



HOYT®
ARCHERY

COMPOUND BOW
OWNER'S MANUAL



CARBON
RX-4

REDWRX

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 over 85 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.

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.

TABLE OF CONTENTS/WARNINGS

Bow Owner's Personal Info	1
Important Safety Information	2
Compound Bow Terminology	5
Required Safe Operating Parameters	6
Bow Setup	6
Accessory Selection	7
Draw Length	7
Draw Weight	7
Centershot Alignment	7
Nock Point Location	7
Fine Tuning	8
Tuning for Broadheads	8
Bow Maintenance	8
Strings and Cables	8
LimbShox and String Silencers	8
StealthShot String Suppressor	8
Bow Grips	8
Paint and Finish	8
Bow Press Usage	9
Hoyt Roller Cable Guard Systems	9
Standard Cable Guard Installation	10
Standard Cable Slide Installation	10
ZTR, ZTR Turbo, & Hyper ZT Draw Length Adjustment	10
Torrex, Torrex XT, Klash, & Fireshot Draw Length Adjustment	11
Factory Settings	11
Cam Synchronization	11
Cam Let-Off Adjustment	12
Cam Lubrication	12
Yoke Anchor Pulleys	12
Axle E-Clip Installation Criteria	12
REDWRX Grip System & Grip Tuning	13
X-Act Grip	13
Locating Your Serial Number	13
Hoyt Carbon Riser Precautions and Information	14
Warranty	14

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 **ℹ️NOTICE**. 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. **ℹ️NOTICE** 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. **STANDARD BOW PRESSES CANNOT BE USED** and may result in bow failure and personal injury. Hoyt recommends that only Genuine Hoyt Retailers press your bow. See page 10 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 per-

formed 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 15 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.

COMPOUND BOW TERMINOLOGY

- 1** Top Cam
- 2** LimbShox
- 3** Limbs
- 4** Limb Pocket
- 5** Riser
- 6** Sight Window
- 7** Silent Shelf Pad
- 8** Grip
- 9** Stabilizer Bushing
- 10** Limb Weight Adjustment Bolt
- 11** Rockers
- 12** Bottom Cam
- 13** Axle
- 14** Control Cable
- 15** Stealth Shot
- 16** Roller Guard or Cable Guard and Cable Slide*
(*depends on model of bow)
- 17** Shooting String
- 18** Buss Cable-Top Yoke
- 19** Buss Cable-Main Body
- 20** Buss Cable-Lower Yoke
- 21** Cable Splitter



REQUIRED SAFE OPERATING PARAMETERS

⚠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.

CAM SETTINGS

Both the top and bottom cams must be of the same cam type and size. Most 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 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 more information on specific types of cams, settings, adjustments, etc., see page 10*

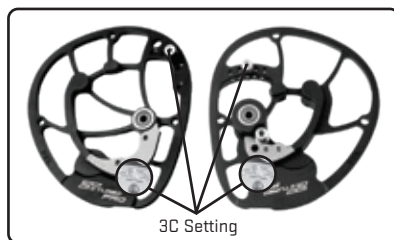


Photo A



Photo B

LIMB WEIGHT ADJUSTMENT BOLT SETTINGS

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**). Never turn your bow's limb weight adjustment bolts out more than 8 full turns as the bow will become disassembled. (Note: On Klash Series bows only, limb weight adjustment bolts can be loosened up to 10 turns.) Always ensure that both your top and bottom limb weight adjustment bolts are adjusted and set at equal positions. 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



Photo D

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 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.

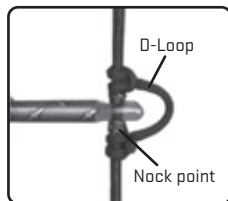


Photo E

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 ¾". 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 (10 turns on Klash Series bows) doing so may cause limbs to pop out during adjustment or while shooting, causing serious injury to you or a bystander. Hoyt bows are capable of being reduced 10-15 pounds lower than the peak weight. For example, a Hoyt bow with a 60 lb. max weight can be adjusted to as low as 45-50 lbs when the limb bolts are loosened 8 turns. Bows adjusted to their peak weight may draw up to four pounds heavier than the labeled max weight. As a side note, bows perform best when limb bolts are not loosened the full 8 turns.

Note: It is not necessary to loosen the dowel screws to adjust the weight on any Hoyt bow. It is not necessary to lower the draw weight for storage purposes.

Note: It is normal for grease to be present on the pocket and rocker area of the bow.

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**).

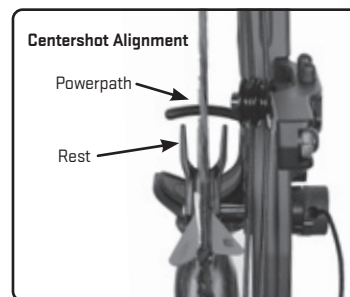


Photo F

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.

HOYT
ARCHERY

COMPOUND BOW SETUP, TUNING, & MAINTENANCE

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, kissier 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.



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 color grip. If grip is attached with adhesive, take care to not damage bow riser or paint when removing. See page 13 for instructions on removing adhesive grips. See Authorized Hoyt Dealer for details.

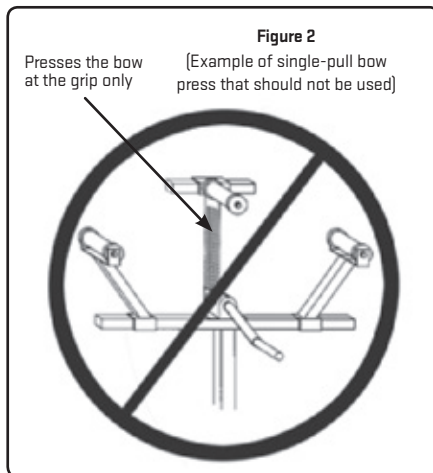
PAINT AND FINISH

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 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 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) and compresses the bow in a straight, inward motion (see figure 1 below). Never apply force to the riser as this could cause severe damage to the bow (see figure 2 at right).



HOYT ROLLER CABLE GUARD SYSTEMS

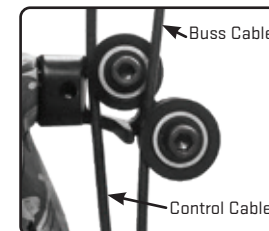
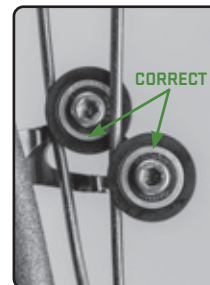
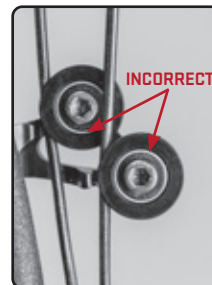
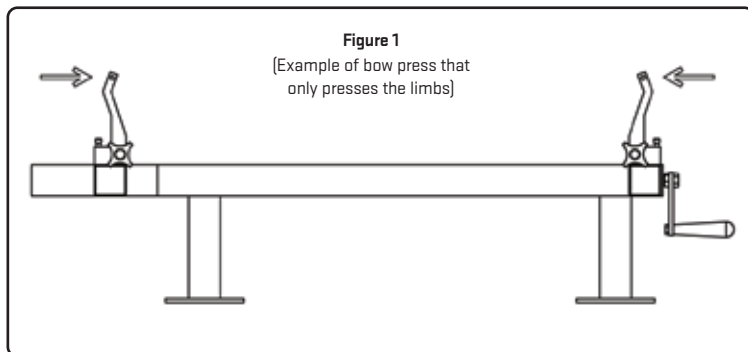
Hoyt Guard Systems are factory installed and requires no additional installation. The roller wheels feature sealed bearings that require no lubrication. If wax or dirt accumulate on the roller wheels, simply clean the wheels with a soft cloth.

Note: In order to remove both the split yoke buss cable and control cable from from Hoyt Roller Guards, the strings and cables must first be relaxed with the proper use of a bow press (see Bow Press section on this page). 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).

When properly installed, 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. Install the cables into the proper wheel tracks before threading and tightening the screw to 15 in-lbs. Do not over tighten (see image below).



COMPOUND BOW SETUP, TUNING, & MAINTENANCE

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 two mounting holes on the riser, making sure the bar is pushed completely through and flush with the end of the front mounting hole. After the bar has been inserted, fasten with the 1/4-20 x 1/2" set screws provided. (See photo H) The use of Loctite® is recommended when re-inserting screws.

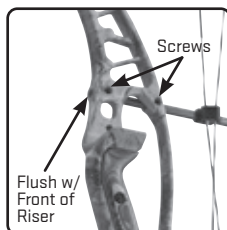


Photo H

CABLE SLIDE INSTALLATION

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

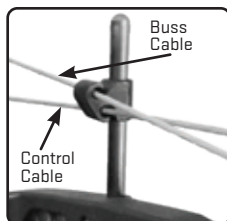


Photo I

⚠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 ZTR CAMS

The ZTR series of cams are adjustable in 1/2 inch increments with the A position being the shortest draw length and each letter thereafter being a half inch longer for a given cam. To adjust draw length, follow the instructions below for each cam.

Bottom Cam - ZTR Series: The bottom cams have modules on the both sides of the cam which must be adjusted in unison when adjusting the draw length. To adjust draw length on the bottom cam, loosen the module screws 2.5 turns using a T15 Torx wrench (see Figure ZT-1). Pull the thinner module away from the cam surface to remove the peg

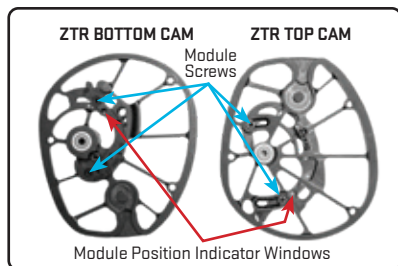


Fig. ZT-1

from the hole, leaving the thick module resting against the cam surface. With the locating peg disengaged, the modules are free to slide in unison to a different draw length position. Rotate the modules to the desired position, using the Module Position Indicator Window to verify desired module position and push them back together making certain that the locating peg is seated in the corresponding hole in the module. Tighten the module screws to secure the modules in place. (Do not over tighten. Factory Setting = 15 in. lbs.)

Top Cam - ZTR Series: To adjust the draw length on the top cam, loosen the module screws 2.5 turns with a T-15 Torx wrench (it is not necessary to completely remove the screws.) After the screws are loosened, simply lift the module pin out of the current hole and rotate the module to the desired position, using the Module Position Indicator Window to verify module position is correct (make sure it matches the position of the bottom cam) and that the locating peg is seated in the corresponding hole in the module. Once the module is in the correct position, tighten the module screws to secure the module in place (Do not over tighten. Factory setting is 15 in. lbs.).

ZT Turbo Pro Exchangeable Module Adjustment: Follow the directions below to adjust the draw length on a Hoyt bow equipped with an exchangeable module, including ZT Turbo Pro.

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. Once the screws have been loosened and removed, simply remove the modules from the cams. Then replace the modules with ones that correspond to the desired draw length. (Do not over-tighten 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 pegs also need to be adjusted. Remove the draw stop pegs with a 5/64 Allen key and reinstall them in the threaded holes that correspond with the letter on the cam modules. For example: If you installed letter B modules, then the draw stop pegs need to be installed in the B location. Draw length modules of various sizes may be purchased at your local Genuine Hoyt Retailer.

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 a T-15 Torx Wrench 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.

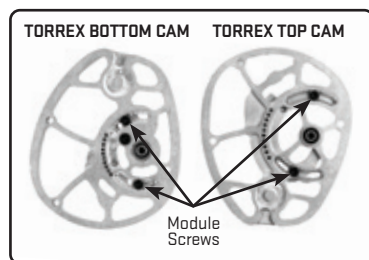


Fig. T-1

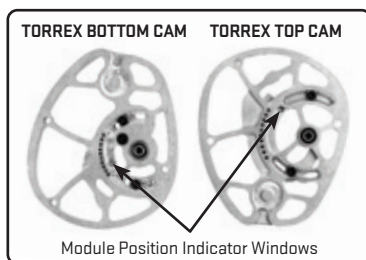


Fig. T-2

DRAW LENGTH ADJUSTMENT FOR KLASH AND VERSAFLEX (FIRESHOT) 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.

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

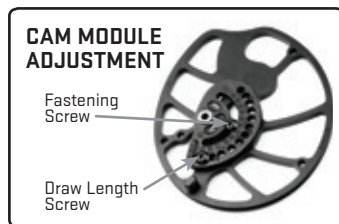


Fig. E

⚠️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.

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: To measure buss cable length, remove all twists from both sides of the yoke. Once measured, add 6 twists to the cable side yoke and add 2 twists to the string side yoke. Be sure to add twists in the same directions as the main cable.) Then re-install the correct length string and cables. Refer to the following paragraph for instructions on how to measure the split yoke buss cable on the ZTR Cam System. See Cam Synchronizing below for any synchronization adjustments once strings and cables have been re-installed.

MEASURING SPLIT YOKE BUSS CABLES

To check length of the new Split Yoke Buss Cable, measure the assembly of main buss cable, cable splitter and yoke. To adjust length add or subtract twists from the upper main buss cable yoke ONLY. Attempting to adjust length by twisting the main buss cable body or lower yoke can result in twisting and incorrect cable alignment of the lower yoke. See CAM SYNCHRONIZING below for any synchronization adjustments once strings and cables have been re-installed.

CAM SYNCHRONIZING

Hoyt Cam & 1/2 Performance Systems require very little maintenance. Once the shooting string, control cable and buss cable are set to the correct lengths, cam synchronizing should require little or no maintenance. Both top and bottom cams are slaved together via the control cable – forcing both cams to always move together, regardless of when the cables come into contact with the cable stops. There is a broad range where the cams can be synchronized. Hoyt Engineers and Hoyt Professional Shooters alike have found that varying the cam synchronization has little or no variation on downrange arrow impact. If you feel that the cam synchronizing or positioning is incorrect due to the shooting string, control cable or buss

COMPOUND BOW SETUP, TUNING, & MAINTENANCE

cable not being in specification, note the following instructions (see photos J and K on the following page):

Measure your strings and adjust them to the recommended factory length by adding or subtracting twists. Then reinstall the adjusted strings onto the bow. When drawing the bow back, if the control cable-stop located on the top cam touches

before the yoked buss cable-stop on the bottom cam, shorten the control cable by adding twists. When drawing the bow back, if the yoked buss cable stop on the bottom cam touches before the control cable stop on the top cam, lengthen the control cable by removing twists on ZTR cam systems and ZT Turbo Pro cam systems, or shorten the yoked buss cable by adding twists in non-ZTR cam systems only.

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

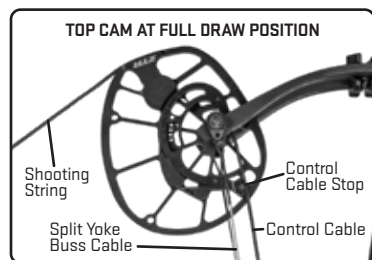


Photo J

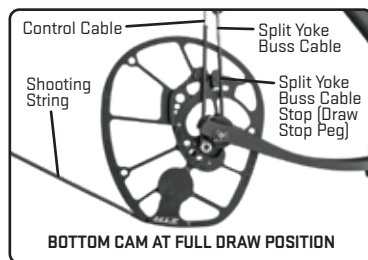


Photo K

ZTR CAM LET-OFF ADJUSTMENT

Changing the let-off should be done by Hoyt or a Genuine Hoyt Retailer. ZTR cams are available in 85% and 80% let-off. To change the let-off from 85% to 80%, remove the top and bottom 85% let-off modules and replace with 80% let-off modules. Be sure the module numbers correspond with the cam numbers. For example, a ZTR #3 cam would take a ZT-3 mod. Be sure to install matching modules on the top and bottom cams. For example, if you install a 80% #3C module on the top cam, you must also install a 80% #3C module on the bottom cam and the draw stop pegs must be in the corresponding C position. (Note: Blue Loctite® may be used to on the module screws when replacing modules to keep them from coming loose during use.)

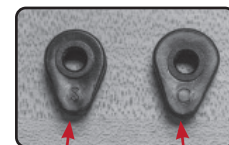
⚠WARNING: Never draw back a bow with mismatched or missing cam modules, set screws, and draw stop pegs.

CAM LUBRICATION

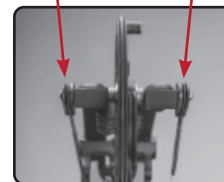
Bows equipped with the Cam & 1/2 Performance System feature sealed ball bearings, which do not require lubrication. For conventional bearings or bushings, such as those found on non Cam & 1/2 (dual cam) equipped bows, a light spot lubrication of the axles where they pass through the cam should be done 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.**

YOKE ANCHOR PULLEYS

Hoyt’s new anchor pulleys have been designed to equalize the load of both yokes by using different yokes for each side of the bow. The anchor pulley marked with an “S” is to be used on the “string side” of the bow and the anchor pulley marked with a “C” is to be used on the “cable side” of the bow. New anchor pulleys have different string groove depths that allow the yokes to have equal twists and keeps the top cam in a more vertical position.



String side anchor pulley Cable side anchor pulley



Right handed bow shown

Hoyt’s new 3D grooved anchor pulleys reduce cable wear on the yoke end loops by matching the angle at which the yokes approach the pulley.

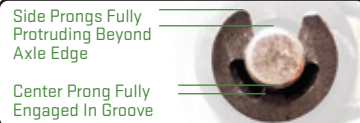
AXLE E-CLIP INSTALLATION CRITERIA

⚠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.

REDWRX GRIP SYSTEM

The new REDWRX Grip System is found exclusively on the Carbon REDWRX RX-4, RX-4 Ultra and RX-4 Turbo. It is designed for ultimate tune-ability to accommodate different shooting styles, hand positions, arrow set ups and arrow rest styles. The REDWRX Grip System allows the grip to be shifted left and right, changing the pressure point and minimizing hand torque on the bow, allowing for greater tuning. To adjust the grip follow these steps:

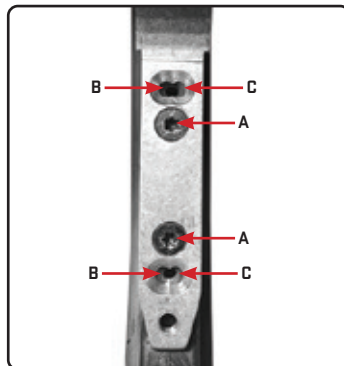
1. Remove the 3/32" Allen screw on the back side of the grip and remove the grip by sliding it down and backward.
2. Choose your desired grip position and install the T-15 Torx grip tuning-plate screws accordingly. Position A is centered, position B will shift the grip right and position C will shift the grip left. See the following section for benefits of each position.
3. Install the grip onto the bow with the opposite action used to remove it. Tighten grip screw.

REDWRX GRIP TUNING

The REDWRX Grip System is an excellent tuning aid to eliminate left and right tears when paper tuning and to adjust your center shot if your bow is tuning inside or outside. Follow these guidelines to use the REDWRX Grip System during paper tuning (for a right handed shooter):

- If you are getting a left tear (see Fig. G), move rest to the right or the grip to the left.
- If you are getting a right tear (see Fig. H), move rest to the left or the grip to the right.

GRIP TUNING-PLATE



(Basically the grip will move the direction of the tear or the rest will move opposite the tear.)



Fig. G



Fig. H

(right) will allow you to move your rest in (right) thus adjusting center shot in.

• If your center shot is further inside than you'd like, adjusting the grip outward (left) will allow you to move your rest out (left) thus adjusting center shot out.

Note: Left handed shooters use same procedures as listed above but make adjustments in opposite direction.

X-ACT GRIP (COMES STANDARD ON AXIUS, TORREX XT, AND TORREX)

The new Hoyt X-Act grip is 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.



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
ARCHERY

Follow these guidelines to use the REDWRX Grip System to adjust your center shot (for a right handed shooter):

• If your center shot is further outside than you'd like, adjusting the grip inward

CARBON INFORMATION AND WARRANTY

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 damaged 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. We are excited and grateful to have you as a part of Team Hoyt. Get Serious. Get Hoyt.



NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



593 North Wright Brothers Drive // Salt Lake City // Utah // USA // 84116-2887 // Phone 801-363-2990 // Fax 801-537-1470 // www.hoyt.com



Follow us on Twitter!
www.twitter.com/hoytarcheryinc



Like us on Facebook!
www.facebook.com/HoytBowhunting
www.facebook.com/HoytTargetArchery



Follow us on Instagram!
www.instagram.com/HoytBowhunting
www.instagram.com/HoytTargetArchery



Subscribe to us on YouTube!
youtube.com/hoytarcheryinc

**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.