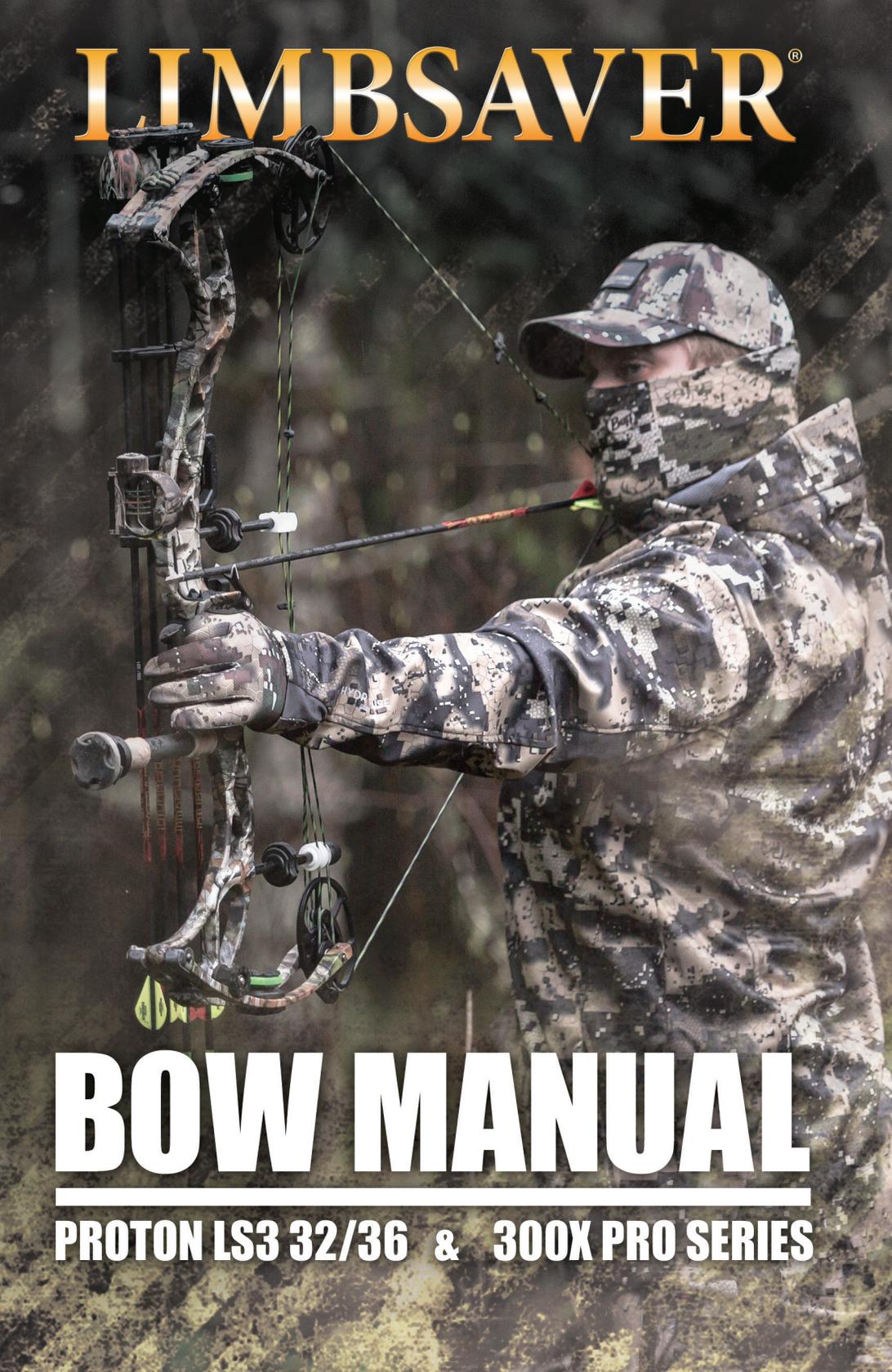


# LIMBSAVER<sup>®</sup>

A person wearing a camouflage hat, face mask, and jacket is shown in profile, aiming a compound bow. The bow is also camouflaged and has various accessories attached. The background is a blurred natural setting.

# BOW MANUAL

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**PROTON LS3 32/36 & 300X PRO SERIES**

# PROTON LS3-32, PROTON LS3-36, 300X PRO SERIES

POSI-LOCK  
POUNDAGE  
ADJUSTMENT

LIMBS

TOP CAM

STRING

SPLIT BUSs CABLE

CONTROL CABLE

RISER

TEFLON CABLE  
SLIDE

SHELF

GRIP

STABILIZER  
MOUNT

STRING LEECH

SPLIT BUSS LOOP

STRING STOP

CONTROL LOOP

TWISTLOX  
LIMB DAMPENER

BOTTOM CAM

## BOW SPECS



### PROTON LS3-32

AXLE: 32"  
SPEED: 332 FPS (IBO)  
BRACE HEIGHT: 7"  
MASS WEIGHT: 4.2lbs bare  
LET OFF: 75/80%  
DRAW WEIGHTS: 40/50/60/70  
DRAW LENGTH: 24"-32"



### PROTON LS3-36

AXLE: 36"  
SPEED: 315 FPS (IBO)  
BRACE HEIGHT: 7.5"  
MASS WEIGHT: 4.5lbs bare  
LET OFF: 80%  
DRAW WEIGHTS: 40/50/60/70  
DRAW LENGTH: 24"-32.5"



### 300X Pro Series 36

AXLE: 36"  
SPEED: 315 FPS (IBO)  
BRACE HEIGHT: 7.5"  
MASS WEIGHT: 4.5lbs bare  
LET OFF: 80%  
DRAW WEIGHTS: 40/50/60/70  
DRAW LENGTH: 24"-32.5"

**Welcome to the Team Limbsaver!**

Limbsaver uses only the highest quality materials in the construction and assembly of the Proton and 300X bows. Fully-pultruded and laminated limbs on the Proton bows with CNC-machined aluminum are only some of the initial stages of quality materials and craftsmanship. Limbsaver has also teamed up with America's Best to provide the best strings in the sport of archery on the bows. Thank you for purchasing a Limbsaver® bow!

Limbsaver's® lines of precision hunting and competition bows are the most technologically-advanced on the market. We are confident that this will be the best bow you have ever owned! Limbsaver® bows embody the utmost blend of speed, accuracy, vibration and sound reduction, as well as smoothness, to provide you with years of dependable performance.

Be sure to familiarize yourself with the technology, terminology, and maintenance procedures that are contained within this manual.

It is a good idea to inspect your bow often or have a licensed bow technician inspect it frequently. It is not recommended that you make any self repairs, additions or modifications to your bow. However, if you have made any self repairs, it is recommended that you always have a qualified Limbsaver® bow technician fully inspect the bow before the first use. Alterations to the bow that deviate from factory specifications may lead to damage that may not be covered by your Limited Warranty. Additionally, self repairs, additions and modifications made to the bow may void your Limited Warranty.

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# LIMBSAVER®



## SAFETY INFORMATION

1. Please read and heed all warnings and instructions included in the following text. It is vital for your safety, the safety of others and the safety of your property that you read and understand how this bow functions and how this bow interacts with accessories as a complete mechanical system. It is recommended that your equipment always be installed and serviced only by an authorized Limbsaver® bow technician.

2. NEVER dry-fire this or any other bow! "Dry-Fire" is the term for releasing the bow at any point in the draw cycle with no arrow attached to the string to absorb the energy of the shot. This not only can cause irreparable damage to your equipment, but also creates an extreme risk of injury to you and bystanders. If you have accidentally dry-fired your bow, immediately take the bow to your authorized Limbsaver® dealer to fully inspect for damage. Once the bow is inspected/repaired and after a few hundred more shots, follow-up with a second inspection by the same authorized Limbsaver® dealer. If you need replacement parts for any reason, have your dealer contact Limbsaver® directly for part costs. PLEASE READ YOUR LIMITED WARRANTY FOR ADDITIONAL DETAILS as a dry-fired bow could void any and all claims under the Limited Warranty included with this purchase. Typical components that are compromised in a dry-fire include, but are not limited to the string, cables, bearings, axles, cams and limbs. Rubber components, Teflon®, and strings are never covered under warranty as these are wearable items. It is imperative to heed all safety precautions and wear eye protection at all times!

3. Always provide adult supervision when a child or minor is using a bow. A bow is a weapon that is designed to cause permanent and fatal damage. Bows are not toys. Bows are designed to be used with caution, safety and common sense. When used responsibly, a bow can be fun, challenging and promote development of a life-long skill and hobby. Teach bow safety to children and supervise them every time the bow is used. Contact your local bow hunting safety trainers and/or your local dealer for information, instruction and training. Use appropriate safety gear when using any bow. These include, but are not limited to, eye protection and an arm guard.

4. Always be aware of your target and the area around and behind your target. Remember that arrows can ricochet and fly well past or through your target. Before each shot ensure that there are no objects or people down-range. Never aim a bow (loaded or unloaded) in the direction of any person or in any situation where you do not have a clear and unobstructed path to a safe and appropriate target. Arrows are designed to penetrate and pose a serious danger well beyond the target. Never fire an arrow directly up in the air.

**EVERY BOW THAT WE PRODUCE IS BUILT WITH PRIDE AND TEST-FIRED TO ENSURE THE QUALITY AND CONSISTENCY THAT WE STRIVE FOR. NOT A SINGLE BOW LEAVES WITHOUT FIRST BEING GIVEN OUR STAMP OF APPROVAL.**

**-JEFF LOUWSMA, MASTER BOW TECHNICIAN**

**LIMBSAVER®**

**5. Inspect your Limbsaver® bow fully before each use. Inspect strings regularly and perform general bow maintenance on your bow. It is a good idea to get your bow inspected a minimum of once annually by a qualified and experienced Limbsaver® dealer or pro-shop, to evaluate all mechanical and working aspects of the bow to ensure safe, dependable and continuous use. If you shoot often, it is a good idea to have your bow inspected more frequently. It is not recommended that you make any self repairs, additions or modifications to your bow. However, if you have made any self repairs, it is recommended that you always have a qualified Limbsaver® bow technician fully inspect the bow before the first use. Alterations to the bow that deviate from factory specifications may lead to damage that may not be covered by your Limited Warranty. Additionally, self repairs, additions and modifications made to the bow may void your Limited Warranty.**

**6. Inspect each arrow between every shot. Make sure that your nocks, fletching, and broadheads or field points are correctly installed and secure. Look for any small cracks at the nocking point end and along the entire shaft of each arrow. If any cracks or evidence of stress is apparent, immediately discontinue use of that arrow. Structurally-compromised arrows can cause serious damage to you, your equipment and others. Follow safety precautions per arrow manufacturer. In addition, it is a good policy to check your strings and cables for wear. This includes components and accessories attached to your string and cables such as: cable leeches, string leeches, peeps, nocks and string loops.**

**There is no other bow on the planet  
that is as quiet, forgiving, and deadly  
right out of the box.**

**-Shaun Hilton**

**Steven Sims, Inc., Sims Vibration Laboratory, Limbsaver®, their parents, subsidiaries, affiliates, successors, assigns and licensees shall not be liable for any bodily injuries or property damage suffered by the purchaser or third parties related to or arising from the ownership and/or use of the Limbsaver® bow or its accessories. The purchaser hereby accepts his/her responsibility for bow use and indemnifies Steven Sims, Inc., Sims Vibration Laboratory, Limbsaver®, their parents, subsidiaries, affiliates, successors, assigns and licensees from any and all such liability.**

7. Understand the basic safety rules and tips for using a bow and its accessories in both recreational and hunting environments. If you have never fired a bow, it is recommended that you attend a bow training and safety class or seek the advice of an experienced bow technician. Learn how to care for and maintain your equipment. Ask your dealer for information and research for the proper, ethical and safe ways to use your compound bow. In most states it is mandatory to attend hunter safety classes before you are legally able to hunt with a compound bow. Always research, understand and follow all local hunting laws and practices.

8. The Limbsaver® bow line has some components that function differently from what you may be used to with conventional compound bow designs. Notwithstanding the self-maintenance provisions in this guide, it is recommended that regular maintenance of all mechanical and structural aspects of your bow should always be performed by a qualified technician experienced with Limbsaver® products. It is your responsibility to ensure that the repair or maintenance shop you select is an authorized Limbsaver® shop that has experience in repairing your type of bow. It is not necessary to over-tighten bolts. Check all aspects of the bow for excessive wear. If you have questions or concerns about any aspect of your bow and its accessories, take it to your Limbsaver® dealer for inspection before use.



**LIMBSAVER®**

## GENERAL MAINTENANCE:

The Proton LS3, LS3-36, and 300X have an innovative poundage adjustment system called the Posi-Lock Limb System. Each of the four individual limbs has its own Posi-Lock. It is recommended that each limb setting is on the same number when adjusting this system. Use the wrench included with your Proton to make poundage adjustments by placing the wrench over the external geared section of the Posi-Lock system and rotating it, clicking the fulcrum to the next number. Never use pliers or vise-grips to make poundage adjustments as these may cause damage to the Posi-Lock system. This will take away approximately 2 pounds from the limb for each number moved on a 60/70-peak poundage bow and approx 1½ pounds off of a bow with 50-pound peak weight. The number that is closest to the limb is the number that the limb is currently set on. Because this adjustment only changes the fulcrum preload, you can change the poundage of your bow at any time without affecting the axle to axle, brace height, draw length, or tune.

### *LIMBSAVER INNOVATION AT ITS FINEST*

If you feel that your bow is not operating to the exact specifications that you feel it should, please never hesitate to call our excellent team of specialists at Limbsaver® directly! We take pride not only in manufacturing “Products That Work”, but also having our products work flawlessly for our customers. If there is anything that you need or would simply like to relay a question, comment or concern, please never hesitate to call and ask at 360-427-6031.



**Note:** All four of the Posi-Lock adjustment points must be set to the same poundage adjustment setting (e.g. 4-4-4-4, or 5-5-5-5, or 6-6-6-6, etc.) before the bow is drawn and fired. Drawing the bow, or drawing and firing the bow without the Posi-Lock adjustment system being correctly set may cause damage to the bow and injury to the archer. Please inspect settings often.

Your Limbsaver® bow is a finely-tuned mechanical device designed to operate smoothly, quietly and provide years of service. However, like all mechanical systems, regular maintenance is required to make sure that your bow will perform to its designed capabilities far into the future. An inspection for required upkeep should be done regularly by you before each use, as well as a periodic inspection by a qualified and authorized Limbsaver® bow technician. Items to regularly inspect include, but are not limited to: axles, spacers, lubrication, strings and cables, cable slide, limbs, cam bearings and riser; ensure that all of the bolts and e-clips are installed and to correct tightness.

## STRING AND CABLE CARE:

A. If your bow string needs replacement for optimal performance, it is recommended that you only replace the strings with America's Best Bowstrings® available through Limbsaver®. America's Best Bowstrings® are unparalleled in quality and for maintaining tune over time. Even the highest caliber of strings can settle in for the first 100 shots, so it is best to have your Limbsaver® bow evaluated for tune after this period of time. It is vital that cables are crossed in the correct configuration.

B. Regularly apply bow string wax to your string and cables. We recommend using our string wax as it contains a conditioner and a lubricant to help promote long string life. Limbsaver® chose to use America's Best Bowstrings® to provide you with the highest string quality available. You can keep the quality serving you for a long time with regular waxing. If you need a demonstration on how to properly apply bow string wax, simply ask a knowledgeable employee at your bow shop. With normal use the strings and cables on your bow will last longer with proper waxing. You should also replace your strings when they start to look worn.

C. If your Limbsaver® bow is equipped with a Sims String Decelerator it will come preset from the factory. This can be adjusted, and is worth a periodic inspection to make sure that the string is coming to rest centered in the groove on the Decelerator. There is a set screw on the mounting bracket to allow you to move the rod toward or away from the string. The string should come to rest, just barely, on the String Decelerator. You do not want the pad of the Decelerator putting pressure on the string at rest.

## BOW PRESS:

It is recommended that you use a bow press designed for parallel limb bows, like a Last Chance Archery press.

## **PARTS WEAR:**

Certain parts on your bow will wear down over time and need replacement. Outside of the strings and cables, other parts include, but are not limited to: String Leeches®, cable slide, cam bearings, Limbsaver's® and other rubber products on the bow. It is not recommended that you use any type of lubricating spray to lubricate any part of the bow. Use of a lubrication spray will cause dirt and debris to accumulate and cause excess or accelerated wear.

## **TIMING TIPS AND TRICKS:**

Every Limbsaver® compound bow is timed and tested at Sims Vibration Laboratory before shipment to optimize performance. Should your bow need repair or replacement, remember that after each repair and/or replacement, it is necessary to re-time the bow to its original factory settings for optimum performance. The following information is related to the tuning and function of the High Efficiency Active Transfer (H.E.A.T.) Cam on the Proton bows.

It is recommended that you always have an experienced bow technician service your bow.

## **MODULAR CAMS:**

All Limbsaver® bows ship standard with Modular Cams. Modular Cams with modules that change the draw in ½" increments. Refer to [Limbsaver.com](http://Limbsaver.com) for the most up-to-date charts and information on the modules that will work for your draw length. The Limbsaver® website is also an excellent resource for original tune specifications. Each cam and modular draw length adjustment has machined identifiers on them for easy identification.

## **VOCABULARY:**

There are a few words that are used to describe the tune of a bow.

A. How the cams rotate in conjunction to each other is called "timing". Timing directly relates to the overall bow tuning and the efficiency in which it operates.

B. The "flats" on the cams refer to the location at which the cables come to rest when the bow is at full-draw. There is a draw stop at the end of the cam rotation, and this will be discussed additionally as another visual indicator to see if the bow is adequately tuned.

C. "Axle to axle" is a simple measurement of the distance from the center of the top axle at the end of the limb to the center of the bottom axle at the end of the limb. Check your limb sticker for what your axle-to-axle measurement should be, plus or minus one-eighth of an inch.

**NOTE:** Brace height, axle to axle, length, poundage and other variables may change based on designated draw lengths and peak weight variables.



## **TIMING:**

An ideal set up for the Limbsaver® bow includes an axle-to-axle measurement equal to original factory settings, with the top cam and bottom cam timed to contact the draw stops at the same time at the end of the draw cycle and the limb pockets bottomed out, or the bow at peak limb weight. On the Proton bows, make sure that the Posi-Lock adjustment is rotated to the highest number toward the limb.

1. If your bow is outside the axle-to-axle measurement plus or minus one-eighth of an inch, then you will first want to adjust your buss cable to bring the axle-to-axle measurement back into the optimum location. If the bow axle-to-axle measurement is longer, then you want to put twists into your buss cable. If the bow is shorter, then you want to remove twists from your buss cable to bring it back to the original measurement, plus or minus one-eighth of an inch. This adjustment will typically throw one cam well off optimal timing. This will be fixed in the following steps. After you have determined and adjusted the buss cable to gain the correct axle-to-axle measurement (if necessary), then draw the bow and evaluate the draw stops on each cam, and determine which cam's stop is hitting the cable first. There are different adjustments that can be made to the control cable depending on which cam hits the cable first.

A. If the top cam is hitting the draw stop first, then you need to add twists to your control cable until both cams' draw stops are tuned to contact the cable at the same time.

B. If the bottom cam touches first, then you need to take twists out of your control cable until both cams touch at the same time. It is perfectly acceptable for the top cam to hit slightly ahead of the bottom cam; this is sometimes preferred as a point of tune for a slight gain in speed, at the cost of additional felt vibration. It is also acceptable for the bottom cam to hit slightly ahead for a decrease in felt vibration at the slight cost of speed.

2. The buss cable should be located between the two scribe marks on the outside of the bottom cam at quoted draw length. Optimally, the buss cable should run parallel to these scribe marks and be in the center of them (at original factory specifications). This ensures proper string alignment and is a quick visual gauge to see if your bow may be out of tune. While the buss cable is used as a reference point in these scribe lines, this adjustment to bring the buss cable parallel inside these scribe marks is actually controlled by the string. This is simply a quick check, and it is best to look to the draw stops on the cams and tune to them for optimal performance.

**CONTINUED ON NEXT PAGE...**

3. The buss cable controls axle to axle, the control cable controls the timing between the two cams and the string controls the rotation of both cams. The final tuning step is to control the rotation of both cams once the axle-to-axle measurement has been set and the control cable has been timed to contact the draw stops. If the buss cable is on the line closest to the string, then you need to take twists out of your string to bring the buss cable in between the two lines for proper rotation of the cams. If the buss cable is outside the opposite scribe line, then you need to add twists to your string to bring the buss cable in between the two lines.

**NOTE:** Very few rotations or “twists” in or out of the strings and cables are typically needed to make any adjustment in all of the strings and cables to bring the bow back into tune.

### **TIPS:**

If your bow is timed to contact the draw stops and is outside the ideal axle-to-axle measurement, you can put the same number of twists in the string, control cable, and buss cable to bring your ideal axle to axle in line and maintain timing and cam orientation. The most confusing tuning puzzle might be if you put twists in your buss cable, to bring your axle-to-axle measurement back into the correct range, when your top cam was ahead. This would result in the top cam being even further ahead of the lower cam after this buss cable adjustment. However, only when your axle-to-axle measurement is back in tune, would you want to take turns into or out of your control cable to bring the top cam back into alignment with orientation to the bottom cam.

Should your bow ever need repair or replacement, take the bow to the authorized Limbsaver® dealer where it was purchased. The dealer will work with SVL to repair or replace the bow or send the bow back to SVL for evaluation and repair. There are specific instructions to follow when returning a bow for repair or replacement under warranty, and failure to follow them could lead to delays in repairs or an unfixed bow being returned. SVL will never issue a call tag or pay freight for a warranty repair sent to our facility. You must submit a return address or return authorization number from the dealer printed clearly on the outside of the package containing your bow for any claim under this Limited Warranty. A copy of the original sales receipt must accompany any claim under this Limited Warranty. Failure to provide a return address or authorization number or to provide a copy of the original sales receipt may cause the claim to be refused. SVL is not responsible for the loss of any personal property left on the bow as well as damage to paint, camouflage, or other cosmetic embellishments or accessories left on the bow when it is returned to SVL in connection with this Limited Warranty.

## **WARRANTY 1 (360) 427-6031**

Steven Sims, Inc., dba Sims Vibration Laboratory, Inc. ("SVL") warrants to the original purchaser of its bow that each bow purchased from an authorized SVL dealer will conform to SVL's specifications and will be free from manufacturing defects in workmanship and materials. This Limited Lifetime Warranty ("Limited Warranty") is offered and made only to the original purchaser and is not transferable. This Limited Warranty does not cover wear and tear of component parts such as bow string, buss and control cable, cable slide, rubber components, including Limbsaver®, String Leeches®, integrated riser rubber components, or cosmetic flaws from wear and tear on the camouflage finish. SVL reserves the right at its sole discretion to make any and all substitutions on parts covered by this Limited Warranty. SVL does not guarantee paint, cosmetic and/or camouflage matching for bows returned to SVL for repair under this Limited Warranty. SVL reserves the sole and exclusive right to determine whether any part of any bow is eligible for replacement and/or repair under the terms of this Limited Warranty. This Limited Warranty limits the obligation of SVL to the repair or replacement of manufacturing defects in material or workmanship. This Limited Warranty will be void and SVL will have no obligation to repair or replace components of any bow when SVL has determined upon inspection that damage has resulted from misuse, mishandling, abuse, including but not limited to dry-firing (including shooting arrows less than 5 grains per pound), firing structurally-compromised arrows, exposing the bow to extreme heat or cold for extended periods of time, unauthorized alterations, addition of after-market modifications, failure to maintain or service the bow according to SVL guidelines, or use of the bow in an improper manner inconsistent with SVL's Owner's Manual. Any unauthorized physical modification or alteration of an SVL bow voids this Limited Warranty and may violate SVL's intellectual property rights. This Limited Warranty shall be void for any bow purchased over the internet or from any source other than through an authorized Limbsaver® dealer. This Limited Warranty shall be void if at any time the bow was placed in a bow press other than the X-Press by SURE-LOC®, or an acceptable equivalent recommended in the Owner's Manual, whether or not such use resulted in substantial or irreparable damage to the bow. This Limited Warranty shall be void if at any time the original purchaser exchanges, modifies, removes, or otherwise changes or conceals the factory assigned serial number or attempts to pass off any bow with a serial number from a different Limbsaver® bow. SVL makes no assurance under this Limited Warranty that any bow can be repaired. This Limited Warranty does not authorize a dealer to approve or make any warranty repair at SVL's expense.

**THIS LIMITED WARRANTY PROVIDES YOU WITH SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IT IS UNDERSTOOD AND AGREED THAT SVL'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE OR OTHERWISE, SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF PURCHASE PRICE PAID BY THE ORIGINAL PURCHASER AND UNDER NO CIRCUMSTANCES SHALL SVL BE LIABLE FOR SPECIAL, CONSEQUENTIAL, INCIDENTAL, INDIRECT OR PUNITIVE DAMAGES. THE PRICE PAID FOR THE BOW IS A MATERIAL CONSIDERATION IN LIMITING SVL'S LIABILITY. THIS LIMITED WARRANTY OFFERS AND PROVIDES FOR ONLY ONE BOW REPLACEMENT TO THE ORIGINAL PURCHASER OF A BOW MANUFACTURED BY SVL AND PURCHASED FROM AN AUTHORIZED SVL DEALER.**

## TOP PORTION FOR YOUR RECORDS

**Bow Serial Number:** \_\_\_\_\_ **Bow Model:** \_\_\_\_\_ **Bow Year:** \_\_\_\_\_ **Purchased From:** \_\_\_\_\_

**Purchase Price:** \_\_\_\_\_ **Purchase Date:** \_\_\_\_\_ **Draw Weight:** \_\_\_\_\_ **Draw Length:** \_\_\_\_\_



Cut here and return lower portion to register product.

**RETURN THIS PORTION TO REGISTER BOW -OR- Visit [limbsaver.com/register](http://limbsaver.com/register)**

**Bow Serial Number:** \_\_\_\_\_ **Bow Model:** \_\_\_\_\_ **Bow Year:** \_\_\_\_\_

**Purchased From:** \_\_\_\_\_ **Draw Length:** \_\_\_\_\_ **Draw Weight:** \_\_\_\_\_

**Purchase Price:** \_\_\_\_\_ **Purchase Date:** \_\_\_\_\_ **Sales Person:** \_\_\_\_\_

**Your Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City / State / Zip:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

PLACE IN ENVELOPE AND MAIL TO:

LIMBSAVER SVL  
WARRANTY DEPARTMENT  
50 WEST ROSE NYE WAY  
SHELTON, WA 98584



**LIMBSAVER<sup>®</sup>**

**50 West Rose Nye Way Shelton, WA 98584**

**[WWW.LIMBSAVER.COM](http://WWW.LIMBSAVER.COM)**