Owner's Manual

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Record important bow information here and keep for future reference.

Model:_____

Weight Range:_____

Draw Length:_____

String Length:_____

Cable Length:_____

Purchased From:_____

Date Purchased:_____

Serial Number:_____

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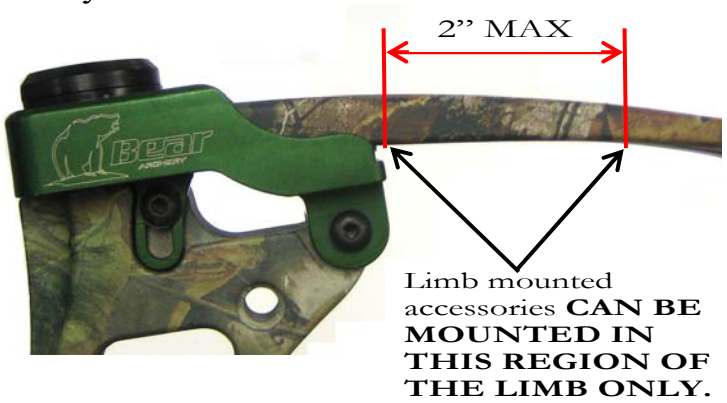
Congratulations! Your new Bear Archery compound bow is the finest available. It has been engineered for accuracy, long life, and built with quality and pride. No other bow delivers a higher performance to value ratio than a Bear. We know how much you are going to enjoy your new bow. For this reason, we ask you read the Care and Maintenance section carefully to learn how easy it is to maintain the quality, performance and level of satisfaction you expect from a Bear Archery product.

ENJOY YOUR NEW BOW!

! IMPORTANT LIMB ! ! INFORMATION !

⚠ CAUTION Your new Bear Archery bow uses the latest technology in limb design. This creates a limb capable of storing optimal amounts of energy unlike any other bow in the industry. For that reason, the use of limb mounted accessories such as vibration dampeners must be restricted. **These particular accessories MUST NOT BE mounted more than 2 inches from the limb pockets. Mounting limb accessories more than 2 inches away from the pockets, particularly clamping type accessories, can potentially damage the limbs and void the warranty.** See the illustration below.



! IMPORTANT PRESS ! ! INFORMATION !

Due to the innovative and advanced design of your Bear Archery bow limbs, it is of the utmost importance that your bow **ONLY BE PRESSED IN APPROVED BOW PRESSES**. Traditional style presses that use rollers to apply pressure only to the mid section of the limbs CANNOT BE USED. Only presses that are capable of capturing the riser as close to the ends as possible and applying pressure to the limbs ONLY between the axle and limb flare as illustrated can be used.

APPROVED BOW PRESSES:

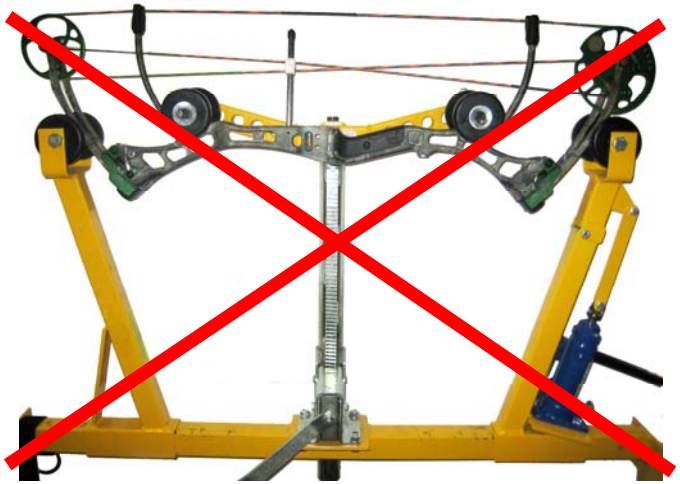
Fixed
- Sure-Loc (must have USL wheel kit installed)
- HTM
- ELP
- Big Squeeze (must use Limb Fork Attachment)

Portable
- Bowmaster (Quad Limb Brackets must be used)

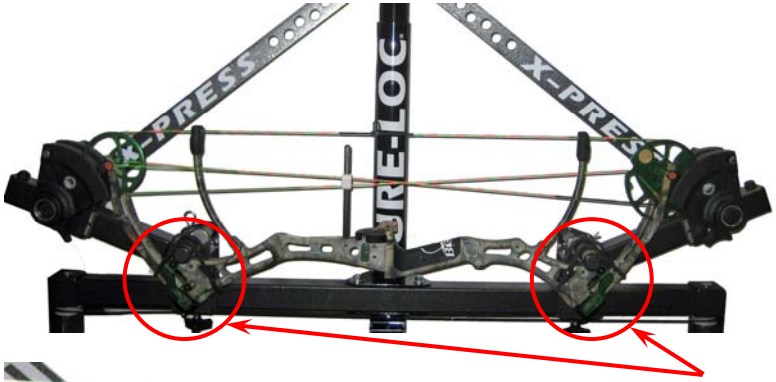
For the most up to date and accurate list, please visit your local Bear Archery dealer or www.BearArcheryProducts.com

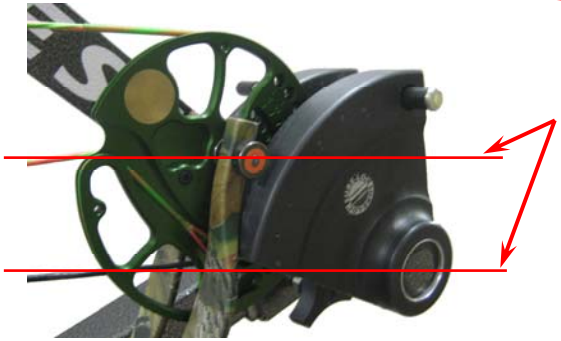
⚠ WARNING Failure to adhere to this list of presses can result in immediate failure of the limbs, possible injury and void the manufacturer's warranty.

! IMPORTANT PRESS ! ! INFORMATION !



DO NOT USE THIS STYLE PRESS ARMS





Press must ONLY apply pressure to the limbs in this area.

Press should be capable of adjusting to the riser's full length

! 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.

⚠ 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. Never dry-fire your bow! Never pull back and release the bowstring without an arrow attached to the string. Your bow is designed to transfer energy to a properly weighted arrow.

⚠ WARNING Shooting underweight arrows has the same effect as dry-firing a bow and may cause serious injury. Use the proper arrow for you and your bow. If you are unsure about your arrow choice, contact your local Bear Archery dealer or an arrow manufacturer.

⚠ WARNING Do not use wooden or fiberglass arrows. They are not designed for use with this compound bow and may cause serious injury. 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.

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

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

The 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 point or aim a drawn bow at another person.
- Never draw or shoot when anyone is between you and your target.
- 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 that no part of the bow will strike any tree branches or other obstacles.
- Never shoot arrows straight up in the air or in any direction where you might destroy property or endanger life.

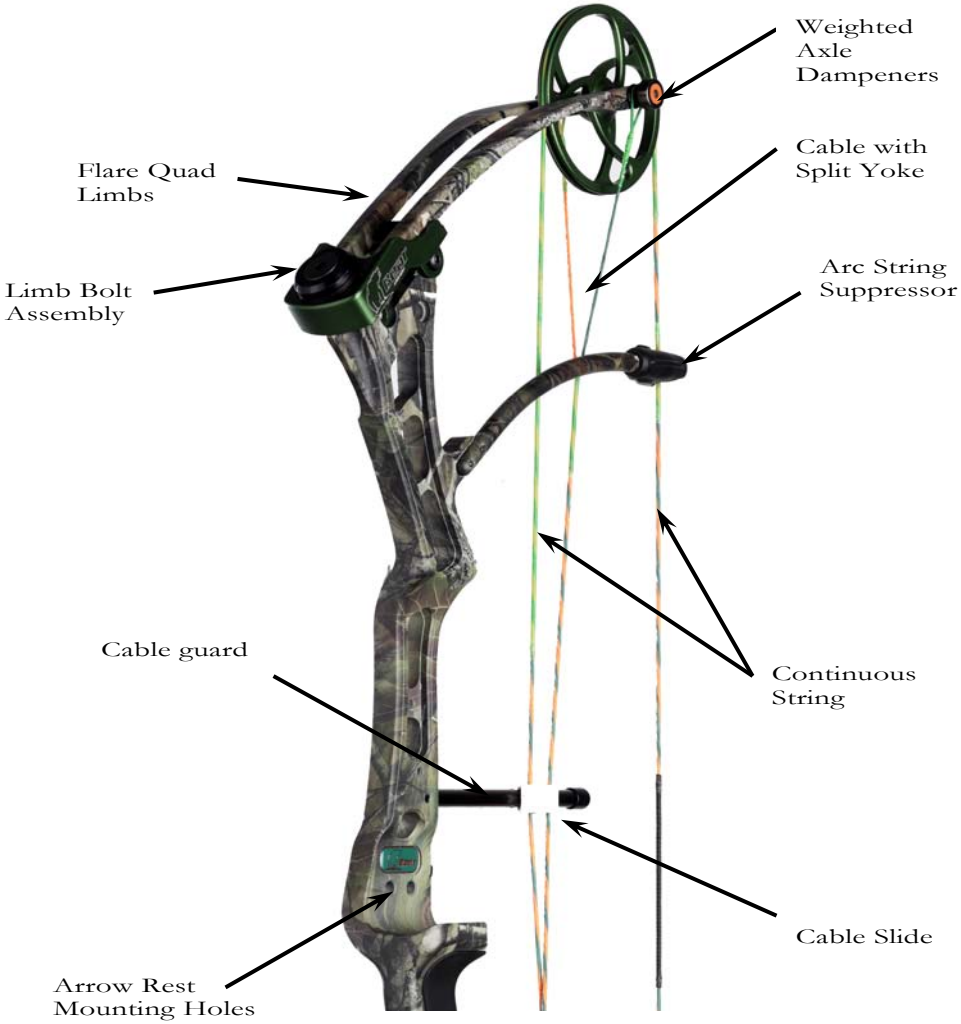
Pre-shooting checklist

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

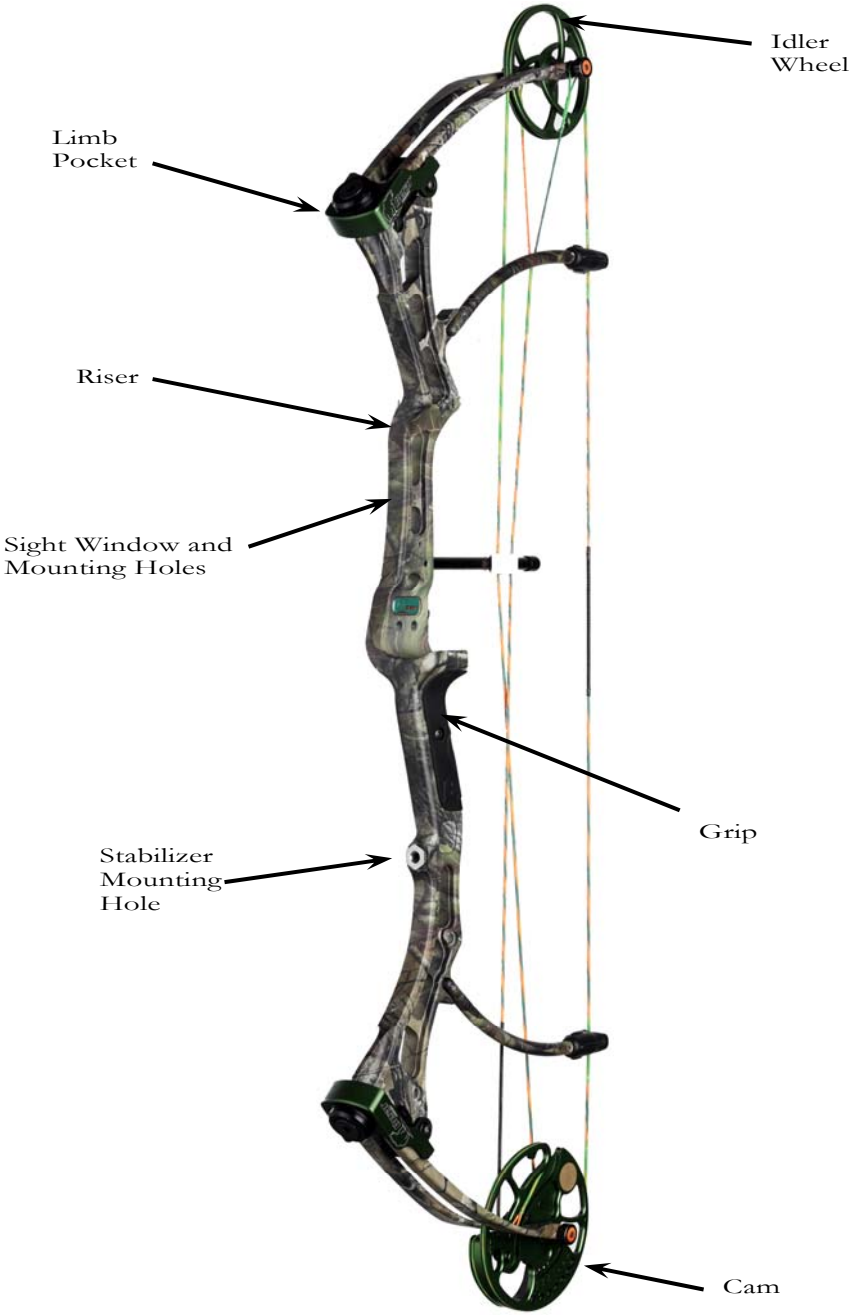
____ Cables
____ String
____ String Serving
____ Loop/Nock set
____ Cable Slide
____ Sight
____ Arrow Rest
____ Arrow Nocks
____ Arrow Shafts
____ Set Screws

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



CARE AND MAINTENANCE

With proper care and a minimum amount of routine maintenance, your bow will be kept in top condition. However, it is still important to carefully inspect your bow on a regular basis.

Cleaning
Your bow should be kept clean of dust, mud and grime. Use a damp soft cotton cloth to remove dirt and moisture. Do not use solvents such as acetone or mineral spirits as they may 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 vehicle 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 Peak Draw Weight Adjustment in the bow adjustment section.

Bow Presses
Use only "double-pull" type APPROVED bow presses. A "double-pull" bow press draws your 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 a press. See page 4 and/or www.BearArcheryProducts.com for additional bow press information.

CARE AND MAINTENANCE

Lubrication
Your Bear Archery compound bow requires very little lubrication. Wipe the cable guard periodically with a dry cloth to keep the cable slide running smoothly and free of dust. Cam and idler 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 your string and synthetic cable system. Regular waxing protects your cables and strings from abrasion, wear and separation. Smear the wax into position. Then, rub it gently with your fingers or a soft piece of leather to work the wax into the strands. Replace frayed or worn bowstrings and cables immediately.

•Bear Archery strongly recommends replacing the bowstring and cable annually. Please visit your local Bear Archery dealer for assistance.

BOW ADJUSTMENTS

Peak Draw Weight Adjustment
Bear Archery bows have a 10 pound peak weight adjustment range. If your bow is equipped with limb bolt lock downs, make sure these screws (small single button head screw attached to riser through "tang" protruding from underneath the limb pocket) are loosened before making any weight adjustments.

Using a 7/32" 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. **IMPORTANT** Both limb bolts must be adjusted equally. Likewise, do not turn one limb bolt more than two turns ahead of the other when making adjustments. Finally, limb bolts must never be backed out more than 3 full turns.

Bows with limb bolt lockdowns: After all tuning adjustments have been made; engage the limb bolt lock down screws. Screws should be snug against the limb pocket "tang".

BOW ADJUSTMENTS

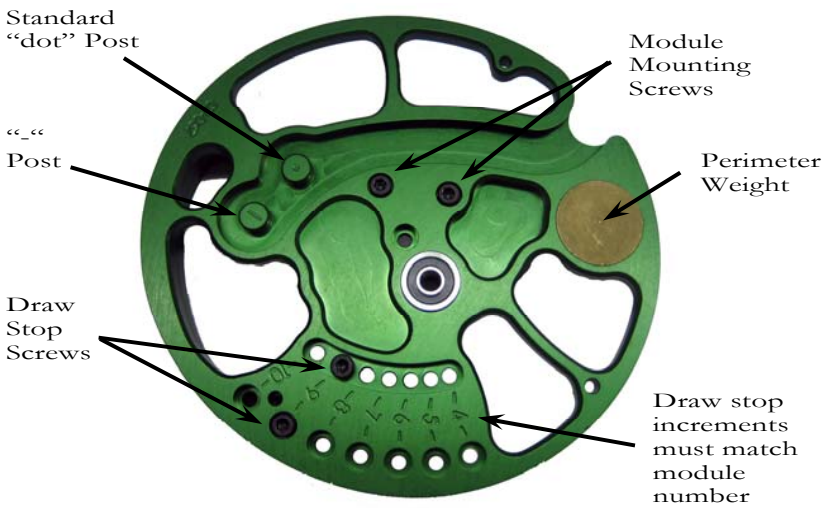
CAM ADJUSTMENTS

Adjusting Draw Length – Perimeter Weighted Modular Single Cam
The perimeter weighted single cam has a modular draw length adjustment. Most draw length adjustments can be made without the use of a bow press. Draw length changes are made by simply changing modules and moving the draw stop. Accessory modules are available from your local Bear Archery dealer in one-inch draw length increments. Each module is numbered, with #10 being the longest draw length and #4 being the shortest. To change modules remove the socket head cap screws from the present module, remove that module and replace with a new module. Such module draw length adjustments will not affect peak draw weight. **Modules are right and left hand specific. USE ONLY RH MODULES ON RIGHT HAND CAMS AND LH MODULES ON LH CAMS!** When a module is changed, the draw stop must also be moved to the corresponding setting marked on the cam. Draw stop must be positioned so that the side marked "OUT" faces out.

Additionally, fine draw length adjustments of ½ inch can be made by removing the bowstring from the standard "dot" string post and reattaching it to either the "+" or "-" string posts on the cam. Moving the string to the "+" post will increase draw length by ½" and moving the string to the "-" post will decrease draw length by ½". To make such adjustments, it is first necessary to remove tension from the harness system of the bow by compressing 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.** Refer to the images on the next page for additional reference.

CAM ADJUSTMENTS

Back View



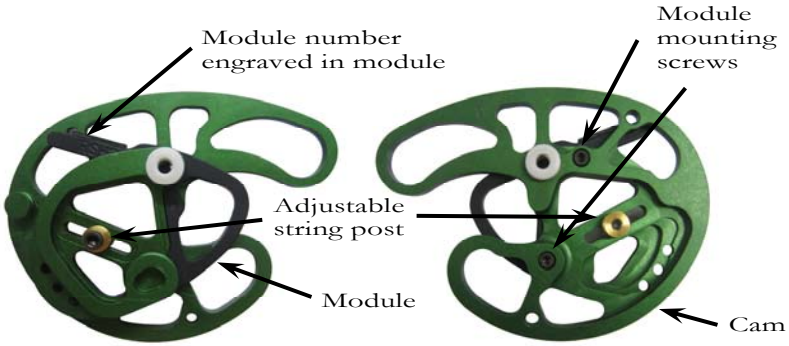
Front View

CAM ADJUSTMENTS

Adjusting Draw Length – Modular Single Cam

The modular single cams have a modular draw length adjustment. Most draw length adjustments can be made without the use of a bow press. Draw length changes are made by simply changing modules. Accessory modules are available from your local Bear Archery dealer in one-inch draw length increments. Each module is numbered, with #2 being the longest draw length and #8 being the shortest. To change modules remove the socket head cap screws from the present module, remove that module and replace with a new module. Such module draw length adjustments will not affect peak draw weight.

Additionally, fine draw adjustments of up to ½ inch can be made by repositioning the Brass 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 compressing 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.** Pulling more bowstring up into the cam will reduce draw length. Letting it out will increase draw length.

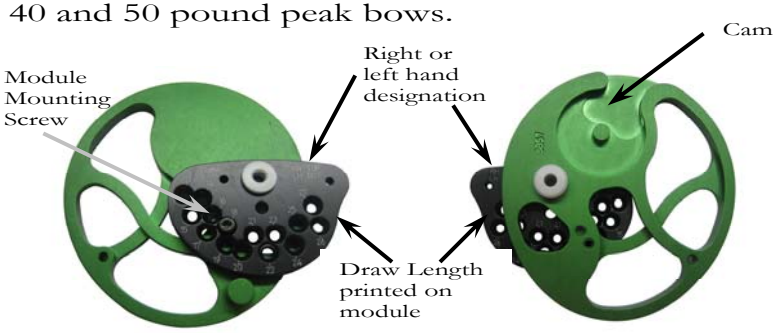


Back View **Front View**

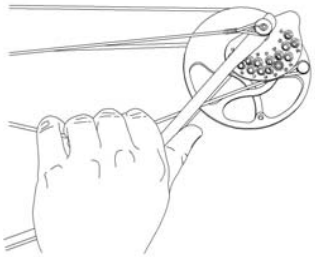
CAM ADJUSTMENTS

Adjusting Draw Length – Rotating Modular Cam System with MultiDraw

The adjustable multidraw cam equipped bow can be configured to provide a draw length from 13" to 27" in 1" intervals. No bow press is required to adjust the multidraw cam system. To adjust the draw length, first remove the socket head cap screw located in the rotating module. Next rotate the module to the desired draw length and reinstall the screw in the corresponding hole. It may be necessary to pull the cable away from the module to provide clearance for the module to rotate, see the picture below. Next perform the same operation on the opposite cam. Be sure that both the top and bottom cams are set to the same draw length position. The adjustable cam operates on a sliding poundage scale where an increase in draw length also provides an increase in peak draw weight. This allows the bow to grow with the archer. The chart below shows the peak draw weight at each draw length for the 29, 40 and 50 pound peak bows.



Back View **Front View**



DRAW LENGTH VS. PEAK WEIGHT			
DRAW LENGTH	50 LB PEAK DRAW WEIGHT	40 LB PEAK DRAW WEIGHT	29 LB PEAK DRAW WEIGHT
27"	50	40	29
26"	48	38.5	28
25"	46	37	27
24"	44	35.5	26
23"	42	34	25
22"	40	32.5	24
21"	38	31	23
20"	36	29.5	22
19"	34	28	21
18"	32	26.5	20
17"	30	25	19
16"	28	23.5	18
15"	26	22	17
14"	24	20.5	16
13"	22	19	15

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 Bear Archery dealer can help you.

Arrow Rest Installation & Setup

Arrow rests should be installed according to the manufacturer's specifications. The first adjustment you need to perform is setting the vertical height of your arrow rest. When properly adjusted, your arrow rest should align the centerline of the arrow with the center of the two holes used to mount the rest to the riser. To check this, place an arrow in the rest and nocked on the string. Visually confirm the center of the arrow passes directly through the center of the arrow rest mounting holes when viewed from the side. If not, adjust your rest up or down to correct.

Next, the rest should be adjusted for proper "Centershot". With an arrow in the rest and nocked on the string, firmly hold another arrow against the inside of the riser near the arrow rest mounting holes as illustrated. Look down the arrows and verify that the arrows are parallel to each other. In other words, the spacing between the two arrows should be the same along the entire length of the arrows. If not, adjust your rest side to side to correct. This is only your "initial" centershot and additional fine tuning may be required depending on your shooting style and equipment.

Place arrow firmly against inside of riser as shown.

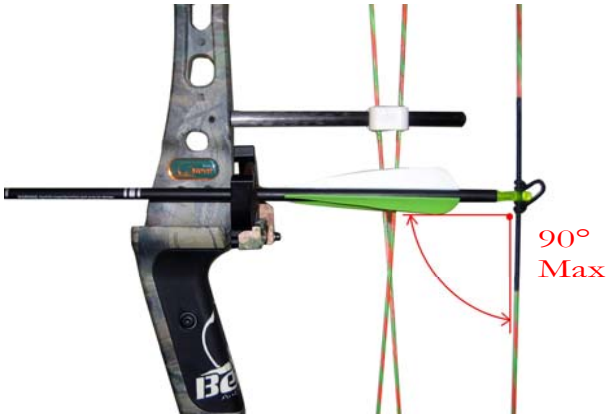
Arrow rest should support the arrow in such a way that the arrow's centerline passes directly through the center of the two arrow rest mounting holes.

Arrows should be parallel along their entire length.

Nocking Point and Nock Adjustment
Now that the initial centershot setting is complete, you need to verify your arrow nocking point. Install the nocking point or string loop on the bowstring so that when an arrow is nocked it creates a 90 degree angle to the string. Another option is to use a process similar to the one used to determine centershot. With an arrow in the rest and nocked on the string, firmly hold another arrow against the shelf of the riser as illustrated. Look down the arrows and verify that the arrows are parallel. In other words, the spacing between the two arrows should be the same along the entire length of the arrows. If not, adjust your nocking point up or down to correct. At this time, adjust arrow fletch position to correspond with the arrow rest you are using. Such adjustments are done by simply rotating or replacing the arrow's nock. Carefully position the nock to provide proper fletch clearance through the arrow rest. Your local Bear Archery dealer can show you how to do this or can provide the service for you.

Install All Accessories
After your arrow rest and nocking point are installed correctly you will need to install all other accessories such as sights, quivers, silencers, peep sights, stabilizers, etc. Before mounting ANY accessories to the limbs, Refer to page 3 for important limb information.

INITIAL BOW SETUP



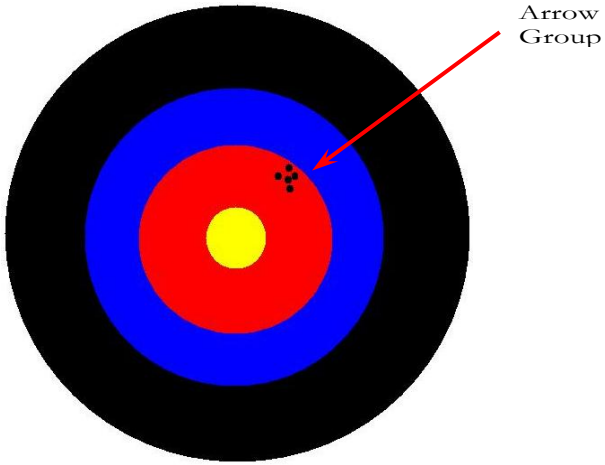
Place arrow firmly against shelf of riser as shown.

Arrows should be parallel along their entire length

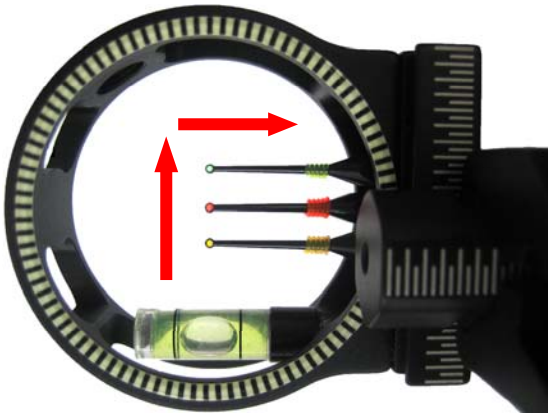
INITIAL BOW SETUP

Sight Adjustment

When first sighting in your new bow or bow sight, the key thing to remember is "Chase the arrows". In other words if your arrows are hitting the target to the right of the bull's-eye, move your sight to the right. If the arrows hit high on the target, raise your sight.



In the picture above, the arrows are hitting the target high and to the right of the bull's-eye. To correct this, adjust your sight up and to the right. Remember, "Chase the arrows."



ARROW SELECTION

Arrow selection depends on the peak draw weight, let-off and draw length settings of your bow. Refer to arrow manufacturer's arrow selection tables using this information. 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)	X	Multiply by 5 Grains per Pound	=	Minimum Safe Arrow Weight (Grains)

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 local Bear Archery pro shop or arrow manufacturers for arrow selection recommendations.

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
400-30" 240 Gr	+	Mag 125 (+125 Gr)	+	(+35 Gr)	=	Weight (=400 Gr)

NOTE: It is always best to use a grain scale when available.

Bear Archery Warranty Statement

All Bear Archery compound bows are backed with a Limited Lifetime Warranty to the original owner. This warranty applies to limbs, risers, and cams. This warranty consists of the following programs:

•Limbs: 100% covered at no charge for the first 5 years, 50% of replacement cost after.
•Risers: Lifetime Warranty.
•Cams: Lifetime Warranty.

Original Owner:
Warranty applies only to the original owner and is not transferable. Proof of purchase may be required.

Items Not Covered:
Cables, strings, bearings, paint and/or film dipped finishes resulting from normal wear and tear are not included in this warranty.

Damage Not Covered:
Damage caused by abuse, mishandling, dry firing, alteration or modification made to original products are not covered under this warranty. The use of any bow press other than those approved by Bear Archery will void this warranty. Additionally, shooting of arrows less than 5 grains per pound of peak draw weight will void this warranty. Bear Archery reserves the right to make parts substitutions on warranty coverage at Bear Archery's sole discretion, for any reason.

Bow Warranty Registration:
For this warranty to be in effect, the on-line warranty registration process must be completed at BearArcheryProducts.com and submitted within 30 days of purchase.

Traditional Bows: 1 year Limited Warranty to the original owner.
Youth Bows: 90 Day Limited Warranty to the original owner.

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Bear Archery Warranty Statement

In the event a bow requires warranty service, please contact the Bear Archery Customer Department at 800-694-9494 for a return authorization (RA) number and return shipping instructions. For full warranty details, please log on to BearArcheryProducts.com for further information.

Key Contact data:
Dealer 800 Number: 800-694-9494
Dealer Fax Number: 812-467-1245
Web: **www.BearArcheryProducts.com**

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