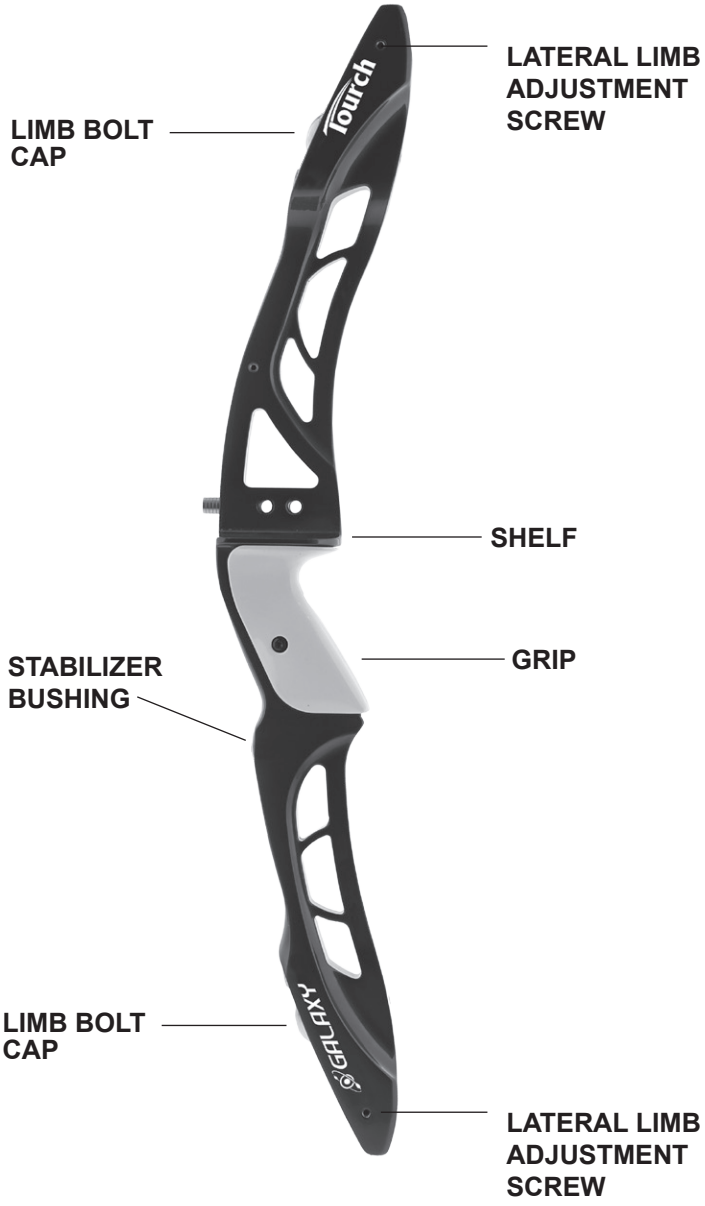
Tourch ILF Takedown Recurve Bow Manual

Congratulations on the purchase of your Galaxy bow. We are excited and thankful to have you as a valued customer. This manual covers the Galaxy Tourch ILF Takedown Recurve Bow.

Know that Galaxy products are built with the archer in mind. They are built from quality materials and are designed to perform to our high standards. With proper use and some basic maintenance, your new Galaxy product will allow you to enjoy years of reliable shooting.

Archery is an enjoyable sport for people of all ages. Please be mindful, however, that, when not used properly, archery equipment is capable of causing serious personal injury or even death. It's up to you to protect yourself and others from harm when you are participating in archery.



⚠ WARNINGS

DANGEROUS PROJECTILE

- A mishandled bow, arrow or bowstring may result in serious injury or even death.
- Bows and arrows are not toys.
- Failure to follow Instructions and Safety Warnings could result in serious or fatal injuries to the user or people nearby.

The user's parent and/or user MUST read, understand and follow these INSTRUCTIONS and SAFETY WARNINGS

- Always point the bow and arrow in a safe direction down-range at targets intended to be shot.
- Never shoot toward a human being or pet or permit someone to hold a target for you.
- Never run with a bow or while carrying arrows; the point or nock of an arrow can cause serious injury.
- Be sure no one is standing in front of or to the sides of the archer while the bow is being drawn or shot! Be sure everyone is standing behind the archer.
- Shoot only at a suitable target material and backstop. Try first shots at closer distances of 5-10 paces to avoid errant shots or until the archer feels comfortable shooting the bow accurately.
- Never shoot an arrow up in the air, it can travel several hundred yards and land anywhere!
- Always use extreme care when pulling arrows from a target; arrows can come out suddenly, jerking backward forcefully poking into someone's body, face or eyes without warning.
- Always have an adequate backstop in the area behind the target. Make sure the area behind the target is clear and free of objects that may be hazardous or cause the arrows to bounce off or be deflected.
- If shooting in a group, do not allow anyone to retrieve arrows until ALL arrows have been shot!
- Never dry fire your bow. That is, never pull back and release the string without an arrow nocked.
- Inspect your arrows before each shot to detect any cracks or damage & never use arrows that are damaged or too short.
- Replace your bowstring when it becomes worn or frayed.
- Always string your bow properly and carefully using a bow stringer.
- Store in a safe place. Keep out of the reach of children.
- Safety precautions must be taken with adult use or supervision just as with an air rifle, darts or any other potentially dangerous projectile.
- The buyer and user of this product acknowledge that this is a potentially dangerous product that can inflict serious or fatal injury.

INSTALLATION OF ILF LIMBS

Your Galaxy Tourch Recurve bow uses our genuine ILF (International Limb Fitting) System. It is quite convenient, secure, and easy to use, resulting in the most accurate and quiet limb mounting system available today.

1. Align and begin to insert the stainless steel ILF dovetail bushings into the dovetail slot in the end of your riser's open limb pocket, then place the limb butt fork groove onto the limb bolt shank underneath the limb bolt cap. (See Figure 1)
2. Firmly push the limb into the ILF dovetail limb socket base until the spring loaded detent button engages and the limb stops and is fully seated. You will usually feel or hear a light click as the limb stops when this occurs. Look for the limb butt plate edge to be within 1/16" of the end of the riser's limb pocket and for the limb to not come back out easily.
3. It is entirely normal for the limb to still move up/down on the limb bolt or rock slightly sideways at the ILF dovetail until the bow is braced and strung under tension.

Figure 1

4. To Remove ILF Limbs, grip over the top of the limb just outside the riser and use your thumb to push against the end of the riser underneath the limb, popping it out of the dovetail. Usually, almost no pulling or arm strength is needed to do this if the technique is used properly.

INSTALLATION OF ILF LIMBS *(continued)*

NOTE: After stringing your bow, but before shooting your first arrow, check the seating of your limbs by pulling the string 2-3" and letting go. If you hear a "pop", the limbs have seated correctly. If there is no "pop," it simply means the limbs were already seated prior to stringing. If this step is not completed, the limbs may seat on the first shot with an audible "pop" which is normal.

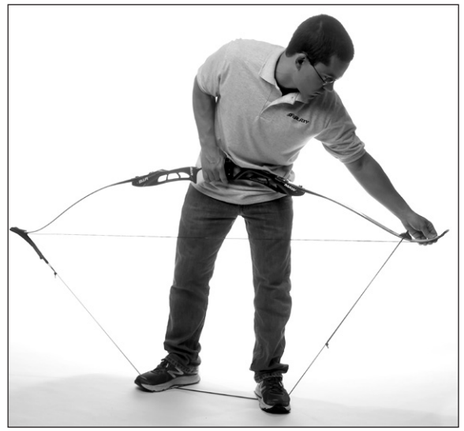
STRINGING A BOW

Always use a bow-stringing device to string and unstring your bow. Generally, bowstrings have one large end and one small end. (See Figure 2) Occasionally, there is not a difference in size. In this case, orient the string by making sure the center serving is properly positioned to set nocking points. (See later section on "Nock Height.")

NOTE: If the serving is too low to properly set nocking points, then the string is upside down.

Figure 2

Figure 3



With bowstrings that have different size end loops, follow this procedure. (Do the same with other strings, but disregard the loop size directions.) Place the larger loop over the top limb and slide it down toward the riser. Place the smaller loop into the groove on the bottom limb tip, and then pull the upper end of the string tight by hand. It will not reach the end of the bow at this point.

Place one end of the bow stringer on to the lower limb tip. Place the other end over the upper limb tip, but set in a spot where it doesn't interfere with the bowstring.

Holding the bow by the handle, place it out in front of you, parallel to the ground. A loop in the stringer should hang down. Lower the bow until you can step on the loop in the stringer and pull the bow upward. (See Figure 3) This will cause the bow to flex, and you will be able to slide the upper end of the bowstring into the groove at the end of the upper limb tip. When you make sure the bowstring is seated firmly within the upper and lower limb tip grooves, the bow is then properly strung.

BRACE HEIGHT

A bow's brace height is measured from the bowstring to the grip throat or pivot point of the riser. (See Figure 4) Brace height is critical to your bow's performance, tuning, and quietness when shooting. Use this guide in setting the brace height on your bow to maintain optimum performance.

	SHORT	MEDIUM	LONG
TOURCH	7.75 - 8.75	8 - 9	8.25 - 9.25

Figure 4

You can generally make reasonable adjustments in your brace height by twisting/untwisting your string. Adding twists will increase your brace height. Untwisting your bowstring will lower your brace height. Ensure you do not untwist past our minimum recommended level or it may increase noise due to limb slap, increase forearm contact, or stiffen the dynamic spine characteristics of your arrow while increasing arrow velocity. Do not untwist any string, especially a Flemish twist bow string to a point with less than 10 twists in it.

LATERAL LIMB ALIGNMENT SYSTEM

Proper centering of the limb, riser and bowstring path greatly enhances accuracy and forgiveness, arrow spine flexibility, and tuning effectiveness. Your Galaxy Riser has been factory aligned for use with all ILF Limbs. Your Galaxy riser features an accurate, precise and dependable Lateral Limb Alignment System, that is pre-set and precisely centered at the factory for optimum performance with Galaxy and most quality ILF limbs. The LLAS will maintain its factory setting in the most severe conditions.

Lateral Limb Alignment can be checked and therefore adjusted using either or both the “Limb Tip” or the “Long Stabilizer” method. Our experience is that the “Long Stabilizer” method is easier to understand and see very small differences on precision CNC machined risers with factory stabilizer threads while the “Limb Tip” method is an alternative or second check for metal risers. Both require that the bow be properly strung and then drawn to full draw at least once before checking alignment. LLAS adjustments can be made with the bow strung or unstrung, but never while drawn

LONG STABILIZER METHOD: Use Beiter Limb Line Gauges or place a piece of masking tape on each limb just above and below the riser at the ILF dovetail limb pockets. Precisely measure and mark a vertical line at the center point of each 1 ½” wide limb just as it exits the riser at the ILF dovetail limb pockets. Screw a quality 24-36” target stabilizer into the stabilizer accessory hole and tighten. (See Figure 5)

Rest the bow very gently on the bottom limb tip and stabilizer at nearly a vertical position. Position yourself to look perpendicular across the bowstring centering the bowstring along your limb center marks, riser hardware/holes and grip.

Note the position of the stabilizer to the bowstring line in relation to the top and the bottom limb separately and as a whole. If the long stabilizer is to the right of your bowstring, (See Figure 6) then move the LLAS containing the ILF dovetail to the LEFT by using the small 3/32” hex wrench to loosen the left side LLAS set screw 1/4 turn counterclockwise, (See Figure 7) (making room for the LLAS to move toward that side), then tighten the right side set screw clockwise ¼ turn to drive the LLAS toward the left. Sometimes ¼ turn is too much and you’ll have to come back 1/8 turn the other way…Do not over-tighten these screws.

Figure 5

Figure 6

Figure 7

ALWAYS draw the bow 2-3 times after making any LLAS adjustment to allow reseating of the limbs/bowstring BEFORE checking your adjustment for proper centering and lateral alignment. If the long stabilizer is to the left of your bowstring, then move the LLAS containing the ILF dovetail to the RIGHT by loosening the right side LLAS set screw 1/4 turn counterclockwise, (making room for the LLAS to move toward that side), then tighten the Left set screw clockwise to drive the LLAS toward the right. Sometimes ¼ turn is too much and you’ll have to come back 1/8 turn the other way… Never make more than a ½ turn adjustment at a time to the LLAS.

Do not over-tighten these set screws. When bowstring/stabilizer is aligned, insert the long end of the 3/32” hex wrench into a set screw and tighten by turning the short end snug first, then tighten the other side’s screw and re-tighten the first side screw to securely set. .Then re-check the alignment. ALWAYS draw the bow 2-3 times or unstring and re-string it after making any LLAS adjustment to allow reseating of the limbs/ bowstring BEFORE checking your adjustment for proper centering and lateral alignment.

LATERAL LIMB ALIGNMENT SYSTEM *(continued)*

LIMB TIP METHOD: Rest a limb tip on the floor with the bowstring up and the bow and limb tips facing down with the raised limb supported by your fingertip or a stationary rest such as a table edge. Position yourself to look directly down the bowstring line while glancing down to check the lateral location of the raised limb tip against the face of the limb directly behind it.

The limb tip should be centered above the limb directly in line with the bowstring. (See Figure 8) If your limb tip is leaning to the Right, (See Figure 9) move the LLAS containing the ILF dovetail to the Left by loosening the left side LLAS set screw 1/8 to 1/4 turn counterclockwise, (making room for the LLAS to move toward that side), then tighten the right side set screw clockwise to drive the LLAS toward the left. Do not over-tighten these screws.

Figure 8

Figure 9

Figure 10

ALWAYS draw the bow 2-3 times after making any LLAS adjustment to allow reseating of the limbs/bowstring BEFORE checking your adjustment for proper centering and lateral alignment. If your limb tip is leaning to the LEFT, (See Figure 10) then move the LLAS containing the ILF dovetail to the RIGHT by loosening the Right side LLAS set screw 1/8 to 1/4 turn counterclockwise, making room for the LLAS to move toward that side, then tighten the Left side set screw clockwise to drive the LLAS to the right side. Never make more than a ½ turn adjustment at a time to the LLAS. Do not over-tighten these screws. When bowstring/stabilizer is aligned, insert the long end of the 3/32” hex wrench into the first side’s screw and tighten by turning the short end snug first, then tighten the other side’s screw and re-tighten the original screw.

ALWAYS draw the bow 2-3 times or unstring and re-string it after making any LLAS adjustment to allow reseating of the limbs/bowstring BEFORE checking your adjustment for proper centering and lateral alignment.

STRING GROOVE NOTE: If the string on any recurve bow favors the right side of the string groove, the limb tip will also be leaning to the right side.

SETTING UP A REST

The Tourch is intended to be shot by using a rest/plunger combination. Place a stick-on style rest on the riser above the shelf, aligning the hole in the rest with the rear hole in the riser. (See Figure 11) Your plunger can now be threaded through the rest hole. (See Figure 12)For a bolt-on rest, secure the rest with a bolt threaded through the riser hole away from the archer, and then screw the plunger into the rear hole. When finished, the arm of the rest should be aligned with the plunger button above the shelf.

Figure 11

Figure 12

NOCK HEIGHT

For proper arrow flight, you have to attach your arrow to the right place on the bow string, in relation to your arrow rest. You will want to attach nok sets or tie thread to the bowstring above and below the exact spot on the string where your arrow’s nock should attach so that you can be sure you are nocking the arrow in the same location for each shot. (See Figure 13) Use a bow square to

Figure 13

NOCK HEIGHT *(continued)*

determine the correct nocking point.

Set one end of the bow square on your rest and then attach the other end of the square to the bowstring. You want the arm of the square to be perpendicular to the string. Tie your thread or attach a nok set 3/8 to ½ inch above the center line on your bow square. Nock an arrow and then tie thread or clamp another nok set directly beneath that arrow nock. Leave just a sliver of space below the nock and your lower nocking point so that the arrow nock doesn't get pinched at full draw.

STABILIZER

The Tourch bow has the stabilizer bushing for mounting both your stabilizer and V-bars. The stabilizer mount is on the back of the riser, directly beneath the grip.

CARING FOR YOUR BOW

Your Galaxy bow is very low maintenance. Risers, limbs and bows all are water resistant. Simply wipe them dry with a towel should they get wet, to prevent water damage. Rub the string regularly with an approved bowstring wax to keep it from drying out. Store your bow in a cool dry location when not in use. While it is OK to store modern recurve and long-bows with the string attached, it is safest to unstring the bow when it's not in use, so others cannot misuse the bow.

Keep an eye out for cracks in any part of your bow. Should you find one, immediately stop using that bow and take it to your local Galaxy dealer.

WARRANTY

Your Galaxy bow is warranted against defects in materials and workmanship for one year from the date of purchase to the original owner only. The finish is not covered by this warranty. A dated receipt or proof of purchase is needed for warranty coverage. Evidence of abuse or misuse, and non-factory modifications or the use of attachments or accessories resulting in damage or undue stress will void all warranty claims, whether expressed or implied by this warranty. Prior to returning a bow, please e-mail info@lancasterarchery.com or call 800-829-7408 for a Return Authorization Number. The bow's owner is responsible for the shipping cost to Lancaster Archery Supply for service. Lancaster Archery will diagnose and remedy the issue within the terms of this warranty and return the repaired/replaced bow at our cost.

Please complete the on-line warranty registration on Galaxy Archery's website at www.GalaxyArchery.com.

Legal Disclaimer: The purchaser or user accepts by the act of purchasing this bow, that they have read this manual and acknowledges that shooting archery is an inherently dangerous activity assuming all risks and liability and holds Galaxy and Lancaster Archery Supply, Inc. harmless against all claims arising from the use of this equipment.

GALAXY

www.GalaxyArchery.com