



HOYT[®]
ARCHERY

COMPOUND BOW
OWNER'S MANUAL

WELCOME TO TEAM HOYT.

Congratulations on the purchase of your new Hoyt bow. We are excited and grateful to have you as a part of Team Hoyt. You will be pleased to know that you have purchased the most technologically advanced and dependable bow on the market. Only the finest components go into every Hoyt bow along with 90 years of industry-leading experience in bow technology and manufacturing. With proper use and some basic maintenance, your new bow will provide you with years of great shooting and dependability.

1 Archery is a very enjoyable form of recreation for people of all ages and abilities. It is important to note that archery equipment, when not used properly, can create a dangerous situation, including death and serious personal injury for the archer or those around them. It is up to you to be a responsible archer, protect both yourself and others when enjoying this great sport. Whether you are an experienced archer or have never shot a bow, you must **READ THIS ENTIRE MANUAL CAREFULLY** before using your bow. Following all warnings and instructions contained in this manual will help ensure you and others have the safest and most enjoyable shooting experience possible. Keep this owner's manual handy and reference it often. Should you lose this manual you can find a current manual online at www.hoyt.com. Good luck and safe shooting!

HOYT
ARCHERY



BOW OWNER'S PERSONAL INFO

Fill in the following personal bow record for your reference.

Bow Serial Number: _____

(See page 30 for information on where your bow serial number is located.)

Hoyt Bow Model: _____

Purchased From: _____

Purchase Date: _____

Draw Length: _____ (in.) Draw Weight: _____ (lb.)

String Length: _____ (in.) Buss Cable Length: _____ (in.)

Control Cable Length: _____ (in.)

IMPORTANT!

A copy of your sales receipt is required for warranty purposes.

The sales receipt, as well as the serial number, is your proof of date-of-purchase. Proof of date-of-purchase will be required if your bow ever needs warranty service.

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TO AVOID SERIOUS INJURY OR DEATH, FOLLOW THE SAFETY INFORMATION IN THIS MANUAL.

This manual contains several safety warnings and instructions preceded with **⚠️WARNING**, **⚠️CAUTION** or **📌NOTICE**. These signal words are designed to draw attention to important safety information. **⚠️WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious personal injury. **⚠️CAUTION** indicates a hazardous situation, which, if not avoided, could result in moderate or minor personal injury. **📌NOTICE** addresses safety practices not related to personal injury.

⚠️WARNING

READ THIS MANUAL CAREFULLY BEFORE HANDLING OR USING YOUR HOYT BOW. YOU ARE RESPONSIBLE FOR ARCHERY SAFETY.
Read and follow all warnings and guidelines for safe operating parameters at www.hoyt.com/safetyandwarnings

The warnings contained within this owner's manual were current at time of printing. For the most up to date list of warnings please visit:

www.hoyt.com/safetyandwarnings

⚠️WARNING: Always read the warning labels and manufacturer's instructions of all products being used in conjunction with a Hoyt bow, including but not limited to all archery accessories and components directly attached to the bow or used in conjunction with the bow such as targets, arrows, broadheads, release aids, etc.

⚠️WARNING: It is critical that your bow is set up and functioning within the bow's required safe operating parameters prior to use. Hoyt recommends that only a Genuine Hoyt Retailer setup and inspect your archery equipment to ensure that it is set up within the bow's safe operating parameters. (see page 6 for definition of Hoyt Bow Safe Operating Parameters).

⚠️WARNING: To avoid severe personal injury, to yourself or bystanders, as well as damage to your bow, it is of the utmost importance that only Hoyt approved bow presses should be used to press Hoyt bows. Hoyt recommends that only Genuine Hoyt Retailers press your bow. See page 9 for guidelines on pressing Hoyt bows.

⚠️WARNING: Carefully inspect your bow before each use. Before you handle or shoot your bow, carefully inspect the condition of your bow, accessories, arrows, and your release aid to ensure they are in good and proper working condition. Any suspected damage to your bow should be inspected by Hoyt or a Genuine Hoyt Retailer for possible repair or replacement.

⚠️WARNING: Before you handle or shoot your bow or other archery products, Hoyt recommends that you be trained and instructed in proper use by a certified archery coach. Sources such as USA Archery (www.teamusa.org/usa-archery/coaching/find-an-instructor-or-coach), the National Field Archery Association **NFAA** (www.nfaausa.com/state-organizations), and The Archery Trade Association **ATA** (www.archery360.com) have contact information for certified archery coaches in your area. Other archery associations in your area or country may also have suitable programs.

⚠️WARNING: An adult should always supervise minors when they are handling or shooting a bow.

⚠️WARNING: Never use alcohol or drugs while handling or shooting your bow.

⚠️WARNING: Always wear safety glasses when handling or shooting your bow.

⚠️WARNING: Never let go of the bow handle while drawing the bow, holding the bow at full draw, or shooting the bow. It is important that you are able to maintain a consistent and secure grip on the bow handle without slippage of your hand on the bow grip. Use of items such as hand lotions, sunscreens, and bug repellents may limit your ability to maintain control of the grip.

⚠️WARNING: Always ensure that the area around your bow is clear of any and all obstructions to prevent items from being caught in the moving parts of the bow. When shooting your bow, never wear loose clothing, jewelry, or other items worn on your body that may get caught in the bow or bow string when the bow is shot.

⚠️WARNING: Never point or aim a bow at another person. Be sure of your target and what lies beyond. Never shoot arrows straight up into the air. Make sure that the path from where you are shooting to the target and beyond is free from people and obstructions. The view that you see when looking through your sight while shooting (the sight picture) may not clearly show the trajectory path of the arrow.

⚠️WARNING: Never dry fire your bow. To dry fire your bow, means to shoot the bow without an arrow. Never try drawing a bow that is too heavy for your strength or that does not fit your draw length as this could lead to an unintentional dry fire. A dry fire could cause your bow to break and cause death or serious injury to you or others. If your bow is dry-fired there could be both seen and unseen damage and it should be returned to Hoyt or taken to a Genuine Hoyt Retailer for inspection before any further use.

⚠️WARNING: Never loosen your limb weight adjustment bolts more than 8 turns as it could cause the bow to violently disassemble. (Note: 10 turns is acceptable on certain youth bows. Consult Hoyt Customer Service for details.)

⚠️WARNING: Do not perform any maintenance, adjustments, or have any work performed of any kind on any part of your bow while drawing or during any other part

of the shooting cycle. Do not allow others to work on or touch any part of your bow during the shooting cycle.

⚠️WARNING: Never shoot a bow with the incorrect arrow size (spine) or the incorrect arrow length. Shooting an incorrect arrow size or length could cause your arrow to break and cause serious injury to you or others. Refer to the specific arrow manufacturer's arrow selection chart to select the correct arrow size and length for your setup.

⚠️WARNING: Never shoot an arrow weighing less than five grains for every pound of peak draw weight of your bow. For example: If your bow's peak draw weight is 70 pounds, do not shoot an arrow weighing less than 350 grains. Shooting an arrow below five grains per pound of peak draw weight could cause your bow to break and cause death or serious injury to you or others.

⚠️WARNING: Never shoot a damaged arrow. Before each shot, inspect your arrows for damage. See the specific arrow manufacturer's warnings and instructions on proper arrow inspection methods. Discard all damaged arrows.

⚠️WARNING: Never mechanically alter or modify your bow. Drilling holes, cutting, filing, or sanding are examples of mechanically altering your bow which will likely cause the bow to break and could cause death or serious injury.

⚠️WARNING: Never alter your Hoyt bow from its original factory configuration. Changing your cams, limbs, or other components, including the use of aftermarket strings and cables, from your Hoyt bow's original equipped and configured assembly could cause your bow to break and could cause serious injury or death.

⚠️WARNING: Never draw or shoot a bow with frayed, worn, or damaged string or cables as they could break. Frayed, worn, or damaged bowstrings or cables should be immediately replaced by Hoyt or a Genuine Hoyt Retailer before the bow is used. Only Genuine Hoyt or Fuse-branded strings and cables should be used on your Hoyt bow. Carefully inspect the string and cables each time before shooting your bow. Hoyt recommends that you replace the string and cables on your Hoyt bow after 2,000 shots or after two years, whichever comes first.

⚠️WARNING: Never draw or shoot your bow without all string accessories (peep sight, kiss button, nock points, D-Loop, string silencers, string weights, and speed weights) properly installed and secured to the string. Do not use brass or other metal clamp-on nocking point or string weight devices. Hoyt recommends that only a Genuine Hoyt Retailer install all string accessories. (see page 6 for definition of Hoyt Bow Safe Operating Parameters).

⚠️WARNING: Never expose your string or cables to sharp objects such as knives or broadheads, or direct heat sources such as open flame or extremely hot objects as they could easily cut or cause the string and/or cables to break.

⚠️WARNING: Never draw a bow with mismatched or missing cam modules, module screws and/or set screws. Never draw a bow with a missing or incorrectly installed draw stop peg. Never remove the cam control cable peg. Be sure to thoroughly check these areas of the cam with an allen wrench to ensure they are fully tightened and that modules are not mismatched.

⚠️WARNING: While servicing Hoyt compound bows, it may be necessary to remove and reinstall e-clips on the ends of the axles. It is critical that the e-clips are installed correctly. If e-clips are not installed correctly, it is likely that one or more of the limbs will work their way off the end of the axle, causing the bow come apart and may result in injury to user or bystanders (see page 12 for installation instructions).

⚠️WARNING: Do not draw or shoot bow without the cable guard, cable slide and/or rollers properly installed, adjusted and tightened.

⚠️WARNING: Only use genuine Hoyt manufactured replacement parts, including replacement strings and cables. Only Hoyt or a Genuine Hoyt Retailer should perform replacement of damaged parts. Hoyt recommends that all maintenance or service that requires the use of a bow press only be performed by a Genuine Hoyt Retailer. The use of an improper style bow press on your Hoyt bow or the incorrect use of any bow press on your bow may result in severe damage to the bow. Failure to heed this warning could result in death or serious personal injury or death to yourself or bystanders (see page 9 for definition of an appropriate style press for Hoyt bows).

⚠️WARNING: Never expose your Hoyt carbon bow to any solvents or lubricants as the structure could become weakened.

⚠️WARNING: Never expose your carbon bow to direct impact. If impact occurs, return your bow to Hoyt or take your bow to a Genuine Hoyt Retailer for inspection and required repair.

⚠️WARNING: Never expose your bow to extreme heat or prolonged moisture. Damage can occur to your bow from heat exposure, prolonged exposure to moisture, and improper storage.

⚠️WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

⚠️WARNING: When handling and using a bow, including all stages of the bow being drawn to full draw, the bowstring being released, or the bow being let down, the archer and all bystanders must keep all body parts outside of the path of the bowstring and away from all moving parts.

⚠️WARNING: It is critical that your bow is set up and functioning within the bow's required safe operating parameters prior to use. Hoyt recommends that only a Genuine Hoyt Retailer setup and inspect your archery equipment to ensure that it is

set up within the bow's safe operating parameters. After your bow is set up within the bow's required safe operating parameters, the bow should be tuned for improved accuracy based on your shooting style and form, the arrow type and size used, and all other accessories used. See page 7 for tips and basic tuning procedures.

⚠️WARNING: Never use aftermarket strings or cables on your bow. Aftermarket strings and cables may not be suitable for replacement on your Hoyt bow. Hoyt cannot guarantee that the materials or the manufacturing methods used by aftermarket string and cable manufacturers will be suitable for use on your Hoyt bow. Failure to heed this warning could result in serious injury or death to yourself or bystanders. Only Genuine Hoyt or Fuse-branded strings and cables should be used on a Hoyt bow.

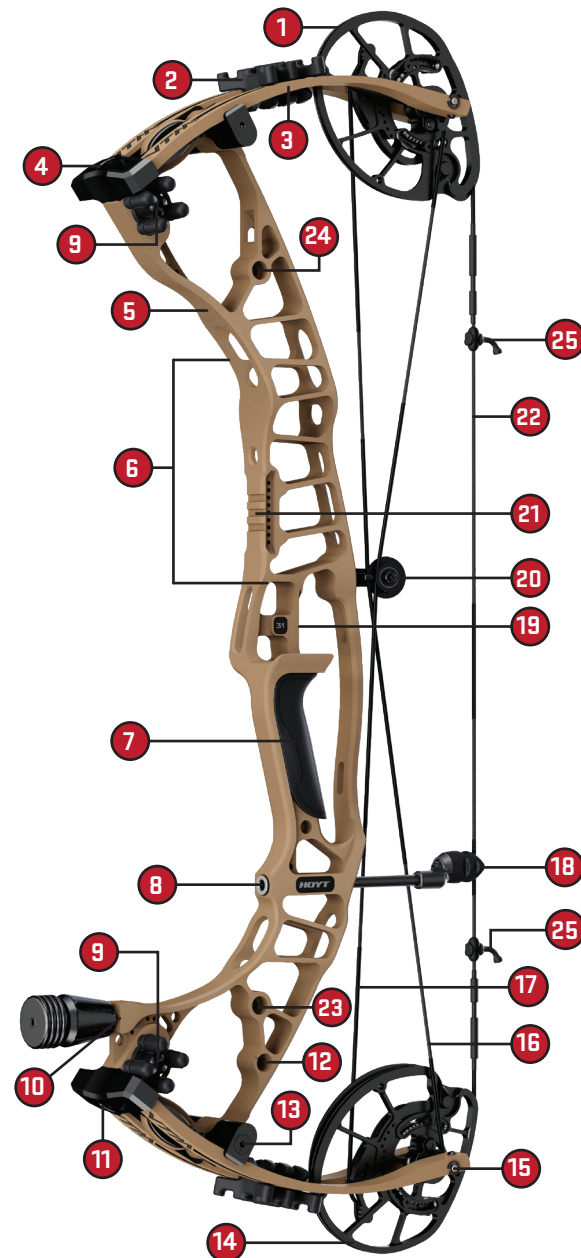
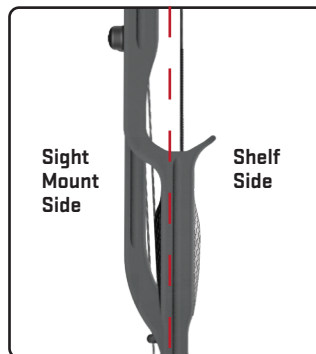
⚠️WARNING: Never move, remove, or add additional string weights to your Hoyt bow's string or cables. Strings weights are specifically engineered for weight and location to ensure correct operation of your bow. Alterations to string and cable speed weights could cause your bow to break or malfunction and could cause serious injury or death.

⚠️WARNING: It is critical that your bow is set up and functioning within the bow's required safe operating parameters prior to use. Hoyt recommends that only a Genuine Hoyt Retailer setup and inspect your archery equipment to ensure that it is set up within the bow's safe operating parameters. After your bow is set up within the bow's required safe operating parameters, the bow should be tuned for improved accuracy based on your shooting style and form, the arrow type and size used, and all other accessories used (see page 7 for tips and basic tuning procedures).



COMPOUND BOW (W/ HBX PRO CAM SYSTEM) TERMINOLOGY

- | | |
|--------------------------------|--------------------------|
| 1 Top Cam | 18 Stealth Shot |
| 2 LimbShox | 19 Integrate™ Rest Mount |
| 3 Limbs | 20 Roller Guard |
| 4 Limb Pocket | 21 Picatinny Sight Mount |
| 5 Riser | 22 Shooting String |
| 6 Sight Window | 23 Bottom Quiver Mount |
| 7 Grip | 24 Top Quiver Mount |
| 8 Stabilizer Bushing | 25 Holeshot V2 |
| 9 Shock Pod | |
| 10 Lower Stabilizer Bushing | |
| 11 Limb Weight Adjustment Bolt | |
| 12 Rear/Side Stabilizer Mount | |
| 13 Rockers | |
| 14 Bottom Cam | |
| 15 Axle | |
| 16 Control Cable | |
| 17 Control Cable | |



REQUIRED SAFE OPERATING PARAMETERS

CAM SETTINGS

Both the top and bottom cams must be of the same cam type and size. All Hoyt compound bows use a cam system that can be adjusted to change the bow's draw length. If your cams have an adjustable module system for draw length adjustments, all screws or other fasteners used to attach the modules must be tight and securely in place. For cams with replaceable draw length modules, both the top and bottom modules must be a matching set and the cable draw stop peg must be in the correct position that matches with the module setting (see **photo A**). For cams that have a rotating type module for draw length adjustment, both the top and bottom cam modules must be a matched set and rotated and set in the same position. For cams with draw stop pegs, the draw stop pegs need to match your module positions.

For more info on specific types of cams, settings, adjustments, etc, see pages 10 and 11.

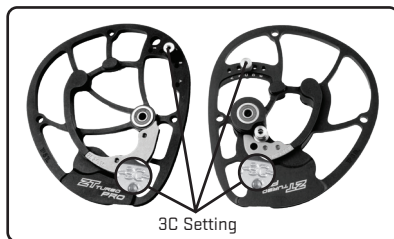


Photo A

LIMB BOLT DRAW WEIGHT ADJUSTMENT

Note: See page 7 for more detailed information regarding draw weight adjustment for your specific bow model.

All Hoyt compound bows have an adjustable limb system that allows the bow's peak draw weight to be adjusted within the specific bow's available range. Your bow's peak draw weight can be adjusted within the bow's range by turning the bow's top and bottom limb weight adjustment bolts equally (see **photo B**). Do not let out or loosen your limb bolts more than 8 turns as doing so may cause limbs to pop out during adjustment or while shooting, causing serious injury to you or a bystander. Always ensure that both your top and bottom limb weight adjustment bolts are adjusted and set at equal positions.



Photo B

Note: Review Stealthshot String Suppressor adjustment instructions after making a limb bolt adjustment (for more information on proper draw weight adjustment, see page 7).

ATTACHED BOW ACCESSORIES

Your Hoyt bow is equipped with various accessory mounting locations to allow accessories such as sights, quivers, arrow rests, and stabilizers to be attached to your bow. When attaching an accessory to your bow, follow all accessory mounting and use instructions provided by the accessory manufacturer. Ensure that all accessories are specifically right handed or left handed to match your bow where applicable and that all mounting hardware is securely tightened. Ensure that all attached accessories are clear of string and arrow flight path when the bow is shot.

ARROW REST SETTING

There are many different arrow rest designs and styles. Ensure the arrow rest is right handed or left handed based on your bow. On all Hoyt bows, arrow rests should be positioned on your bow so that your arrow fletchings completely clear the bow riser when the bow is shot. For all Hoyt bows, the required safe operating position of the arrow rest when setup within the safe operating parameters is with the center of the arrow between 5/8" and 1" from the bow's riser at the rest mounting location (see **photo C**). Always follow and use the specific arrow rest manufacturer's instructions for correctly setting up the arrow rest for proper function and tuning.



Photo C

D-LOOPS AND NOCKING POINTS

All bows require the use of a D-Loop or a nocking point device to properly locate the arrow onto the bow string in relationship to the arrow rest. For all Hoyt bows, the required safe operating position of the D-Loop or the nocking point device is when the arrow is attached to the bow string and resting on the arrow rest, the arrow will be at a right angle to the bow string plus or minus 3/16" (see **photo D**). Never use a brass or other metal clamp-on nocking point device with your Hoyt bow. Only use a high quality archery serving



Photo D

material for installing a “tied-on” nocking point. Only use a high quality archery D-Loop material for installing a D-Loop (see **photo E** for example of tied in nocking point and D-Loop). Ensure that the “D-Loop” or “tied-on” nocking point is securely attached to the bow string and cannot move on the string or come off of the string during shooting.

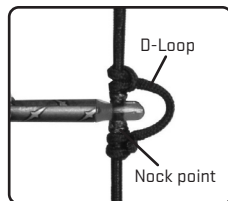


Photo E

OTHER STRING ACCESSORIES

Other string accessories such as peep sights, string silencers, kissers buttons or any other devices attached to the bow string or cables of your bow must be installed in such a way that they cannot move or come off of the bow string or cables during shooting. Hoyt recommends that only a Genuine Hoyt Retailer install and set-up any string accessories on your Hoyt bow.

ACCESSORY SELECTION

Hoyt Archery manufactures a broad selection of archery gear and accessories. Your Genuine Hoyt Retailer can help you choose, install, and tune the proper gear and accessories for your style of shooting. Do not modify your bow to accommodate an accessory that is not meant for your bow.

COMPOUND BOW SETUP, TUNING, AND MAINTENANCE

DRAW LENGTH

Draw length is determined by many variables. Your Genuine Hoyt Retailer is trained in properly fitting the bow to your size and style of shooting. Hoyt offers two basic types of adjustable cams to fit archers needs; rotating inner-cam module cams and exchangeable module cams. Draw length is measured in inches using the ATA (Archery Trade Association) standard method. Measure from the deepest part of the grip or to the center of the Berger Button (rest mounting hole) plus 1 3/4". See pages 10 and 11 for detailed instructions on adjusting your bow's draw length.

DRAW WEIGHT

Weight adjustments can easily be made by turning the weight adjustment bolt

clockwise to increase weight or counter clock-wise to decrease weight. To ensure your tiller stays equal always turn the top and bottom adjustment bolts in equal amounts. Do not let out or loosen your limb bolts more than 8 turns as doing so may cause limbs to pop out during adjustment or while shooting, causing serious injury to you or a bystander.

Carbon RX Series, VTM Series, Eclipse and Highline bows are capable of being reduced 10 pounds lower than the peak weight, which is achieved by backing out the limb bolts 4 or 5 turns. For example, a VTM with a 60 lb. max weight can be adjusted to as low as 50 lbs when the limb bolts are loosened approximately 5 turns. For optimal performance, we do not recommend shooting these models of bows when limb bolts are loosened more than 5 turns.

Torrex XT and Torrex bows are capable of being reduced 10-15 pounds lower than the peak weight by loosening the limb bolts up to 8 turns. For example, a Torrex with a 60 lb. max weight can be adjusted to as low as 45-50 lbs when the limb bolts are loosened 8 turns.

Kobalt has a wide draw weight range that can be adjusted by loosening the limb bolts up to 8 turns.

Note: All Hoyt Bows adjusted to their peak weight may draw up to four pounds heavier than the labeled max weight. Hoyt bows perform best when the limb bolt is not backed out more than 4 turns.

CENTERSHOT ALIGNMENT

Centershot is the alignment of the arrow to the power-path of the string. The measurement from the Berger Button hole to the center of the arrow shaft should be between 1" and 5/8" for an acceptable starting point.

This is accomplished by adjusting the arrow rest left or right. This is only a starting point, fine tuning adjustments may be needed to the centershot (see **photo F**).

Hoyt bows equipped with the HBX PRO

Cam Systems are designed with tuning capability using cam spacing adjustment. Please see <https://hoyt.com/support> for more information.

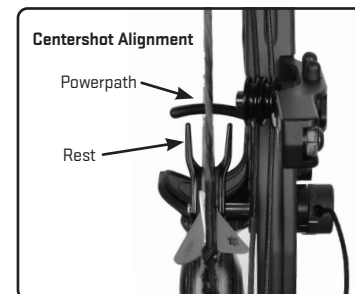


Photo F

NOCK POINT LOCATION

Your setup and style of shooting (arrow type, fingers or release aid, arrow rest, etc.) will determine the type and location of the nocking point. A good starting point is to adjust the nock point so the arrow and string make a 90-degree angle. This is only a starting point. Fine tuning adjustments to the nocking point may be needed. Hoyt does not recommend the use of brass or other metal clamp-on nocking point devices. Only a qualified archery pro shop should install string components.

FINE TUNING

Bow tuning is very individual and there are many factors to consider such as accessory selection, arrow selection, shooting form, hand pressure, face-to-string contact, etc. Therefore, your Genuine Hoyt Retailer is the best resource for fine tuning your bow. There are many effective methods for tuning your whole set-up. A Genuine Hoyt Retailer will be able to help you from start to finish with the entire tuning process.

TUNING FOR BROADHEADS

Most bowhunters discover that they must make slight tuning or sight adjustments when switching from practice points to broadheads (even at the same weight). Broadheads create a dramatic aerodynamic change in arrow flight. For this reason, slight adjustments may need to be made in nocking point height, rest position or bow weight to achieve desired broadhead flight. Always test shoot broadheads before hunting to ensure proper sight settings. Even expandable broadheads may require different sight settings than field points.

BOW MAINTENANCE

Your bow is a mechanical device and as such, is subject to wear and need of periodic inspection, adjustment and service. Hoyt recommends that you take your bow to a Genuine Hoyt Retailer at least once a year for a professional maintenance, cleaning and inspection. Areas to be inspected are axles, spacers, e-clips, strings, cables, limbs, cams, pockets, pocket rockers and slides, and riser. **Note:** It is normal for grease to be present on the pocket and rocker area of the bow.

STRINGS AND CABLES

Apply a light coat of bowstring wax to your bow's cables and string on a regular basis. Hoyt suggests once every two weeks during peak use. Use a high quality bowstring wax available at your local Genuine Hoyt Retailer. This will keep your bow's strings and cables in good condition. To ensure best results, replace your string and cables when wear is evident or every two years under normal use conditions. Insist that FUSE Custom Strings and Cables be used on your bow. All

Hoyt bow models come equipped with the FUSE Custom String System. Always replace your strings with FUSE brand strings. Beware of lesser quality strings and cables, as they may alter the performance of your bow or cause damage to it, possibly voiding the warranty. Never expose your string and cables to extended periods of extreme heat or prolonged moisture. Only a Genuine Hoyt Retailer should install string components. A bow should not be drawn or shot without the string components properly installed and secured. (For example: Peep sight, kissers button, nock point, D-loop, string silencers, etc.) Improper installations of string components are a potential safety hazard. Hoyt does not recommend the use of brass or other metal clamp-on nocking point devices.

LIMBSHOX AND HOLESHOT STRING SILENCERS

Some Hoyt bows come standard with limb dampers and/or string silencers to decrease vibration and noise. Inspect them periodically and replace when wear is evident. These dampers and silencers are not covered under warranty. **Note:** Always remove LimbShox before putting the bow in a bow press.

STEALTHSHOT™ STRING SUPPRESSOR

StealthShot is a highly effective noise and vibration dampening system. For optimum performance, make sure the StealthShot's rubber damper is just touching the string at brace height (no pressure). By loosening the screw on the damper, you can rotate it so the string lies in the center. When adjusting poundage, make sure to check and adjust the stealshot as needed.

BOW GRIPS

Hoyt uses various methods for attaching grips. One method is with a screw(s) and the other method is with adhesive. Both types of grips may be removed for personal preference or to be replaced with a custom grip. If grip is attached with adhesive, take care to not damage bow riser or paint when removing. See page 12 for instructions on removing adhesive grips. See Authorized Hoyt Dealer for details.

PAINT AND FINISH

The paint and finish on your bow requires very little maintenance. A few simple actions can help keep your bow looking new. Keep it clean by removing mud, dust and other contaminants from the finish by using a damp cloth. After use during wet conditions, towel-dry your bow to prevent water damage. (Do not use a heat

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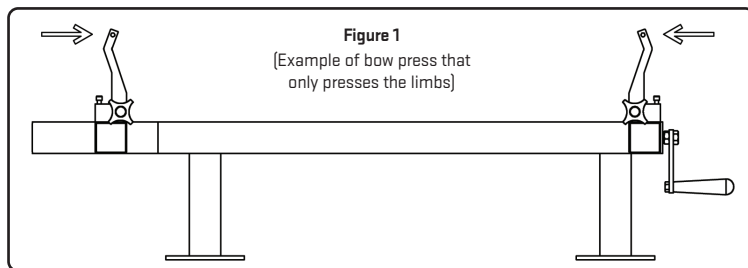


source to dry your bow.) Do not use chemicals, solvents or products such as bug repellents that may harm your bow's finish. Any damage to the paint and finish caused by, but not limited to, chemicals, solvents, scent sprays, or other products will not be covered under warranty. Warranty coverage of paint and finish is limited to manufacturing defects only.

USING A BOW PRESS

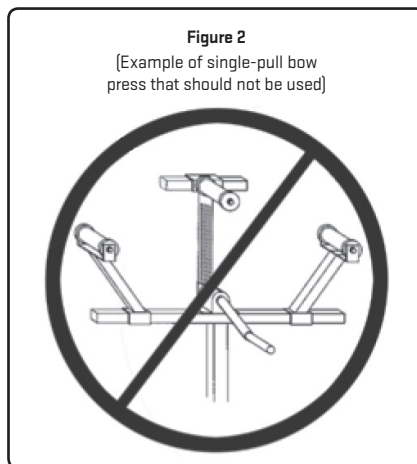
Never allow your bow to be put into a bow press unless it is done by a knowledgeable bow technician. Hoyt recommends that a Genuine Hoyt Retailer do all the necessary adjustments requiring the use of a bow press.

Damage to your bow due to the improper use of a bow press, or any tool, will void your bow's warranty. Only use a bow press that captures/contacts the bow at the limb tips (nearest the cams), compresses the bow in a straight, inward motion (see **Fig. 1** below), and allows for proper cam and component clearances. Never apply force to the riser as this could cause severe damage to the bow (see **Fig. 2** above).



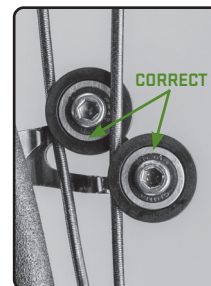
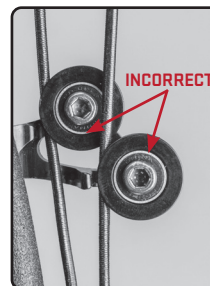
HOYT ROLLER CABLE GUARD SYSTEMS

Hoyt Roller Guard Systems are factory installed and requires no additional installation. The roller wheels feature sealed bearings that require no lubrication. If wax or dirt accumulate on the roller wheels, simply clean the wheels with a soft cloth.



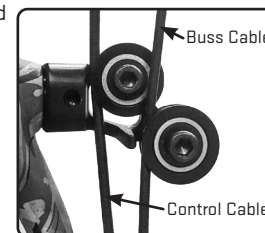
Note: In order to remove both the split yoke buss cable and control cable from Hoyt Roller Guards, the strings and cables must first be relaxed with the proper use of a bow press (see Bow Press section). Once the cables are relaxed, the roller wheels and spacers can be removed by loosening and removing the shoulder bolt with a 5/32" Allen key, allowing the cables to be free.

When reassembling the unit, the roller wheels and spacers must be installed correctly. The larger side, or flanged side, of the bearing should face away from the bow's shelf (see images below). The HBX PRO Roller Mount Assembly is designed to allow for installation and removal of the cables without disassembly.



CABLE ROUTING

Proper Cable Routing: For Cam & 1/2® equipped bows, the split yoke buss cable will route in the wheel track closest to the arrow and the control cable routes in the wheel track closest to the bow's shelf. The cables are designed to cross at the roller wheels, but never touch one another. For bows with HBX PRO cams, the cable that starts at the top cam on the shelf side should be installed on the smaller roller wheel. The other cable should be installed on the larger roller wheel. The cables will cross just below the rollers. For both cam types, install the cables into the proper wheel tracks before threading and tightening the screw to 15 in-lbs. Do not over tighten.



CABLE GUARD INSTALLATION

Some Hoyt bows are designed with a standard built-in cable guard bar attachment. To install the cable guard bar, simply slide the bar through the cable guard mounting hole in the back of your riser, making sure the bar is either pushed completely through and flush with the front of the riser or pushed to the bottom of the hole on

those model bows (Eclipse, Torrex) that do not have a through-hole cable guard system. After the bar has been inserted, fasten with the set screws provided (see **photo G**) to ensure the cable guard bar does not slide out. Be careful not to over-tighten as it is possible to damage the cable guard bar. The use of Loctite® is recommended when re-inserting screws.

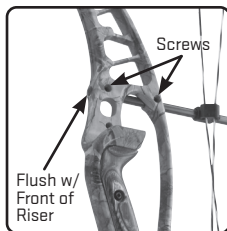


Photo G

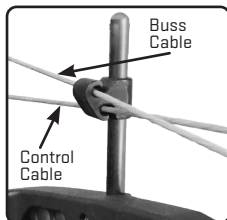


Photo H

CABLE SLIDE INSTALLATION

To prevent your bow's cables from rubbing against each other, Hoyt uses a specially designed cable slide that has offset cableslots. To correctly install the slide on most Hoyt bows, first place the glide on the cable guard bar (see **photo H**. Note that the photo is taken from the bottom of the bow looking toward the top). Next, push the control cable into the shorter front slot. Then, push the buss cable into the longer rear slot.

⚠WARNING: Do not draw or shoot bow without the cable guard, cable slide and/or rollers properly installed, adjusted and tightened.

DRAW LENGTH ADJUSTMENT FOR HBX PRO CAMS

The HBX PRO Cam Series are adjustable in 1/2 inch increments. To adjust draw length, follow the instructions below for each cam.

HBX PRO Cam Series: The top and bottom cams have modules which must be adjusted to the same position when adjusting the draw length. To adjust draw length on both cams, loosen the module screws 2.5 turns using the appropriate Torx wrench (T15 or T10 for most modules). See **Fig. B-1**. Pull the modules away from the cam surface to disengage the peg from the hole. With the locating pegs disengaged, the modules are free to slide to a different draw length position. Rotate both top and bottom modules to the desired position, verify that desired module positions match by using the module indicator windows (see **Fig. B-1**), and then push them back to the cam, making certain that the locating peg is seated in the corresponding hole. Tighten

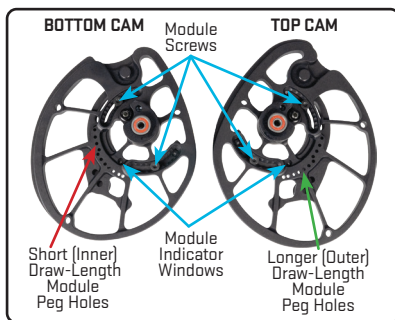


Fig. B-1

the module screws to secure the modules in place. (Do not over tighten. Factory Setting = 15 in. lbs.) The HBX PRO Cam Series comes with two module options to cover the full draw length range. The #3 module is for the longer draw length range of the cam and utilizes the outer module peg holes. The #2 module is for the shorter draw length range of the cam and utilizes the inner module peg holes (see **Fig. B-1**).

HBX PRO Cam Adjustable Let-off

Module: The HBX PRO Cam comes with an adjustable let-off module foot that allows the archer to customize their desired let-off to either 85 or 80%. To make this adjustment, you will use a T15 Torx wrench to loosen the screw (see **Fig. B-2**) and adjust the HBX PRO mod foot out to the longer position for 80% and in to the shorter position for 85%. Note: all HBX PRO Cam Series model bows are shipped in the 85% let-off position.

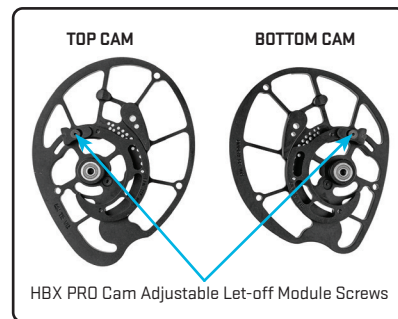


Fig. B-2

DRAW LENGTH ADJUSTMENT FOR TORREX AND TORREX XT CAMS

Both Top and Bottom Cam: To adjust the draw length of Hoyt's Torrex and Torrex XT cams with a rotating inner-cam module with draw stop pegs, use the appropriate Torx wrench (T15 or T10 for most modules) to loosen both module screws 1.5 – 2 full turns (see **Fig. T-1**). There is no need to completely remove either of the module screws during adjustment, only loosen them.

Once the screws are loosened, pull the module away from the cam surface to disengage the alignment peg and rotate the module to the desired position. Make sure the alignment peg is seated and tighten both modules screws (do not over tighten). It is important to make sure both the top and bottom modules are in the same position. For example, if the top module is in the C position, the bottom module must also be in the C position. Use module position indicator window to verify module position (see **Fig. T-2**). Factory setting = 15 in. lbs. Note: The shortest draw length position is the A position.

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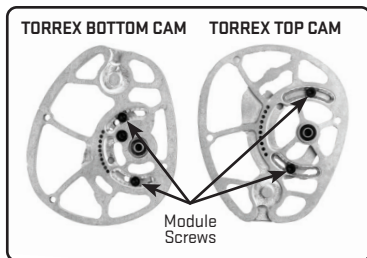


Fig. T-1

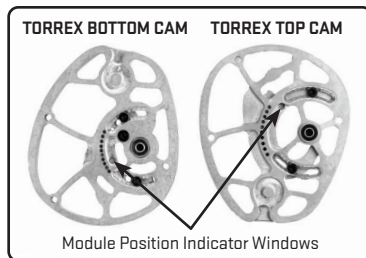


Fig. T-2

DRAW LENGTH ADJUSTMENT FOR KOBALT CAMS

To adjust the draw length of Hoyt's cams with a rotating inner-cam module like the one shown in Fig. E, use the appropriate wrench (some cams use an Allen key and others use a Torx wrench) to loosen the fastening screw and remove the draw length screw (see Fig. E). Rotating the inner-cam module in the (+) direction will lengthen the draw. Rotating the inner-cam module in the (-) direction will shorten the draw. Once the inner-cam module is in the desired location, reinstall and tighten the draw length screw first and then the fastening screw.

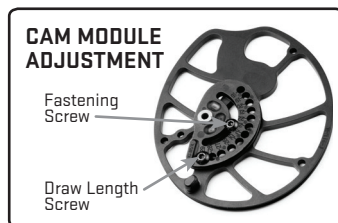


Fig. E

Note: Be sure to make the same draw length adjustments to both top and bottom cams, ensuring both modules are in the same position.

⚠WARNING: Never draw a bow with mismatched or missing cam modules, module screws and/or set screws. Never remove the cam control cable peg as serious injury and bow damage could occur.

ECLIPSE CAM EXCHANGEABLE MODULE ADJUSTMENT

Follow the directions below to adjust the draw length on your Eclipse model bow with an exchangeable module system. No bow press is needed to make the following adjustments:

Once you have determined the desired draw length, simply loosen and remove the module screws with a standard 7/64 Allen key. There are 3 screws on the top cam and 2 screws on the bottom cam that hold the modules in position (see Fig. F). Once the screws have been loosened and removed, simply remove

the modules from the cams. Then replace the modules with the ones that correspond to the desired draw length (DO NOT overtighten module screws). It may be necessary to use blue Loctite on the module screws to keep them secure. After the desired draw modules are installed, the draw-stop peg (see Fig. F) also needs to be adjusted. Remove the draw-stop peg with a 5/64 Allen key and reinstall it in the corresponding threaded hole that corresponds with the letter on the cam modules. For example, if you installed letter B modules, then you would need your draw stop installed in the B location. Draw length modules of various sizes may be purchased at your local Genuine Hoyt Retailer.

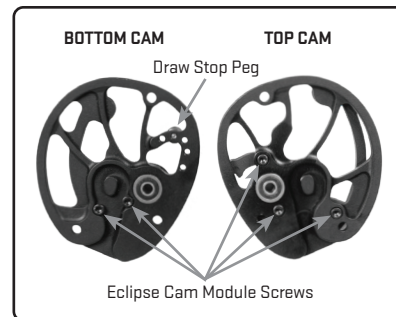


Fig. F

ADJUSTING YOUR BOW TO FACTORY SETTINGS

Hoyt measures bowstrings using the ATA (Archery Trade Association) standard method. To verify that the factory specifications (cam orientation, draw length, draw weight, brace height, axle-to-axle, etc.) are correct, measure the strings and cables at 100 lbs tension on 1/4" pins. Using a proper bowpress, remove the string and cables (this should only be done by a Genuine Hoyt Retailer). Measure the string and cables and add or remove twists to obtain the proper length. (Note for bows equipped with a buss cable: To measure buss cable length, remove all twists from both sides of the yoke. Once measured, add 6 twists to the sight mount side yoke and add 2 twists to the shelf side yoke. Be sure to add twists in the same directions as the main cable.) Then re-install the correct length string and cables. See Cam Synchronizing below for any synchronization adjustments once strings and cables have been re-installed.

HBX PRO SPACER TUNING

Spacer tuning is helpful when trying to eliminate a left or right tear during paper tuning. (It is similar to "yoke tuning" on bows with a yoke system.) For instructions (including a video) on spacer tuning your HBX PRO cams, go to <https://hoyt.com/frequently-asked-questions>

CAM SYNCHRONIZING

Hoyt Cam Systems require very little maintenance. Once the shooting string and cables are set to the correct lengths, cam synchronizing should require little or no maintenance. Follow instructions below for Hoyt's different cam types.

HBX PRO Cam Systems: In the event your cams need to be synchronized, follow these instructions. If your bottom cam cable-stop touches before the top cam cable-stop when coming to full draw, remove the control cable from the peg on the module side of the bottom cam and add a twist. Repeat until cam synchronizing is complete. If your top cam cable-stop touches before your bottom cam cable-stop when coming to full draw, remove the control cable from the module side of the top cam and add a twist. Repeat until cam synchronizing is complete. Refer to photos I and J on the following page.

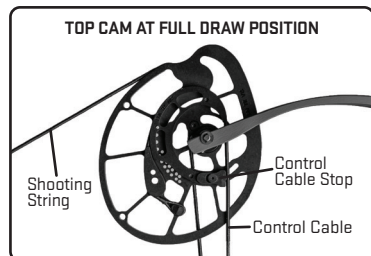


Photo I

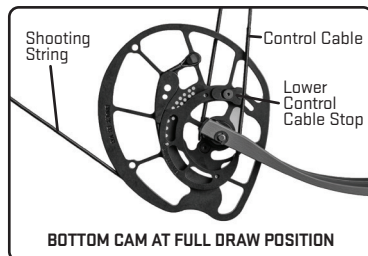


Photo J

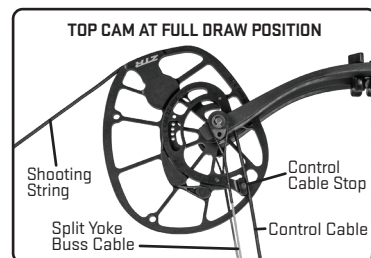


Photo K

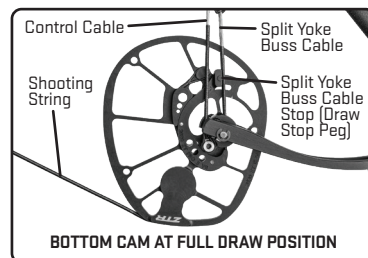


Photo L

Note: Hoyt measures bowstrings using the ATA (Archery Trade Association) standard method.

CAM LET-OFF ADJUSTMENT

Changing the let-off should be done by Hoyt or a Genuine Hoyt Retailer. To change the let-off on the HBX PRO cam from 85% to 80%, remove the module foot screw and move the foot to the outward location and replace the screw. Repeat on top and bottom cams. (Note: Blue Loctite® may be used to on the module screws when replacing modules to keep them from coming loose during use.)

⚠️WARNING: Never draw back a bow with mismatched or missing cam modules, set screws, and draw stop pegs.

CAM LUBRICATION

Bows equipped with the Cam 6 1/2® and HBX PRO Cam Systems feature sealed ball bearings, which do not require lubrication. For cams with conventional bearings or bushings, such as those found on Kobalt, a light spot lubrication of the axles where they pass through the cam should be done on a regular basis (1,500 - 2,000 shots). In adverse hunting conditions where dirt, dust or moisture is encountered, lubrication may be done on a daily basis. Be sure to clean off any excess lubricant as it will attract dust and dirt and could possibly damage painted surfaces. Hoyt recommends you use a silicone or Teflon based lubrication. **It is NOT recommended that you use "Penetrating Oils" such as WD-40, EZ-#7, Fast Break, etc. as these products can damage your bow.**

AXLE E-CLIP INSTALLATION CRITERIA

⚠️WARNING: While servicing Hoyt compound bows, it may be necessary to remove and reinstall e-clips on the ends of the axles. It is critical that the e-clips are installed correctly. If e-clips are not installed correctly, it is likely that one or more of the limbs will work their way off the end of the axle, causing the bow come apart and may result in injury to user or bystanders.

NOT CORRECTLY INSTALLED
E-Clip Not Fully Engaged With Axle



CORRECTLY INSTALLED
E-Clip Fully Engaged With Axle



NOTE WHEN E-CLIP IS FULLY SEATED - YOU SHOULD FEEL AND HEAR IT CLICK INTO PLACE.

BOW GRIPS

Most of Hoyt's hunting bows come equipped with molded grips that are held in place using a commercial grade double-sided tape. To remove grip, use the following steps:

1. Using a hair dryer, slowly heat up the back of the grip until it is warm to the touch.
2. Once the grip has warmed, you can pry up on the base of the grip (Do not use metal items such as a screw driver as it is possible to damage the riser).
3. This should release the bond between the tape and the grip.



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CARBON INFORMATION AND WARRANTY

LOCATING YOUR SERIAL NUMBER

The six or seven-digit serial number on Hoyt compound bows is located on or near the arrow rest mount. If you have already attached a rest to your riser, you may have to remove it to see the serial number. The serial number on Hoyt Carbon bows is found between the sight mounting holes. The serial number on the Torrex and Torrex XT will be found under the grip. Serial numbers are also printed on the bow specification decal located on the limb on the underside of the limb pocket.

HOYT CARBON RISER SPECIAL PRECAUTIONS AND INFORMATION:

1) **⚠️WARNING:** Composite constructed components, such as Hoyt Carbon Risers, may show small surface separations in the paint and/or top surface layer of the construction. This is a typical composite condition which may become more visible as the bow is used over time. These small separations are considered normal and non-structural provided that they are under 1/8 inch in length and less than 1/32 inch wide at its widest location. These are typically not fractures or breaks in the carbon fibers themselves and do not represent a structural failure. For separations that are larger than 1/8 inch in length and/or wider than 1/32 inch wide, the bow should not be shot and should be returned to Hoyt or a Genuine Hoyt Retailer for inspection and testing. (See warranty information for instructions on returning product to Hoyt). If the bow is found to have a structural failure, the riser will be repaired or replaced under the normal conditions of Hoyt's Limited Lifetime Warranty. If the bow has no structural failure, the bow will be returned and can resume normal use.

2) **⚠️WARNING:** Extreme care should be taken to avoid impact damage to a Hoyt Carbon Riser. Hoyt Carbon Risers are designed to withstand high stress flexing and high stress loading that would be associated with normal use and function of the bow. However, in general, composite structures do not withstand high load impact such as being dropped from a tree, or by having some other object impact the structure. In the event that your bow does encounter a surface impact, you must carefully inspect the riser for damage. If impacted, inspect the area for visible broken fibers, multitude of separation cracks, cracking that appears to resemble a spider-web, dented surface, or a soft flexible surface at the impact point. If any of the above conditions are apparent or suspected, the bow should be considered damaged and should not be drawn or used any further. In the event that the bow was exposed to an impact and damage is evident as described above, you can return the bow to Hoyt for an evaluation. (See warranty information for instructions on returning product to Hoyt). If the riser is determined to be dam-

aged and not fit for use, Hoyt may offer a replacement of damaged components at the owner's expense. Damage, including impact damage, caused accidentally, whether from misuse of the product, or from use not associated with normal archery practices, is NOT covered under the Hoyt Limited Lifetime warranty.

3) Hoyt Carbon Risers, or any other component of any Hoyt bow, should not be modified in any way.

⚠️WARNING: Never mechanically alter or modify your bow as it will likely cause the bow to break. Drilling holes, cutting, filing, or sanding are examples of mechanically altering your bow.

Any modification to any bow or component will immediately void any and all warranty for the bow and/or component.

4) **⚠️WARNING:** Hoyt Carbon Risers are constructed by various aluminum components that are either attached by adhesive or by mechanical fasteners such as screws to the exterior of the riser. Any attempt to remove any of the aluminum factory attached components will damage the bow and could possibly cause harm or injury to the owner or bystanders and will immediately void any and all warranty for the bow and/or components. Do not attempt to remove or adjust the security screws attaching the stabilizer mount or the sight/arrow rest mounting insert.

5) **⚠️WARNING:** Care should be given to not expose Hoyt Carbon Riser equipped bows to any solvents, lubricants, or other substances that contain silicone as the structure could be weakened. A weakened riser has the potential to cause injury to or damage other components.

6) Care should be given to not expose Hoyt Carbon Riser equipped bows to extreme heat, flame, or other adverse conditions that could possibly damage the bow.

7) Composite constructed components, such as a Hoyt Carbon Riser bows may exhibit a creaking sound during the first few shots when the bow is new. This creaking sound could come and go for the first few 100 shots. This is normal for Composite structures and is not a structural failure.

If a Hoyt Carbon Riser bow has been stored for a prolonged period of time without being used (several weeks at a time), it may exhibit creaking sound again for

the first few shots. This is normal for composite structures and isn't a structural failure.

LIMITED LIFETIME WARRANTY

PLEASE READ THIS DOCUMENT CAREFULLY. IT CONTAINS VERY IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY APPLY TO YOU. Hoyt warrants to the **ORIGINAL OWNER** that the Hoyt compound bow riser, limbs, limb pockets and eccentrics will be free from defects in materials and workmanship for the lifetime of the product under the following terms and conditions:

- 1) Hoyt bows must be purchased from a Genuine Hoyt Retailer (no exceptions).**
- 2) The original owner must retain and provide an original and dated proof of purchase (sales receipt) from a Genuine Hoyt Retailer.** Hoyt bows purchased via mail order, through an unauthorized retailer, or over the Internet voids all warranty.
- 3) THE ORIGINAL OWNER MUST REGISTER THE BOW WITH HOYT WITHIN 30 DAYS OF PURCHASE.** To register your bow, visit www.hoyt.com/customer_service/ to complete the registration process electronically, or contact Hoyt at (801) 363-2990 to request a registration card.
- 4) All compound bows must have the original serial number factory-attached to the bow.** The serial number must remain legible. **THIS LIMITED LIFETIME WARRANTY IS NOT TRANSFERABLE.**

Exclusions from Warranty Coverage:

This Limited Lifetime Warranty covers normal use of the product, and Hoyt does not warrant and is not responsible for:

- 1.** The use of aftermarket products/accessories that alter Hoyt's specs or design.
- 2.** Damage to strings, cables, bearings, damping materials, finish (including paint, anodize, powder coat and film-dipped finishes) resulting from normal wear-and-tear.
- 3.** If bow shows sign of misuse, alteration, or mishandling, this warranty will be void.
- 4.** Use of arrows weighing less than 5 grains per pound of draw weight will void the warranty.
- 5.** Damage to 'other' accessories.
- 6.** Aftermarket replacement strings.
- 7.** Any modification to any bow or component.
- 8.** Bows returned to Hoyt without a Return Authorization number obtained by a Genuine Hoyt Retailer.

OBTAINING WARRANTY SERVICE

To obtain warranty service, you must return your bow to a Genuine Hoyt Retailer. The retailer can help to determine if Hoyt factory service is required or if the retailer can complete the repair.

Genuine Hoyt Retailers may provide additional services and apply additional charges for service work performed by the retailer. If the bow must be returned to the factory, **THE BOW OWNER IS RESPONSIBLE FOR THE FREIGHT CHARGES TO HOYT.** Hoyt, in turn, will pay for the same return freight of the repaired product.

Before any bow is returned to Hoyt, a Return Authorization (RA) number must be obtained through a Genuine Hoyt Retailer. Please note that Hoyt will not issue RAs to consumers. Bows returned to the factory without a Return Authorization number obtained from a Genuine Hoyt Retailer may be denied warranty service. If Hoyt determines, in its sole discretion, that a bow qualifies for warranty repair, Hoyt will make every effort to repair the bow. Repairs may be performed with original parts when available. Hoyt reserves the right to make part substitutions on warranty coverage for any reason. If original parts are not available, suitable replacement parts/components may be used. If the Hoyt bow is not repairable, but qualifies for warranty coverage, Hoyt will replace the bow with a bow of similar feature and product class in Hoyt's sole determination.

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, THAT EXTEND BEYOND THOSE WRITTEN HERE. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF HOYT OR ITS RETAILERS HAVE THE AUTHORITY TO BIND HOYT TO ANY AGREEMENT NOT HEREIN STATED.

LIMITATION OF LIABILITY

IN NO EVENT SHALL HOYT BE LIABLE UNDER ANY CIRCUMSTANCE TO YOU OR ANY OTHER PARTY FOR ANY SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PRODUCTS, EVEN IF THE COMPANY OR ANY OF THE COMPANY AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL HOYT OR ANY HOYT AFFILIATE BE LIABLE TO YOU OR ANY OTHER PARTY FOR LOSS, DAMAGE, OR INJURY OF ANY KIND BEYOND THE BOW ITSELF.

This warranty gives you specific legal rights. You may also have other rights which may vary in states or countries.

Thank you for taking the time to read and understand the contents of this manual to ensure proper care and safe use of your new Hoyt bow. Get Serious. Get Hoyt.

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HOYT COMPOUND BOW LIMITED LIFETIME WARRANTY

All Hoyt compound bows are guaranteed against manufacturing defects in materials or workmanship to the original owner on all risers, limbs, limb pockets, and eccentrics for the life of the product*.

*Visit www.hoyt.com/warranty for complete warranty details.
Bows purchased over the Internet or through mail order void all warranty.