BY USE SIMS VIBRATION LABORATORY



MESAL



LimbSaver uses only the highest quality materials in the construction and assembly of the DeadZone and SpeedZone bows. Fully-pultruded fiberglass limbs and CNC-machined aluminum are only some of the initial stages of quality materials and craftsmanship. LimbSaver also teamed up with Winner's Choice to provide the best strings in the sport of archery on the bow. In addition, G-1 Next Generation Camo represents a bold new direction in camo pattern design. An innovative pattern that is not only extremely versatile, but also incredibly effective where it counts the most - in the field.



Congratulations! You are obviously a serious and informed bowhunter who has chosen the finest shooting system available. We feel that LimbSaver[®] is the most technologically-advanced compound bow line on the market today. 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.



DEADZONE

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. You do not need a bow press to take poundage off the bow. Simply loosen the drive bolts. Do not remove the drive bolts. Using a LimbSaver[®] bow in a conventional bow press can cause damage to the limbs, riser and other mechanical features. Use only the X-Press bow press by SURE-LOC® Archery Products or an equivalent. Before placing it in an X-PRESS bow press by SURE-LOC[®] or equivalent, start by taking 3 turns off the limbs from the bottomed out drive bolt position using a standard Allen wrench. If you feel the need to remove the weight from the bow more quickly, you may find a simple ratchet wrench or electric drill with the correct socket can greatly reduce the time to remove poundage from the limbs. Never over-tighten these bolts! Removing one bolt fully from the bow before loosening the other can cause catastrophic failure and/or ejection of the bow limb from the limb pocket. Loosen the drive bolts until the pressure is relieved from the limbs making disassembly possible. The drive bolts never need to be completely removed from the barrel nut.
- 3. 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, it is recommended that you immediately take the bow to your authorized LimbSaver® dealer to fully inspect for damage. 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, bearings, axles, cams and limbs. It is imperative to heed all safety precautions and wear eye protection at all times!
- 4. 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.

SAFETY INFORMATION:

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.

- **5.** 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.
- 6. 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.

7. 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 or 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.

SAFETY INFORMATION:

- 8. 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.
- 9. 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. At minimum, before each use of your bow it is a good idea to inspect it and make sure that the pivoting pocket lockdowns and other bolts are secure. 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.

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.



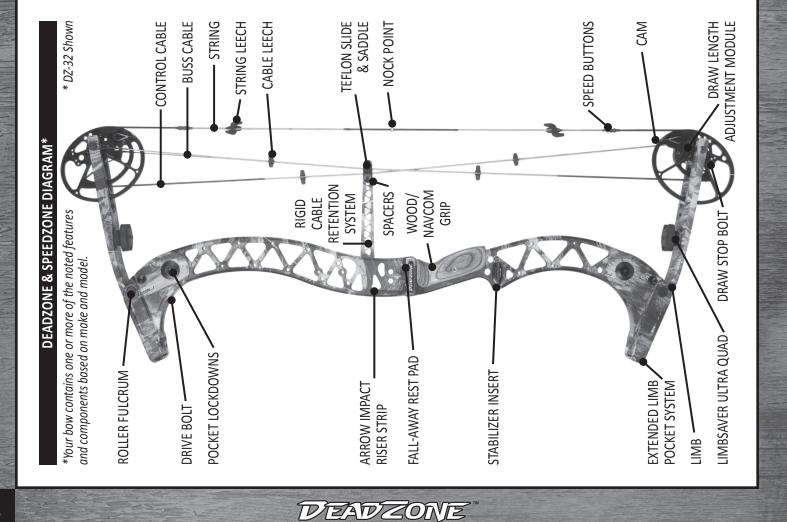
LIMBSAVER® COMPOUND BOWS ARE:

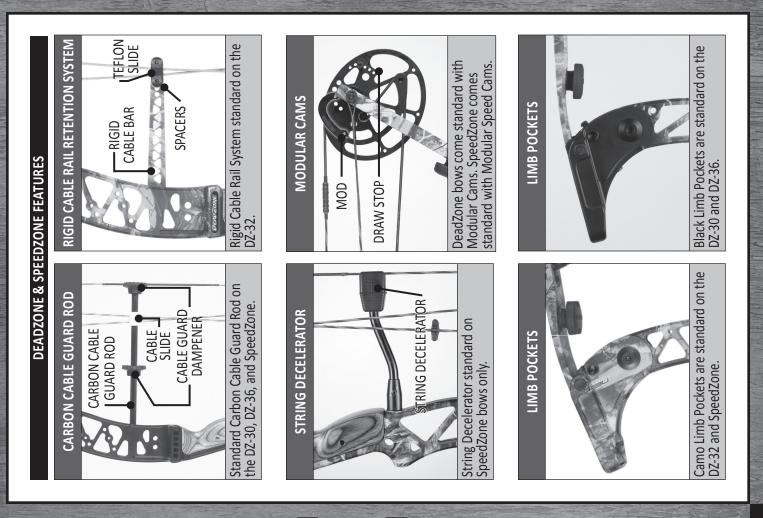
• Fast

- Smooth
- Accurate

- Torque-FreeEfficient
- Innovative
- Vibration Dampening







SPEEDZONE

GENERAL MAINTENANCE:

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 Limb-Saver[®] 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 Winner's Choice Custom Bowstrings® available through LimbSaver®. Winner's Choice Custom Bowstrings® are unparalleled in quality and for maintaining tune over time. Even the highest caliber of strings can settle in for the first 100-200 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. LimbSaver[®] chose to use Winner's Choice Custom 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 Rigid Cable Guard Rod you can make minor adjustments to the Teflon slide and saddle to compensate for larger or smaller fletching clearance. You can use the supplied spacers that are installed between the Teflon slide and the aluminum Rigid Cable Guard Rail. There are two thicknesses of spacers; the dimensions are 0.05" and 0.1". It should not be necessary to retune your LimbSaver[®] bow after making minor adjustments to the standoffs. Generally, you will run between 0.2" and 0.3" worth of spacer combinations to fit most arrows.
- D.If your LimbSaver[®] bow is equipped with a Sims String Decelerator it will come preset from the factory. This can be adjusted, but is worth a periodic inspection to make sure that the string is coming to rest centered in the groove on the Decelerator. The NAVCOM[®] part can be spun around the rod for an alignment, and there is a set screw on the mounting bracket to allow you to move the rod toward or away from the string.

BOW PRESS:

When performing work on your LimbSaver[®] bow always release the tension off the limbs and strings with an Allen wrench or a socket wrench. It is recommended when using a bow press to only use an X-Press bow press by SURE-LOC[®] or equivalent style bow press. It is recommended when using the bow press to first take 3 turns from the bottomed-out drive bolt position with a wrench. This helps to alleviate some of the stress on the limbs prior to pressing. Do not fully remove a power bolt from the limb pocket without first removing the poundage from the limbs and strings.

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. Additional minor greasing of the drive bolt, the half-round part attached to the top of the limbs, and the fulcrum (part between the limb and the limb pocket) will help to reduce friction and make sure that these parts will work together for a long time. 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.

TUNING TIPS AND TRICKS:

Every LimbSaver[®] compound bow is tuned 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-tune 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 DeadZone and SpeedZone bows.

It is recommended that you always have an experienced bow technician service your bow. Tuning is the most important aspect of proper bow function for speed and efficiency. The LimbSaver® bow line was designed to be performance-optimized with the factory tune. You will receive optimum performance with your bow as close as possible to maximum peak weight and axle to axle. Poundage, axle to axle and brace height measurements can fluctuate slightly.

MODULAR CAMS:

All LimbSaver[®] bows ship standard with Modular Cams. The SpeedZone bow has blue modules and all other modules are black. Refer to www.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. Below is the Modular Cam Chart per draw length and can be used to find the correct mod that you may need to augment your bow to the correct draw length.

DEADZONE MOD CHART				SPEEDZONE MOD CHART	
SMALL CAM MODS	DZ-30	DZ-32	DZ-36	SMALL CAM MODS	SZ- 34.5
H1X* TR/BR 1	25″	25.5"	27.5″	H1X* TR/BR 1S	25″
H1X* TR/BR 2	25.5"	26″	28″	H1X* TR/BR 2S	25.5″
H1X* TR/BR 3	26"	26.5"	28.5"	H1X* TR/BR 3S	26"
H1X* TR/BR 4	26.5"	27"	29"	H1X* TR/BR 4S	26.5″
H1X* TR/BR 5	27"	27.5"	29.5″	H1X* TR/BR 5S	27"
LARGE CAM MODS	DZ-30	DZ-32	DZ-36	LARGE CAM MODS	SZ- 34.5
H2X* TR/BR 1	27.5″	28″	30"	H2X* TR/BR 1S	27.5″
H2X* TR/BR 2	28"	28.5"	30.5″	H2X* TR/BR 2S	28″
H2X* TR/BR 3	28.5"	29"	31"	H2X* TR/BR 3S	28.5"
H2X* TR/BR 4	29"	29.5"	31.5″	H2X* TR/BR 4S	29"
H2X* TR/BR 5	29.5"	30"	32"	H2X* TR/BR 5S	29.5″
H2X* TR/BR 6	30"	30.5"	32.5"	H2X* TR/BR 6S	30"
*The "X" could be any alpha/numerical digit and is simply for in-house tracking purposes.					

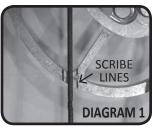
VOCABULARY:

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 (Diagram

2). 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. Please see the two diagrams below of cams in the resting position showing the scribe lines in Diagram 1, and the flats as shown in Diagram 2.

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

TUNING:

An ideal tune 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 in the draw and the limb pockets bottomed out. This means that the drive bolt is turned until the pocket is bottomed-out on the riser. Never over-tighten the drive bolt.

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 tolerance. 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 cams 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 and 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 (Diagram 1) on the outside of the bottom cam <u>at</u> <u>quoted draw length</u>. 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.
- **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 (Diagram 2). 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 twists in or out 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.

WARRANTY:

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.

REPAIR AND REPLACEMENT UNDER WARRANTY

Should your bow ever need repair or replacement, take the bow into 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.

SVL does not require tracking information or confirmation of delivery or any other mail services to identify your package. SVL is not liable for any bow or package sent into SVL under this Limited Warranty that is stolen, destroyed, damaged, rerouted or otherwise lost in transit to or from SVL. SVL is not required to confirm receipt of a package sent to SVL under this Limited Warranty.

DeadZone[™], LimbSaver[®], and String Leeches[®] are the registered trademarks of Steven Sims, Inc. and cannot be used or modified without the express written consent of Steven Sims, Inc. except as otherwise permitted by law.

WARNING

Using a LimbSaver[®] bow in a conventional bow press can potentially damage it. LimbSaver[®] only recommends use of the X-Press by SURE-LOC® or an equivalent. You need to back the drive screws 3 turns from the bottom before putting it in any bow press. The Limb Pockets on the LimbSaver[®] bow line are designed to eliminate the need for a bow press for breakdown and tuning. Installing the bow in a bow press (other than the X-Press or equivalent) can permanently damage the limbs, component parts and/or the mechanical function of your bow potentially causing serious injury. Loosen the limb pocket lockdowns prior to adjusting poundage with the drive bolts. Always re-tighten the limb pocket lockdowns after adjustment. Do not over-tighten.

BOW OWNER'S PAGE:

Bow Serial Number:					
Bow Model:	Bow Ye	ar:			
	Purcha	se Price:			
Purchase Date:	Draw Length: _	Draw Weight:			
String Length:	Buss Ca	Buss Cable Length:			
Control Cable Length					
Top Cam Mod Code:	Bottom	Cam Mod Code:			
PERSONAL BOW STATISTICS: (Optional)					
Peep Height:		Inches from nocking point			
Turns off of Bottom:					
Preferred Draw Weig	ht:				
Arrow Brand:	Arrow Model:				
Arrow Length:	_ Arrow Weight:	Arrow Point Weight:			

NOTE: Changing, modifying, or exchanging the serial number on your LimbSaver[®] bow with a serial number from a different LimbSaver[®] bow will void your Limited Warranty. Please see back of owner's manual for a complete list of items that could affect warranty status.

Staple Receipt Here

Original receipt is required for all claims under limited warranty.

SPEEDZONE

CET INTO THE ZONE!™

SIMS VIBRATION LABORATORY™

50 W. Rose Nye Way • Shelton, WA 98584 Toll Free: 1-877-257-2761 • limbsaver.com