

**HOYT**  
ARCHERY

# TARGET COMPOUND

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 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](http://www.hoyt.com). Good luck and safe shooting!

## GET SERIOUS. GET HOYT.



## 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 .....	7
Accessory Selection .....	7
Draw Length .....	7
Draw Weight .....	7
Centershot Alignment .....	7
Nock Point Location .....	8
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 .....	9
Bow Press Usage .....	9
Hoyt Roller Cable Guard Systems .....	9
Invicta Cable Guard System .....	10
Standard Cable Slide Installation .....	10
Hyper ZT Draw Length Adjustment .....	10
DCX Draw Length Adjustment .....	11
Factory Settings .....	12
Cam Synchronization .....	12
Cam Let-Off Adjustment .....	12
Back Wall Adjustment .....	13
Cam Lubrication .....	13
Yoke Anchor Pulleys .....	13
Axle E-Clip Installation Criteria .....	13
Modular Grip Systems .....	13
Locating Your Serial Number .....	13
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 **📌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](http://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](http://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](http://www.teamusa.org/usa-archery/coaching/find-an-instructor-or-coach)), the National Field Archery Association **NFAA** ([www.nfaausa.com/state-organizations](http://www.nfaausa.com/state-organizations)), and The Archery Trade Association **ATA** ([www.archery360.com](http://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, kissers 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:** 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](http://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.

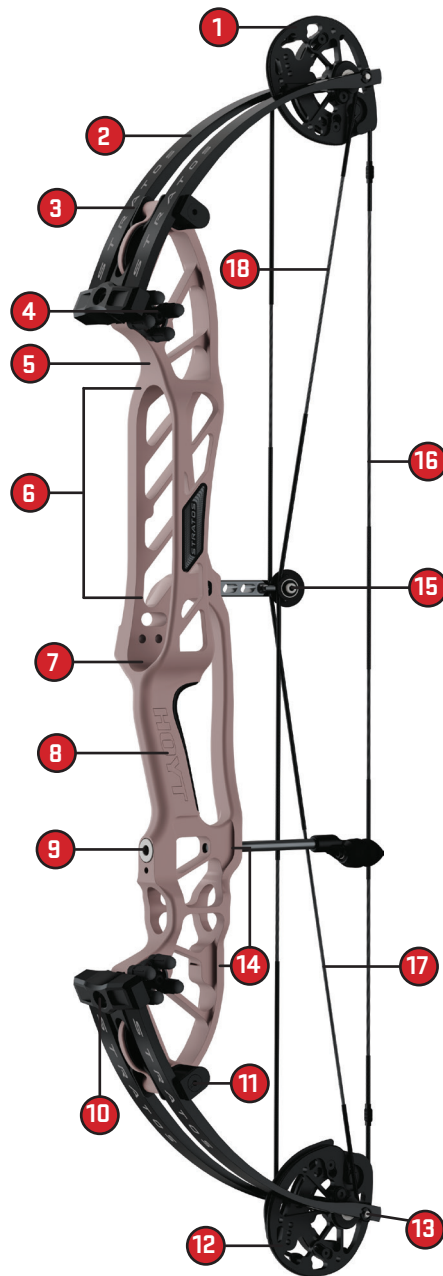
**⚠️WARNING:** Never move, remove, or add additional string weights to your Hoyt bow's string or cables. Strings weights are specifically engineered for weight and location to ensure correct operation of your bow. Alterations to string and cable speed weights could cause your bow to break or malfunction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

**⚠️WARNING:** Never loosen your limb weight adjustment bolts (Tiller Bolts) more than 6 turns from the bottomed-out position as it could cause the bow to violently disassemble

**⚠️WARNING:** Always use a bowstringer when stringing or unstringing a recurve bow.

# COMPOUND BOW TERMINOLOGY

- 1 Top Cam
- 2 Limbs
- 3 Limb Pocket
- 4 Shock Pod
- 5 Riser
- 6 Sight Window
- 7 Shelf
- 8 Grip
- 9 Stabilizer Bushing
- 10 Limb Weight Adjustment Bolt
- 11 Rockers
- 12 Bottom Cam
- 13 Axle
- 14 Rear Stabilizer Bushings
- 15 Roller Guard or Cable Guard and Cable Slide\*  
[\*depends on model of bow]
- 16 Shooting String
- 17 Control Cable
- 18 Split Yoke Buss Cable



# REQUIRED SAFE OPERATING PARAMETERS

## 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 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 (see **photo B**).

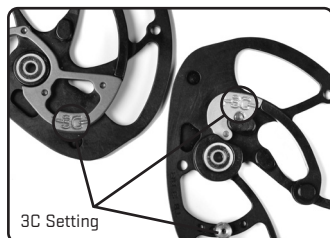


Photo A

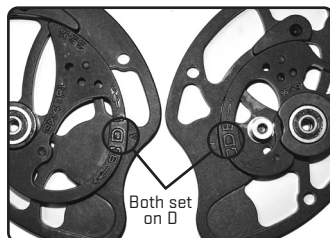


Photo B

**Note:** Bow should never be drawn without modules installed. Modules using an adjustable let-off peg or mod-foot must be fully assembled before the bow is drawn.

*For more information on specific types of cams, settings, adjustments, etc, see page 12*

## 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 C**). Never turn your bow's limb weight adjustment bolts out more than 8 full turns as the bow will become disassembled. 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**.



Photo C

## ATTACHED BOW ACCESSORIES

Your Hoyt bow is equipped with various accessory mounting locations to allow accessories such as sights, 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 D**). Always follow and use the specific arrow rest manufacturer's instructions for correctly setting up the arrow rest for proper function and tuning.



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 E**). 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 (see **photo F** for an example of a "tied-on" nocking point). Only use a high quality archery D-Loop material for installing a D-Loop (see **photo F** for an example

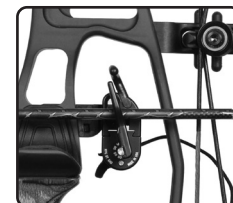


Photo E



of a 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.

### 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.

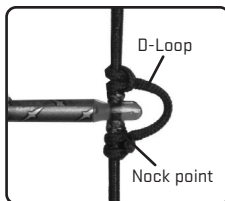


Photo F

# COMPOUND BOW SETUP, TUNING, AND MAINTENANCE

### 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.

### 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** 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. Hoyt bows are capable of being reduced to 10 pounds lower than the peak weight. For example, a Hoyt bow with a 60 lb. max weight can be adjusted to as low as 50 lbs. Do not let out or loosen your limb bolts more than 8 turns. Doing so may cause limbs to pop out during adjustment or while shooting, causing serious injury to you or a bystander. Bows adjusted to their peak weight may draw up to four pounds heavier than the labeled max weight.

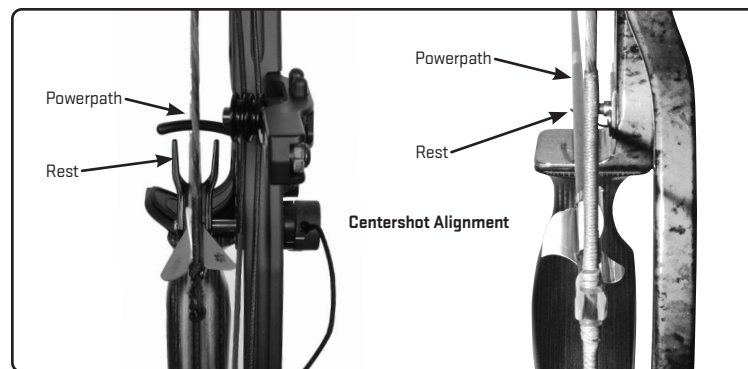
**Note:** It is **not** necessary to loosen the dowel screws to adjust the weight on any Hoyt bow. It is **not** necessary to lower the draw weight for storage purposes.

**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 G**).



Release Setting

Photo G

Fingers Setting

# COMPOUND BOW SETUP, TUNING, & MAINTENANCE

## 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.

## 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 compo-

nents 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 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. **Note:** Once the adjustable cable guard bar is moved in from the 0 setting, the stealth shot string suppressor must be removed.



## BOW GRIPS

Your Hoyt bow grip is attached using set screws that may be removed for personal preference and replaced with a different angled grip (see included grip kit). See Authorized Hoyt Dealer for details.

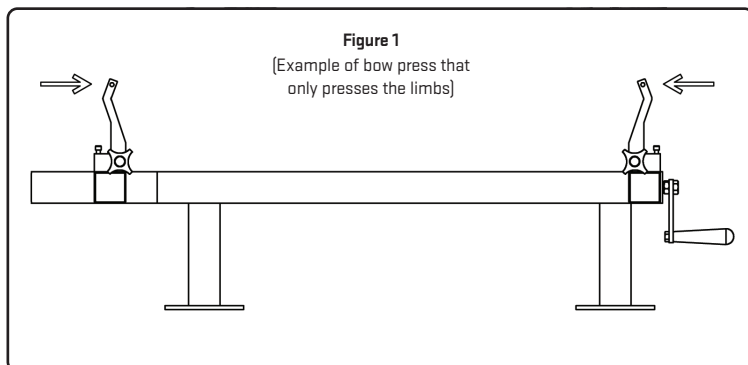
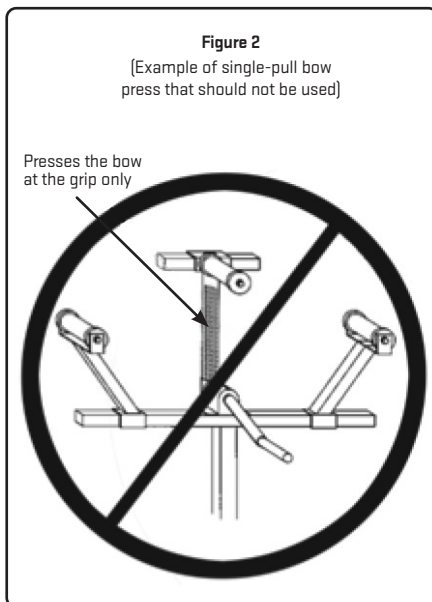
## PAINT AND FINISH

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 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.

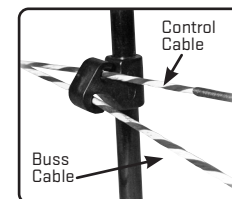
**Note:** In order to remove both the split yoke buss cable and control cable from from Hoyt Roller Guards, the strings and cables must first be relaxed with the proper use of a bow press (see Bow Press section). Once the cables are relaxed, the roller wheels and spacers can be removed by loosening and 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. The HBT Roller Mount Assembly is designed to allow for installation and removal of the cables without disassembly.



## 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 I). Next, push the control cable into the shorter front slot. Then, push the buss cable into the longer rear slot.



# COMPOUND BOW SETUP, TUNING, & MAINTENANCE



**Notice:** **DO NOT** attempt to adjust or loosen the adjustable cable guard bar while the cables are still in the cable slide.



**Always** remove the cables from the cable slide before loosening or adjusting the cable guard bar.

## DRAW LENGTH ADJUSTMENT FOR HBT CAMS

The HBT cams are adjustable in 1/4 inch increments, with “A” being the longest position, “A-” being 1/4 inch shorter, and each position thereafter being 1/4 inch shorter. The HBT cam must have the modules installed to the same position between top and bottom cams, with the adjustable let-off module-foot installed in the same position between top and bottom cams. The bow should never be drawn without the modules and module-foot installed. The module screws on HBT cam utilize a T15 Torx wrench for the rotating module screws.

**Note:** Both top and bottom modules must be set to the same position before drawing the bow. Do not draw a bow with no modules installed.

## SVX CAM 1/2 @ EXCHANGEABLE MODULE ADJUSTMENT

Follow the directions below to adjust the draw length on a Hoyt bow equipped with SVX cams:

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

that is located on the bottom cam needs to be adjusted. Remove the draw stop with a 5/64 Allen key and reinstall it in the threaded hole that corresponds with the letter on the cam module. For example: Cam module SVX-2A-BR would use draw-stop peg position A.

## 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 Hyper ZT Cam System. See Cam Synchronizing below for any synchronization adjustments once strings and cables have been re-installed.

## HBT CAM LET-OFF AND WALL ADJUSTMENT

HBT cams feature a “Mod Foot” that allows for let-off to be adjusted to approximately 65, 70 or 75% of draw weight. To do this, use a T15 Torx Wrench to remove the screw from the mod foot and locate the foot in the specified position on the cam. Bows utilizing the HBT cam ship in the “hard” wall position. To adjust to the “soft” wall position, remove both mod feet and switch them from top to bottom and vice versa. The mod feet and the cams have arrows indicating the positioning for hard or soft wall. Match the mod foot arrow to the arrows on the cams for correct positioning. Note: Both top and bottom mod feet must be in the same location. Both mod feet must be installed. Do not draw the bow without meeting this conditions.

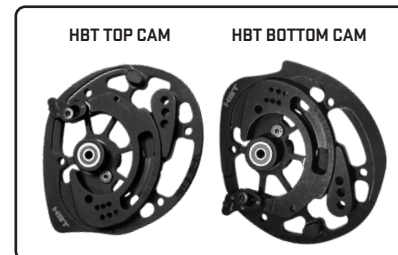


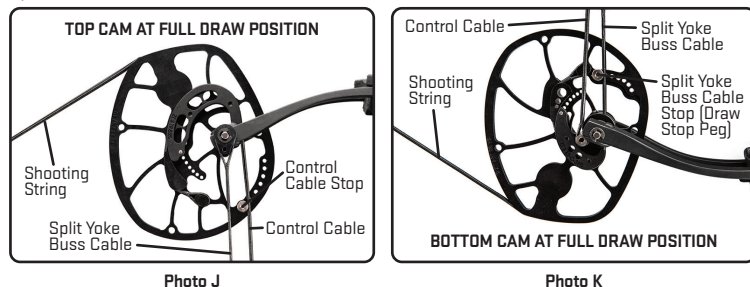
Fig. HBT-1

### 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<sup>®</sup> 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 lit-



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

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 Hyper ZT cam systems and Hyper ZT cam systems, or shorten the yoked buss cable by adding twists in non-Hyper ZT cam systems only.

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

### BACK WALL ADJUSTMENT

SVX cams have the option to change how the back wall of the cam feels at full draw. On the SVX cam, moving the peg from the outer hole to the inner hole will create a “softer” wall at full draw.

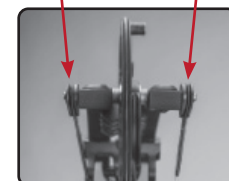
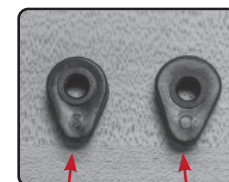
### CAM LUBRICATION

Bows equipped with the Cam & 1/2<sup>®</sup> 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<sup>®</sup> (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 shooting 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





# COMPOUND BOW SETUP, TUNING, & MAINTENANCE

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.

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.



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

## MODULAR GRIP SYSTEMS

The Stratos bow model comes standard with a modular grip system. Bows come factory installed with the 0 degree grip module. To change the modules for a different angle, simply loosen and remove the socket head cap screws with a 7/64 Allen Key and then remove the module. Insert the desired module into the grip bed and replace the screws, tighten to 15 in-lbs. Don’t over tighten.

### Stratos Grip System

- 0 (14 Degree)
- +4 (18 Degree Neutral/Traditional Angle)
- +8 (22 Degree)

- 0 - 1/8” Draw Length
- +4 - 1/8” Draw Length
- +8 - 1/8” Draw Length

## 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 for a Stratos series bow is located near the lower limb pocket.

## 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/](http://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.

# HOYT<sup>®</sup>

## ARCHERY

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

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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](http://www.hoyt.com/warranty) for complete warranty details.  
Bows purchased over the Internet or through mail order void all warranty.

### HOYT RECURVE BOW LIMITED LIFETIME WARRANTY

Hoyt recurve handles are guaranteed against manufacturing defects in materials and workmanship to the original owner for the life of the product, and recurve limbs for two years\*.

\*Visit [www.hoyt.com/warranty](http://www.hoyt.com/warranty) for complete warranty details  
or see warranty policy in owner's manual.