the cam modules on each side of the bow.

- 1) Remove the socket head cap screw shown.
- 2) Remove the cam module and replace with the appropriate module to achieve the desired draw length shown in the chart below.
- 3) Repeat procedure on reverse side of cam.

| Module | Draw Length |
|--------|-------------|
| 1 | 31" |
| 2 | 30" |
| 3 | 29" |
| 4 | 28" |



ADJUSTING DRAW LENGTH

Vortec Cam

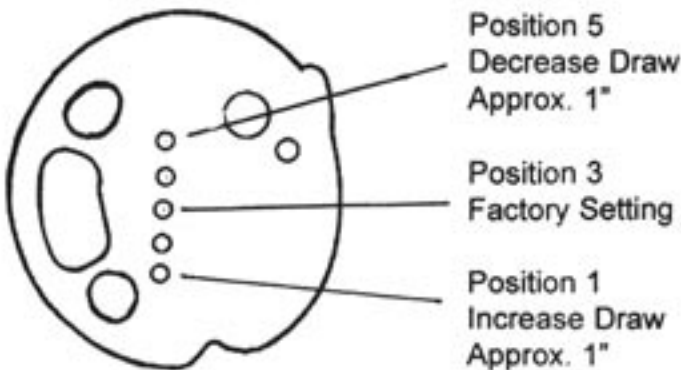
The Vortec Cams are equipped with a multi draw feature. Draw length changes are made by repositioning the string spool located on the draw string side of the cam.

Prior to changing draw length, back limb bolts off 2 full turns. To change draw length, it is first necessary to remove tension from the harness system of the bow by relaxing the bow in a bow press. **A bow press must be used.** Under no circumstances can this relaxing of the harness system be accomplished by simply backing out limb bolts.

With the bow relaxed, the bowstring spool can then be repositioned to the desired string setting. The #1 position (see diagram) lengthens the draw length. The #5 position shortens the draw length.

The longer adjusted draw length setting will increase bow weight. A shorter adjusted draw setting will decrease bow weight.

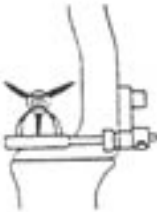
Before removing bow from bow press, make sure all strings and cables are properly seated and attached to the cam. Remember to tighten limb bolts once the procedure is completed.



INITIAL BOW SETUP

Before you can safely and effectively shoot your bow, a number of specific initial bow setup steps must be taken. These steps can be performed on your own, if your level of expertise is adequate. Or, your local archery dealer can help you.

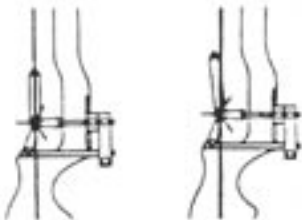
These are initial setup steps only. Later, fine tuning (see Basic Tuning) may be required.



Shoot-Through type arrow rests work best for release shooters.



Shoot-Around type arrow rests works best for fingers shooters.



Initial centershot setting for release shooter.

Initial centershot setting for finger shooter.

Arrow Rest Selection

Arrow rest selection is best determined by shooting style. If you shoot with a mechanical release, you will be best served with a “Shoot-Through” type arrow rest. If you elect to shoot in the traditional manner with your fingers, a “Shoot-Around” type rest will work best for you.

Arrow Rest Installation & Setup

Arrow rests should be installed according to manufacturer specifications. Then, the rest should be adjusted for proper, initial “Centershot” position. This initial rest position setup is quite different, depending on whether you have elected to shoot with fingers or with a mechanical release. See the following drawings to determine which is initially correct for you.

INITIAL BOW SETUP

Place an arrow on the bowstring. Inspect for adequate fletch clearance. If additional fletch clearance is required, adjust the cable guard as needed, or reduce fletching size.

At this same point, adjust arrow fletch position to correspond with the configuration of your arrow rest in order to ensure clean passage through or past that arrow rest. Such adjustments are done by breaking loose and rotating, or replacing altogether each arrow's inexpensive nock and carefully positioning the new nock to provide proper fletch clearance through the arrow rest. Your archery dealer can show you how this is easily accomplished or can provide this service for you.

INSTALL ALL ACCESSORIES

Before basic tuning, install all additional accessories - sights, bowquivers, silencers, peep sights, etc. Each of these items can affect bow tuning results, it added at a later date.

A mild thread-locker (LokTite) compound can be used to prevent loosening of screw-mounted accessories such as sights, arrow rests and bowquivers.

BASIC TUNING

Now that we have accomplished all Initial Bow Setup procedures, we can proceed to Basic Bow Tuning. Making final tuning adjustments to the bow will enable us to further improve arrow flight and accuracy.

Firmly attach a sheet of paper to a stiff frame approximately 24"x24" (an old picture frame works well). Position the center of the frame about shoulder height and around six feet from the safe target. Stand 6 to 10 feet in front of the paper and frame. Shoot a fletched arrow through the center of the paper at shoulder height and observe how the paper is torn.

Most often, a tear will initially result which is a combination of both horizontal and vertical indications. Adjust the vertical (nocking point) part first. Then work on the horizontal. It should be noted that a perfect hole is not always possible for all shooters and all setups. Neither is it always advisable. Many top shooters find that a slightly high-left tear (or RH shooter, high-right tear for left hand) provides optimum accuracy. Paper tuning is a method for allowing each shooter to discover what works best for them with a particular bow setup.



Tear indicates good arrow flight.



Nocking point too low. Raise nocking point slightly and try again.



Nocking point too high. Lower nocking point slightly and try again.



Arrow may be too stiff for RH finger shooter (or too light for LH bow).



Arrow may be too light for RH bow (or too stiff for LH bow).

CARE AND STORAGE

With proper care and a minimum amount of routine maintenance, your bow will be kept in top condition.

Carefully inspect your bow on a regular basis. Replace frayed bowstrings and worn cables immediately. Bowstrings should be replaced annually or every 10,000 shots.

Keep eccentric wheels, cams and pulleys rotating freely by lubricating lightly at the axle. A very small amount of silicone or teflon-based lubricant applied on a regular basis goes a long way.

Your bow should be kept clean of dust, mud and grime. Use a soft cotton cloth to remove dirt and moisture.

Bowstrings and synthetic cables should be lightly re-coated with a quality bowstring wax on a regular basis. Smear the wax into position. Rub it gently with your fingers or a soft piece of leather to melt the wax into the strands.

When traveling with your bow, always use a bow case.

Avoid exposing your bow to temperatures over 150 degrees. Never leave your bow unprotected in a vehicle on a hot sunny day.

Never put your bow away wet or store it in a damp place.

BOW SET-UP

Cableguard Installed and Adjustment

Post-mount below grip cableguard

Loosen locking screw(s) in side of base and slip over post below the grip on the riser. Tighten the locking screw(s) with the cableguard rod in the desired position, keeping rod rotated toward the grip, rather than toward the eccentric.

Above grip cableguard

Mound cableguard to the outside of the sight window using the caphead screws provided. The cableguard sideplate is compatible with dovetail or bolt-on sights. To adjust cableguard rod for additional fletch clearance, loosen the fasteners holding cableguard rod in place and rotate. It is best to position the cableguard rod as close as possible to the center of the bow.

Fixed cableguard

Attach the cableguard to the riser below the grip using the fasteners provided. This type of cableguard is **not** adjustable for fletching clearance. To reduce deflection of the cableguard rod, loosen the fasteners and slide the rod back, making sure to allow enough room for the full travel of your draw length.

Inside/outside cableslide (Available on some 2 cam models)

In addition to the cableguard adjustments described above, additional fletch clearance can be obtained by reversing the cable slide so that the cable rides to the outside of the cableguard rod.

BOW SET-UP

Arrow Selection

Arrow selection depends on the peak draw weight, let-off and draw length settings of your bow. Refer to arrow manufacturers arrow selection tables using this information.

The Archery Manufactures Organization (AMO) recommends a minimum of six grains arrow weight per pound of peak weight. The International Bowhunters Organization (IBO) allows a minimum of five grains arrow weight per pound of peak weight. Arrow weight is the total combined weight of your arrow, nock insert, and point or broadhead.

To determine the lightest arrow you can safely shoot, use the following format:

| | | |
|-----------------------------|--------------------------------------|---|
| Peak Draw Weight (Lb) | Multiply By 5 Grains Per Pound | =Minimum Safe Arrow Weight (Grains) |
|-----------------------------|--------------------------------------|---|

Exceeding the minimum weight causes no safety problems. However, **do not** shoot less than your minimum arrow weight.

The weight of the arrow you select can be determined as follows:

- 1) From an arrow chart, find the weight of your arrow shaft based on the size and length.
- 2) Add the weight of your broadhead or point.
- 3) Add 35 grains to cover the nock, insert and fletching. For example.

| | | | |
|----------|---------|--------|---------|
| Arrow | Point | Other | Total |
| 2317–30" | Mag 125 | | |
| 396 Gr | +125 GR | +35 Gr | =558 Gr |

BOW SET-UP

Warning:

Shooting arrows below these minimum weight requirements will void the warranty. Using arrows below five grains per pound of peak weight can approach dry-fire conditions and can severely reduce the life of your bow, and may cause serious injury.

Contact your archery pro shop or the following arrow manufacturers for arrow selection recommendations:

Game Tracker Inc

P.O. Box 380

Flushing, MI 48433

(810) 733-6360

Easton

5040 W. Harold Gatty Dr.

Salt Lake City, UT 84116-2897

(801) 539-1400

True Flight Arrow Co.

2709 S. Freeman Rd.

Monticello, IN 47960

(219) 583-5131

Beman USA

5040 W. Harold Gatty Dr.

Salt Lake City, UT 84116

(801) 539-1433

STRING REPLACEMENT

Replacing the String — Fast-flight systems

- 1) Relax bow in a double pull bow press.
- 2) Remove string.
- 3) Attach the end loop of the new string to the cam or wheel.
- 4) Wrap string around the bottom of the eccentric, over the top and back toward the other end of the bow, keeping string above the buss cables.
- 5) Bring the opposite end of the string around the other eccentric and attach the end loop to the post.
- 6) Make sure the string is firmly seated in the eccentric grooves as you slowly release the bow press.



Replacing the string — Single cam systems

- 1) Relax the bow in a double pull bow press, and remove the string, noting the post to which the string was attached.
- 2) Attach an end loop to the appropriate post in the center of the cam on the sight window side. Wrap the string around the bottom of the cam, then around over the top toward the other end of the bow.
- 3) Bring the string over the top of the concentric idler wheel and back toward the cam.



STRING REPLACEMENT

Replacing the string — Single cam systems (continued)

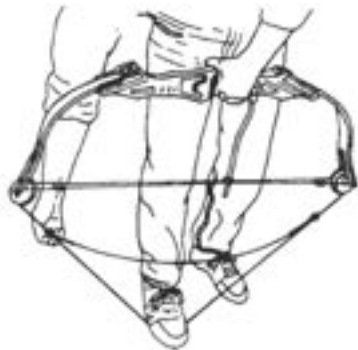
- 4) Wrap the string over the top and around the outermost groove on the opposite side of the cam. Attach the end loop to the post.
- 5) Make sure the string and cable are firmly seated in the proper grooves as you slowly release the bow press.

Replacing the string — Teardrop systems

Foot method – It is possible to change the string without using a bow press on bows equipped with teardrop style string attachments **only**.

Use the following procedure:

- 1) Back off the limb bolts 2-3 turns (counter clockwise).
- 2) Holding bow in one hand, step on the string.
- 3) Lift bow up, flexing the limbs.
- 4) Place the new string on the empty sides of the teardrop fittings. Lower the bow. Both strings are now strung on the bow.
- 5) Make sure the new string is well-seated in the teardrop grooves. Carefully, step on the **new** string and lift bow, again flexing the limbs.
- 6) Remove the old string from teardrops. Lower the bow with new string in place.



STRING REPLACEMENT

Replacing the string — Teardrop systems (continued)

Bow press method - The strings on Escalade Sports bows equipped with teardrop style string attachments can also be changed in a bow press by doing the following:

- 1) Relax the bow in a double pull press.
- 2) Attach the new string to the empty sides of the teardrop fittings, making sure end loops are well seated in teardrops.
- 3) Remove old string from teardrops.
- 4) Make sure the string and cables are firmly seated in the proper grooves as bow press is released.

Limited Lifetime Warranty To The Original Owner Only

Please Complete Warranty Registration On Line:

www.escaladesports.com/bow-warranty

Escalade[®] Sports warrants every Escalade Sports manufactured compound bow and crossbow to be free from material or manufacturing defects under a limited lifetime warranty from the date of purchase. Warranty excludes strings, cables, cable slides and/or cosmetic appearances such as scratches, chips, dings, etc. which are typically caused by normal use and wear of the bow. Warranty extends to the original owner of the bow and is not transferable. In addition, the original owner must submit proof of the warranty information requirements to register the bow for warranty eligibility. Should the warranty information requirements not be provided, all repairs will be performed at 100% of the cost of parts and factory labor. Removal of the bow's serial number will void all warranty.

All warranty repairs or replacement parts for compound bows and crossbows will be assessed at current published prices based on date of purchase as follows:

- 1-3 years – purchaser pays 0% of parts and factory labor.
- 4 years & up – purchaser pays for a percentage of factory labor and parts on a pro-rated basis. Customer to be notified of charges prior to repair. Payment due prior to factory refurbishment.
- After the end of the tenth year, the purchaser must pay 100% of parts and 0% of factory labor. Customer to be notified of charges prior to repair. Payment due prior to factory refurbishment.

Any compound bow or crossbow returned to The Escalade Sports for warranty service, the string, cables and cable slide will be inspected for wear and replaced if necessary. A minimal charge will be assessed for such replacement. The riser, limb pockets, limbs and eccentrics on compound bows are all covered under our Limited Lifetime Warranty as defined above. Warranty will be honored to original owner only. Defective parts will be replaced or repaired as necessary to restore the bow to its original shooting condition. At the discretion of Escalade Sports evidence of abuse, including misuse or modification to the original design, such as physical reshaping or drilling additional holes, will void all warranty implied. Additionally, the use of attachments or accessories that cause excessive stress will void all warranty claims.

Overstressing compound bows or crossbows by using arrows lighter than Archery Manufacturers and Merchants Organization (AMO) recommendations will void the warranty and may cause damage to the bow

and possible injury to the shooter. For this reason, Escalade Sports recommends the arrow weight be in accordance with the recommendations of AMO for minimum arrow weight per bow peak weight.

All accessory items must be removed from the bow prior to shipping. Escalade Sports will not be responsible for damage or loss of any accessory item left on the bow.

In the interest of product improvement and consumer safety, Escalade Sports reserves the right to make changes in product design and specifications without notice.

Damage caused by mishandling, abuse, improper stringing or modification of the product is not covered and will void the warranty.

Escalade Sports makes no other warranty, either expressed or implied, except as stated above. To the extent permitted by applicable law, Escalade Sports shall not be responsible for any incidental or consequential damages or expenses of any kind or sort, whether relating to or resulting from personal injury, property damage or otherwise.

This limited warranty gives you specific legal rights. You may also have other rights, which vary from state to state. Unless prohibited by applicable law, this limited warranty extends only to you, the original purchaser, and is not transferable.

In the event a bow requires warranty service, please contact the Customer Relations Department at (800) 694-9494 for a Return Authorization Number and return shipping instructions.

Escalade Sports will not be responsible for unauthorized dealer or retailer labor charges. Transportation and insurance charges for the return of any bow are not covered under the terms of this warranty and are the responsibility of the owner.

Contact for any questions or concerns:
customerservice@escaladesports.com

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