



IT'S A NEW INNOVATIVE BOW
「 **INNO CXT & EX** 」

OWNER'S MANUAL

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Professionalism, Power and Passion!

W&N

IMPORTANT INFORMATION



1. Completely and properly the riser and limb.

In an attempt to improve and increase the accuracy of each bow made by WIN&WIN has a tight connection between the riser and the limb. When setting the riser and the limb, please push in limb until you hear a "tick" sound. This tick sound will assure proper limb placement. The failure to follow this procedure may result in a decreased accuracy and/or a broken limb.



2. Always be safe.

Never shoot your bow straight up. Always be sure of your target area and the area immediately behind it.



3. Never expose your bow to extreme heat or prolonged extreme moisture.

Excessive heat, such as could be experienced on a sunny day inside of a closed vehicle, could cause limb failure. Prolonged storage in a hot, dry attic or damp basement could also be damaging. This voids your warranty.



4. Inspect all arrows.

Before shooting, inspect your arrows for defects. Replace cracked nocks. Discard fractured or dented arrows. Replace loose fletch.



5. Never dry fire your bow.

Dry fire means to draw and release your bow without an arrow. Shooting without an arrow to absorb most of the bow stored energy could cause severe damage to the bow and possible injury to the shooter or others close by.



6. Maintenance of bowstring and bow limbs.

Apply a light coat of bowstring wax to your bow's string on a regular basis. With target bows, use a quality car polish to protect the finish and luster of your bow's limbs.



7. Check the place of weight/tiller adjustment bolt.

When you set the string on bow, keep the weight/tiller adjustment bolt is under the bushing, If the bolt is upper than bushing, it can be shot out anywhere. It can be dangerous.

8. Carefully inspect your bow before each shooting session.

Carefully note condition of bowstrings should be replaced. damaged or suspect limb be reported to the dealer where you purchased your bow.

WARNING

All bows are a deadly weapon. Always abide by all safety advisements. Children should be supervised by an adult.

IT'S A NEW INNOVATIVE BOW
「**INNO CXT & EX**」

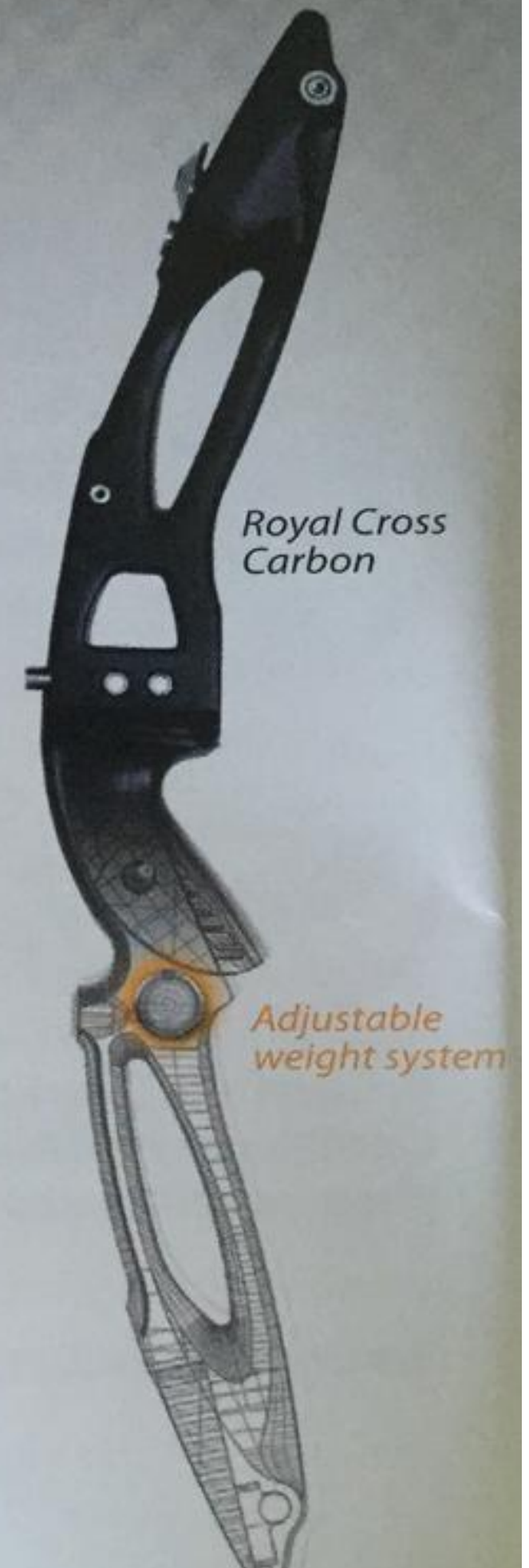
“The string never hits your arm!”

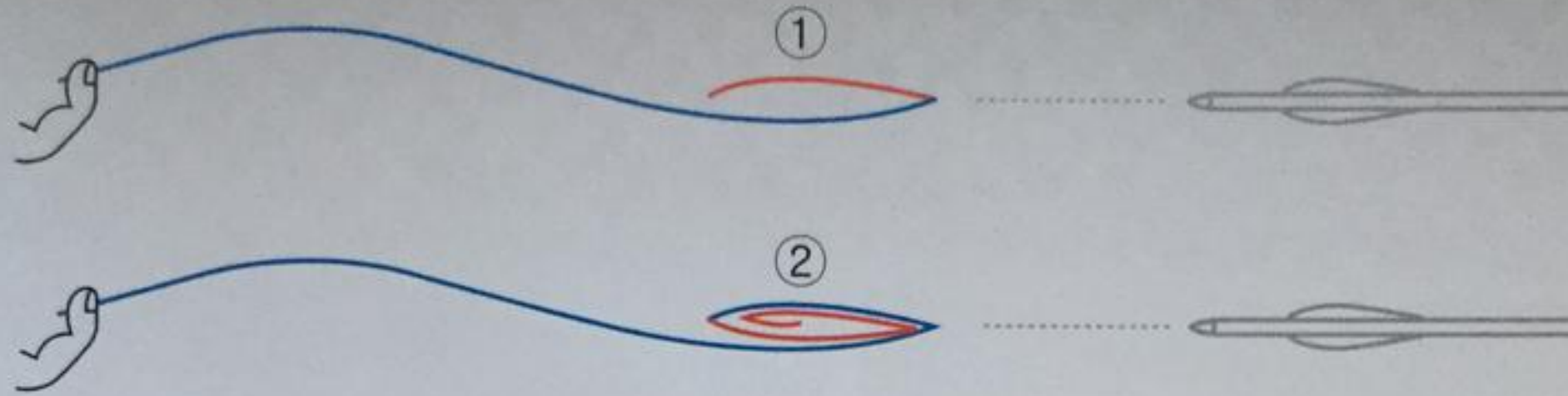
- ▶ **You feel virtually no stress and a powerful strong shot during the moment of release.**

The reason for this incredible feeling is the shock absorption by the bow while the arrow is launched. The reduction of vibration, accuracy and the stability of the limbs are due to the amazing balance between the upper and lower limbs.

- ▶ **Movement of the string or lack of movement is the measure of accurate and stable limbs.**

String movement after shooting shows how accurate and stable the limbs are at the moment of shooting. The more movement you have, the more unstable the system is. In other words, if the string movement when shooting is stable (or less movement), initial moment of the shot will be more accurate, consistent and stable.





Red lined ① is the initial movement of the string while shooting. It shows bow's absorption against the shock in shooting. Red line ② is the string movement after picture no. 1.

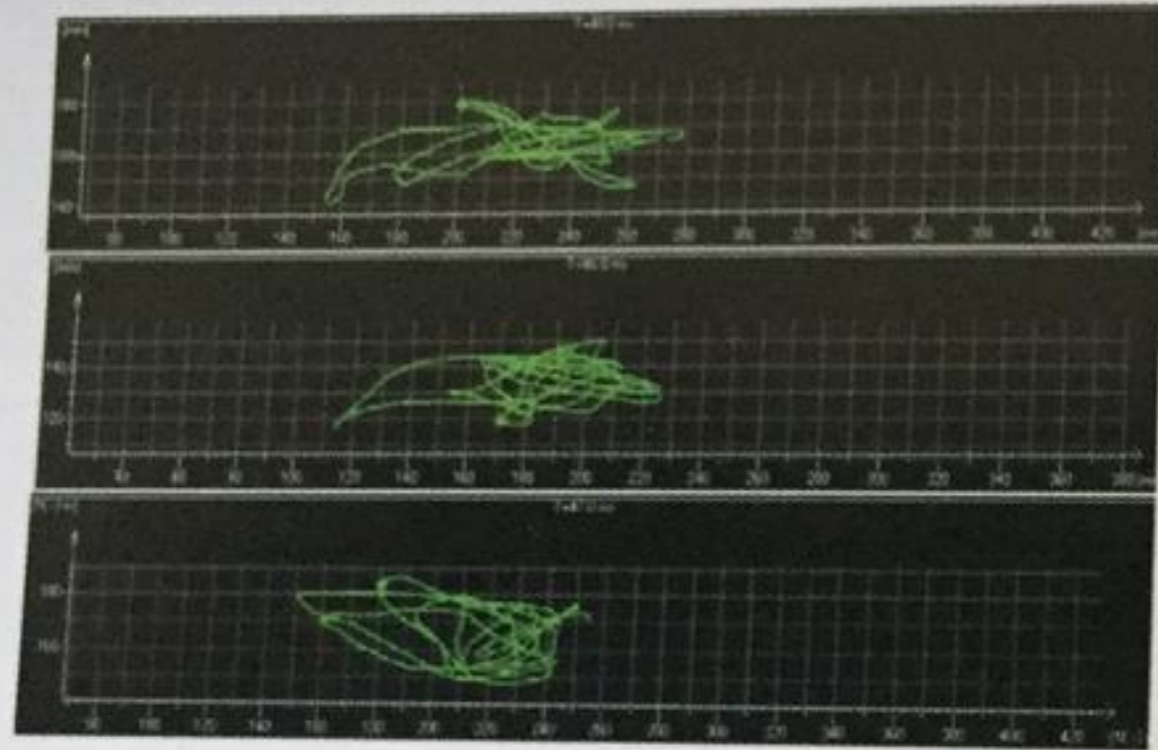
It demonstrates the balance between upper and lower limbs and capability of limbs to handle absorption of vibration. Vibration absorption is related to the accuracy and stability of the limbs during the release. It is natural for the release to have an effect on arrow flight and the archer's feeling of the shot.

The following pictures show the string movement of most of today's bows. You can see that the first string movement is very unstable during the shot on the first picture. Even after the arrow is launched, the string is moving very irregular back and forth or left and right. Thus both limbs move separately which shows a highly unbalanced system.

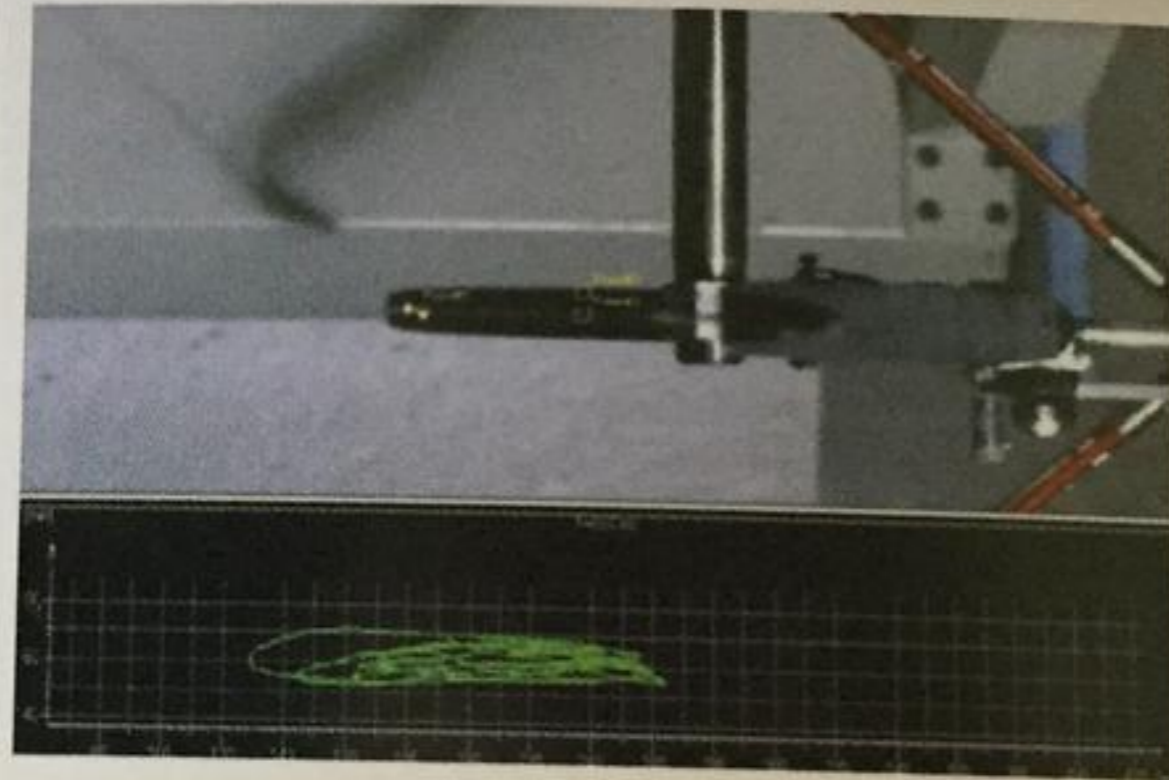
However, clearly the New INNO bow (INNO CXT) has solved these problems. Please look at the following graph which shows a very regular movement of the string. This shows that the archer's

form will stay constant until the end of the shot and the movement of the archer is reduced substantially.

< Normal bows >



< new INNO bow >



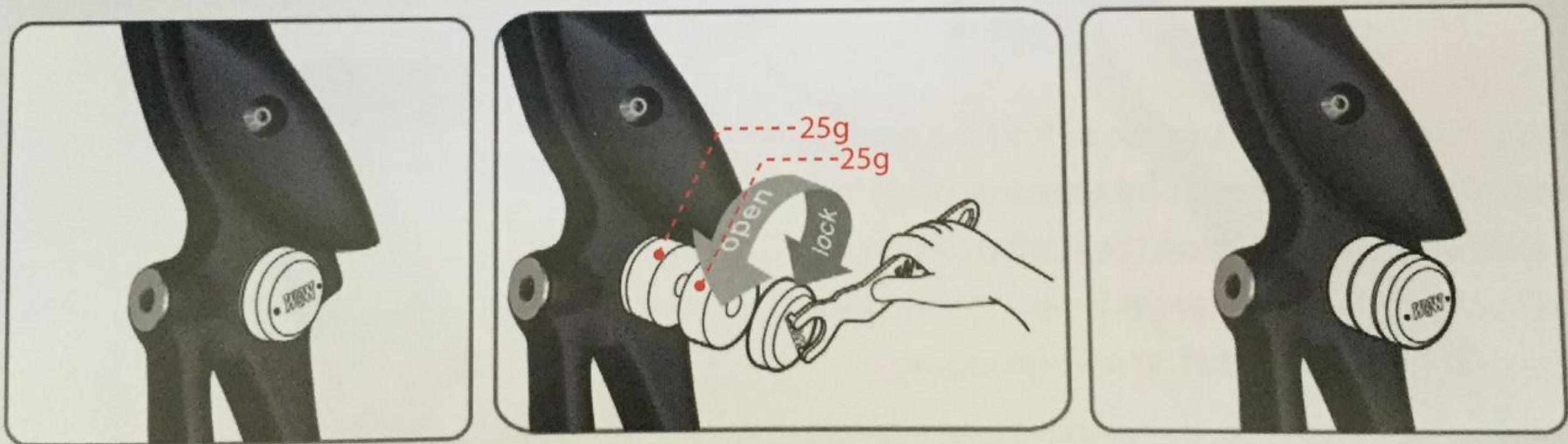
- ▶ Thanks to the superb limb design and production capacity by the WIN&WIN professional engineers we are able to develop this advancement of limb technology and form efficiency.
- ▶ Due to the properties of our advanced carbon riser development which gives excellent resistance and absorption of the vibration we are able to accomplish such a great scientific advancement on bow stability. WIN&WIN's INNO CXT riser maximizes the properties of carbon. The INNO CXT riser minimizes the unnecessary limb movement from the archer's release and

makes bow movement extremely stable while absorbing the vibration with efficiency and far more quickly than any other bows made today.

■ UNIQUE FUNCTIONS

WEIGHT CONTROL SYSTEM

The riser weight is adjustable from 1150 to 1300 grams so the archers can customize the weight to fit their desire. (Using a fork wrench)



A more Convenient Center-Shot Adjustment System.

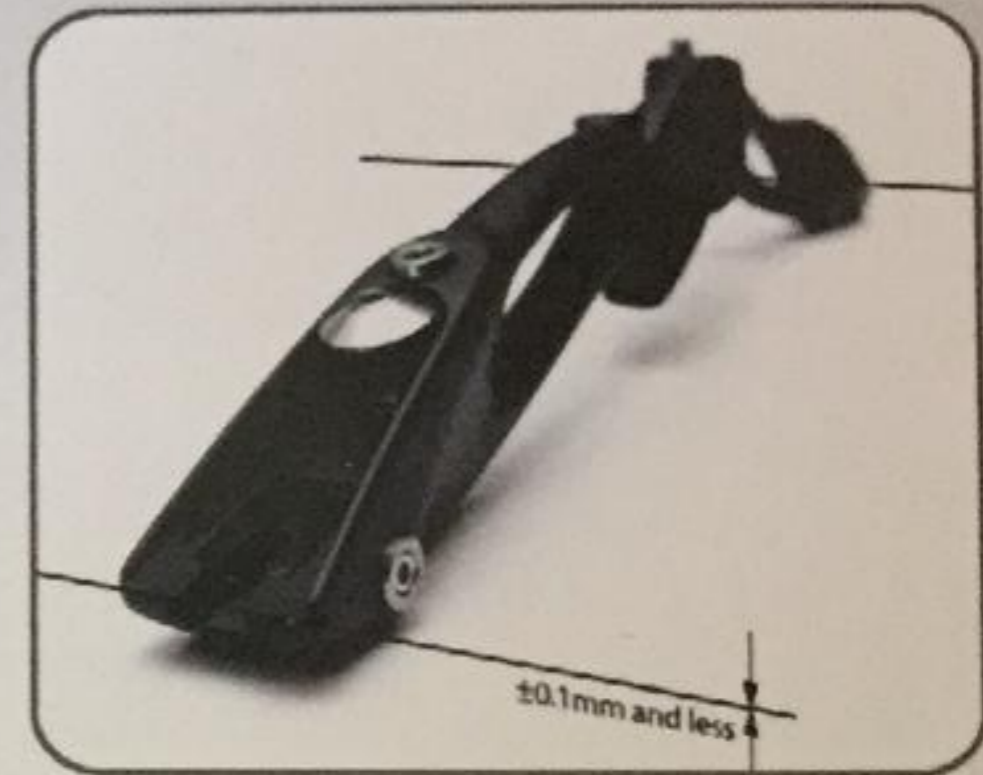
You can conveniently adjust the limb and riser alignment without unstringing the bow. In addition, a highly specialized washer was designed to prevent the limb bolt from randomly coming loose.

UPGRADED ACCURACY

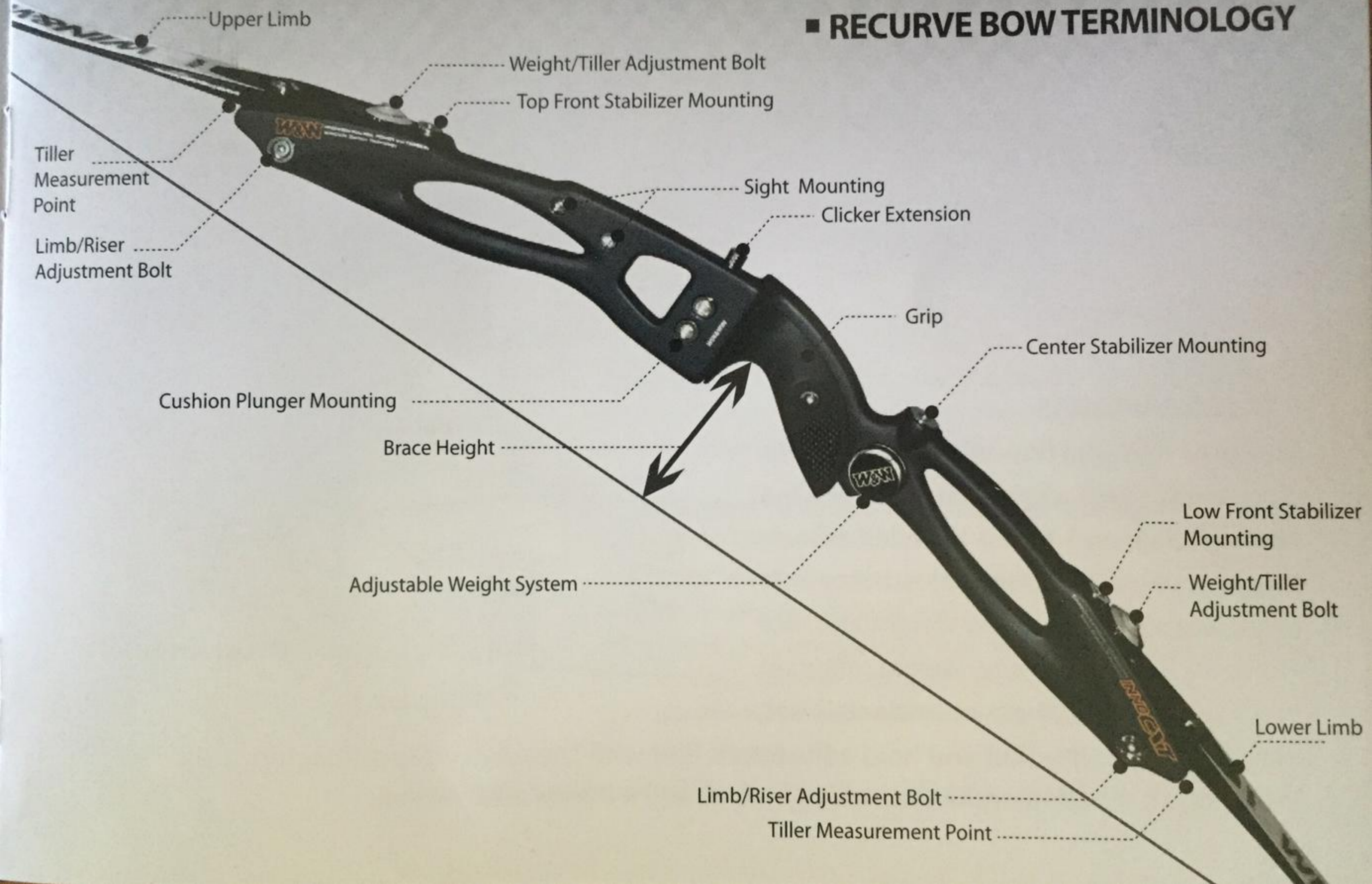
WIN&WIN engineering solved simple problems such as twisting and bending during the molding process. Now it is possible to have virtually perfect limb and riser alignment with WIN&WIN bows.

THE IDEAL GRIP

WIN&WIN's new grip is made to find the correct pressure point for the archer. It is especially designed to take into consideration the joint position of the each finger, so it creates a very stable grip position and increases arrow grouping.



RECURVE BOW TERMINOLOGY



Upper Limb

Weight/Tiller Adjustment Bolt

Top Front Stabilizer Mounting

Tiller Measurement Point

Limb/Riser Adjustment Bolt

Sight Mounting

Clicker Extension

Grip

Center Stabilizer Mounting

Cushion Plunger Mounting

Brace Height

Adjustable Weight System

Low Front Stabilizer Mounting

Weight/Tiller Adjustment Bolt

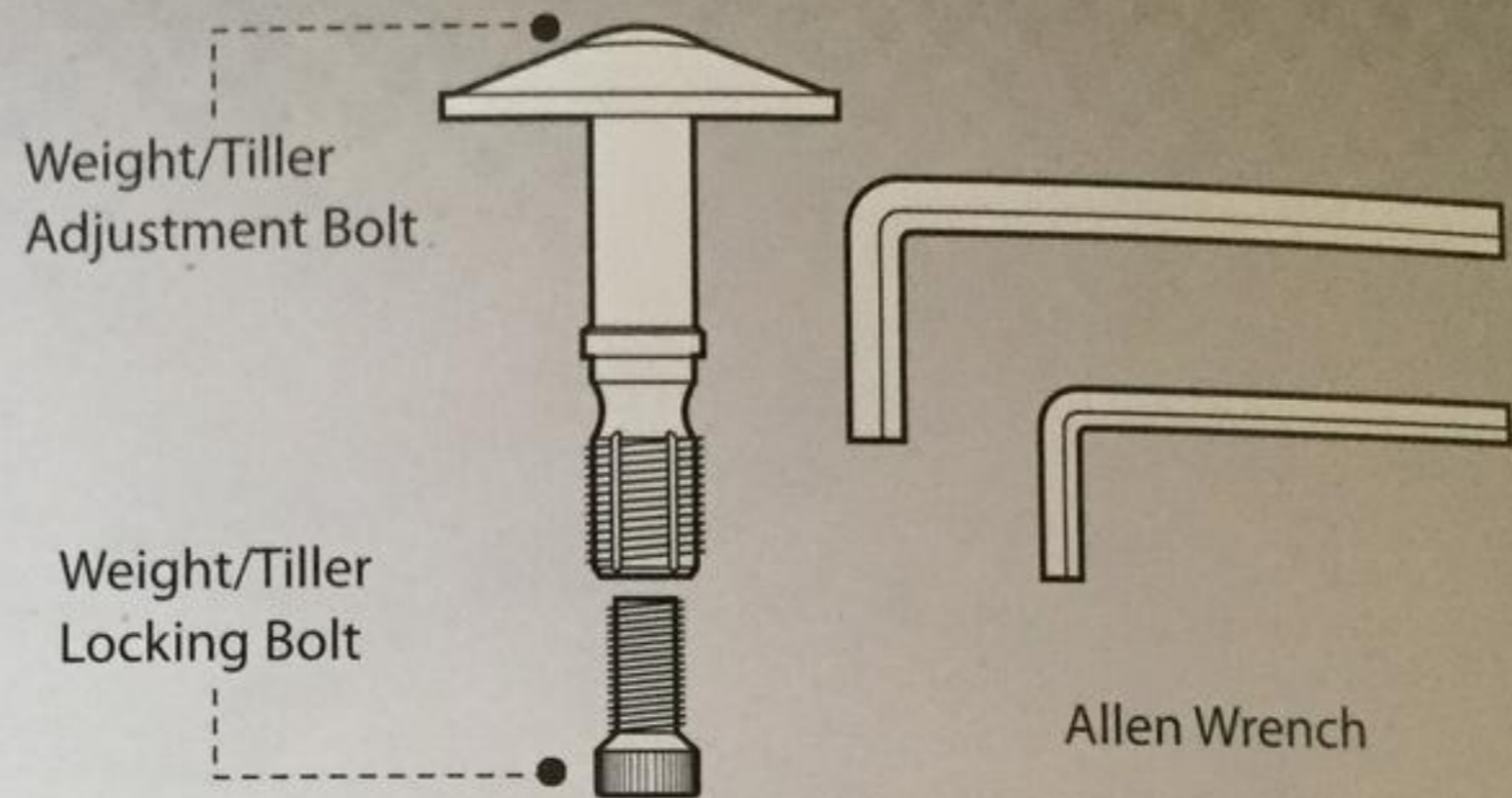
Lower Limb

Limb/Riser Adjustment Bolt

Tiller Measurement Point

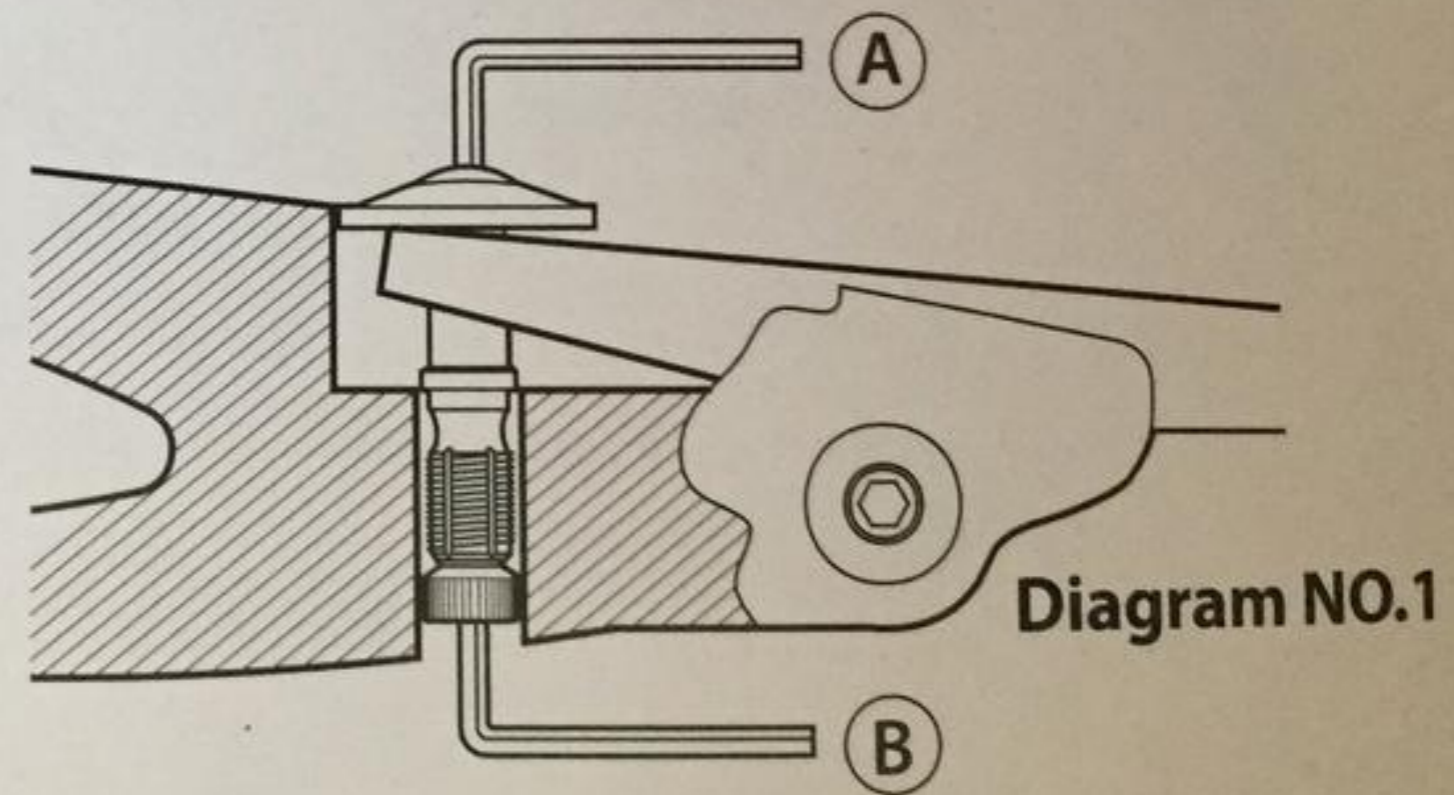
■ LIMB POCKET SYSTEM

The INNO CXT limb pocket mechanism consists of the following parts.



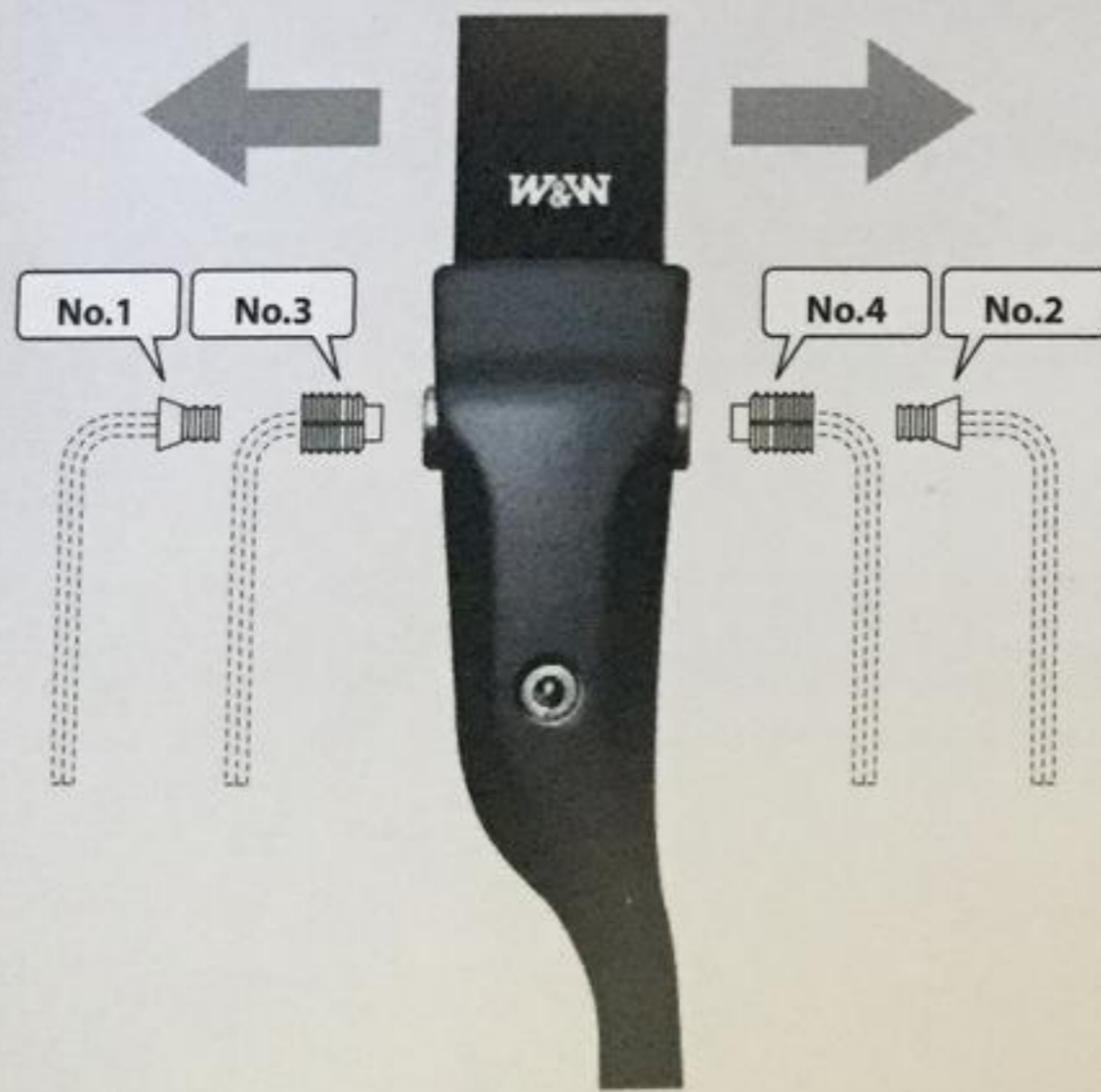
- TILLER & WEIGHT

To adjust tiller and bow weight, first loosen the weight/tiller locking bolt with the Allen wrench (diagram 1-B). Use the Allen wrench to turn the weight/tiller adjustment bolt clockwise to increase bow weight and vice-versa for decrease in bow weight (diagram 1- A). When the correct poundage is set, tighten the Locking Bolt and hold adjustment Bolt with the Allen wrench (diagram 1-B). At this time it is better to lock the locking bolt while the bow is unstringing.



- LIMB/RISER ALIGNMENT

You can simply adjust the center-shot without unstringing the bow. We also adopted the special washers so that it can be a loose-proof system. (Please refer to the previous pages check how to check limb/riser alignment)



(using 4 mm wrench)

► If you want to move the limbs to the *left*, (same as lower limb)

1. Unscrew both locking bolts(no.1 and no.2) completely
2. Loosen the inside bolt(no.3) a little
3. Lock down the inside bolt(no.4) until the limb is set on proper position
4. When the center shot is correct, tighten the inside bolt(no.3)
5. At last, fasten both locking bolts(no.1 and no.2) tightly

► If you want to move the limbs to the *right*, (same as lower limb)

1. Unscrew both locking bolts(no.1 and no.2) completely
2. Loosen the inside bolt(no.4) a little
3. Lock down the inside bolt(no.3) until the limb is set on proper position
4. When the center shot is correct, tighten the inside bolt(no.4)
5. At last, fasten both locking bolts(no.1 and no.2) tightly

❖ Don't forget to double-check the bolts fastened

WIN&WIN RECURVE BOW INFORMATION

WIN&WIN high quality recurve limbs are available: 「INNO EX POWER」 「PROACCENT」 「WINEX」 「INNO EX PRIME」 「APECS PRIME」 「WINACT」

WIN&WIN limbs are available in three lengths: long, medium and short.

Actual bow length is determined by the combination of limb and riser type(length).

The following chart shows the relationship between 27" risers 「INNO CARBON」, 25" risers 「INNO CXT」 「TF APECS」 「PROACCENT」 「WINEX」 「WINACT」 and 23" risers 「PROACCENT」 「WINACT」

WIN&WIN Recurve Bow	Long Limbs	Medium Limbs	Short Limbs
INNO CARBON (27inch)	72"	70"	68"
INNO CXT, TF APECS, PROACCENT, WINEX, WINACT (25inch)	70"	68"	66"
INNO CARBON, PROACCENT, WINACT (23inch)	68"	66"	64"

WIN&WIN high quality limbs are available in marked weight from 28# to 48# in two pounds increment. (**WINACT** Limbs: from 24 to 48#) This marked weight is measured at 26 1/4" (AMO Standard) to the throat of the bow grip (pivot point) when the limbs are used with 25" risers. Shifting the same limbs to **INNO CARBON 23"**, **PROACCENT 23"** and **WINACT 23"**risers will result in a weight increase of approximately two pounds and on the contrary, 27" riser will result in a weight decrease of approximately two pounds.

■ **WIN&WIN BOW**

WIN&WIN Bows have a remarkable limb mounting and limb weight/tiller adjustment system. Internally, the butt end of each limb is engaged in a circular channel. That channel is adjustable for weight control and limb balance.(tiller height) The special dovetail limb guide bushing aligns and captures each limb to prevent it from disengaging from the riser. A spring loaded detent button also holds the limbs in place while stringing. To install each limb in its respective pocket, carefully enter the limb guide bushing in the dovetail groove and gently push the limb forward the limb butt seats into the channel at the back of the pocket. Firmly push the limb to engage the detent button.

- STRINGING

Special attention should be given to the proper procedure for stringing any recurve bow.

The safest and only procedure recommended by **WIN&WIN** is to use a bow stringer. Preadjust the length of the bow stringer according to the manufacturers, instructions. Begin by placing the larger loop of the bowstring over the upper limb and slipping the bowstring's smaller loop in the string groove of the lower limb. Next, place the large cup of the bow stringer over the lower limb tip and the small cup over the upper limb top.

With the upper limb of the bow held the left, step (some prefer to use both feet) on the middle of the bow stringer with instep (back of bow up) and pull with the right hand on the bow grip.

Flexing the bow sufficiently to easily slip the upper loop of the bowstring into the upper limb string groove. To unstring, reverse this procedure.

- BRACE HEIGHT

Brace height is the perpendicular distance from the bowstring to the pivot point of the handle. This height is an important part of tuning. The following chart gives you the recommended brace height range for your **WIN&WIN** Bow.

Contrary to popular opinion, changing the brace height does not change bow weight.

But changing brace height does drastically effect bow performance. For instance, each 1/2" change

in brace height will effect velocity approximately 2 1/2 feet per second.

A higher brace height will decrease velocity. A lower brace height will increase velocity.

The reason for this is that stored energy and the length of the power stroke are both effected by brace height.

Optimum brace height is one that gives smooth bow action, good arrow flight, tight grouping and a quiet shot. Generally, slight variations of string height are not critical, but at the extremes, you may get erratic arrow flight and/or excessive string noise.

WIN&WIN Recurve Bow	Long Limbs	Medium Limbs	Short Limbs
INNO CARBON (27inch) INNO CXT, TF APECS, PROACCENT, WINEX, WINACT (25inch)	22.5~24.5cm	21.5~24.5cm	20.5~23cm
INNO CARBON, PROACCENT, WINACT (23inch)	21.5~23.5cm	20.5~23cm	20~22.5cm

■ LIMB ADJUSTMENT

Bow weight and limb tiller adjustments are accomplished with the all of **WIN&WIN** Bow by using allen wrench or two allen wrenches provided with the bow.

Preferably, these adjustments are made when the bow is strung but after the adjustment, it is better to lock when bow is unstrung as it would be made more firmly. The limb Adjustment Channel is factory adjusted to minimum bow weight for 「INNO CXT」 「TF APECS」 「INNO CARBON」 「PROACCENT」 「WINEX」 and 「WINACT」.

- WEIGHT ADJUSTMENT

The 「WIN & WIN BOWS」 are weight adjustable in a range of approximately 5% above the weight indicated on the limbs. As a fine tuning aid, sometimes changing bow weight to accommodate arrow spine is desirable-increasing weight for a stiff spine and decreasing of it for a weak spine. Turning the weight/tiller adjustment bolt clockwise will increase bow weight. Turning the same bolt counter-clockwise will decrease bow weight. Bow tiller should be checked after all bow weight changes. Some bow weight changes may necessitate tiller corrections.

- TILLER ADJUSTMENT

Strengthening or weakening one limb relative to the other is called tillering. Turning the Weight/Tiller Adjustment Bolt clockwise on one limb will strengthen that limb and decrease the distance between the limb and the string. Turning the Weight/Tiller Adjustment Bolt counter-clockwise will produce opposite results. To adjust tiller on the riser without affecting bow weight, adjust

each Weight/Tiller Adjustment Bolt an equal amount but in opposite directions. When a tiller adjustment is made, shoot several ends, to stabilize the change and recheck the tiller. It is best to make tiller or weight adjustment with bow braced.

Normally, in the course of shooting, all bows will change tiller to some degree whether limbs are adjustable or non-adjustable. Some bows have been known to reverse tiller under extreme conditions. With very few exceptions, bow, that change tiller return to their normal tiller after resting in an unstring condition for only a few hours.

Therefore, with any recurve bow, do not jump into making premature tiller adjustments as soon as a change in tiller is observed. After the bow has rested and is restrung, normal tiller will typically return. However, there are times when limb balance(tiller) may need to be adjusted after some use of the bow has occurred. Should this be the case, make an initial tiller adjustment, then shoot several ends and recheck tiller.

- LIMB/RISER ALIGNMENT ADJUSTMENT

To ensure the proper and accurate alignment of the limb and the riser, you must first inspect the setting of the limb and the riser to make sure that the bowstring penetrates the center point of the upper and the lower limb.(during this inspection, you should also make sure that the bowstring

goes through the center of the grip)

As shown in the diagram No.1 > you must mark the center of the limb on the upper and lower limb using a pen. Moreover, the string has to pass through the center of the upper/lower (the point marked with a pen) and the grip.

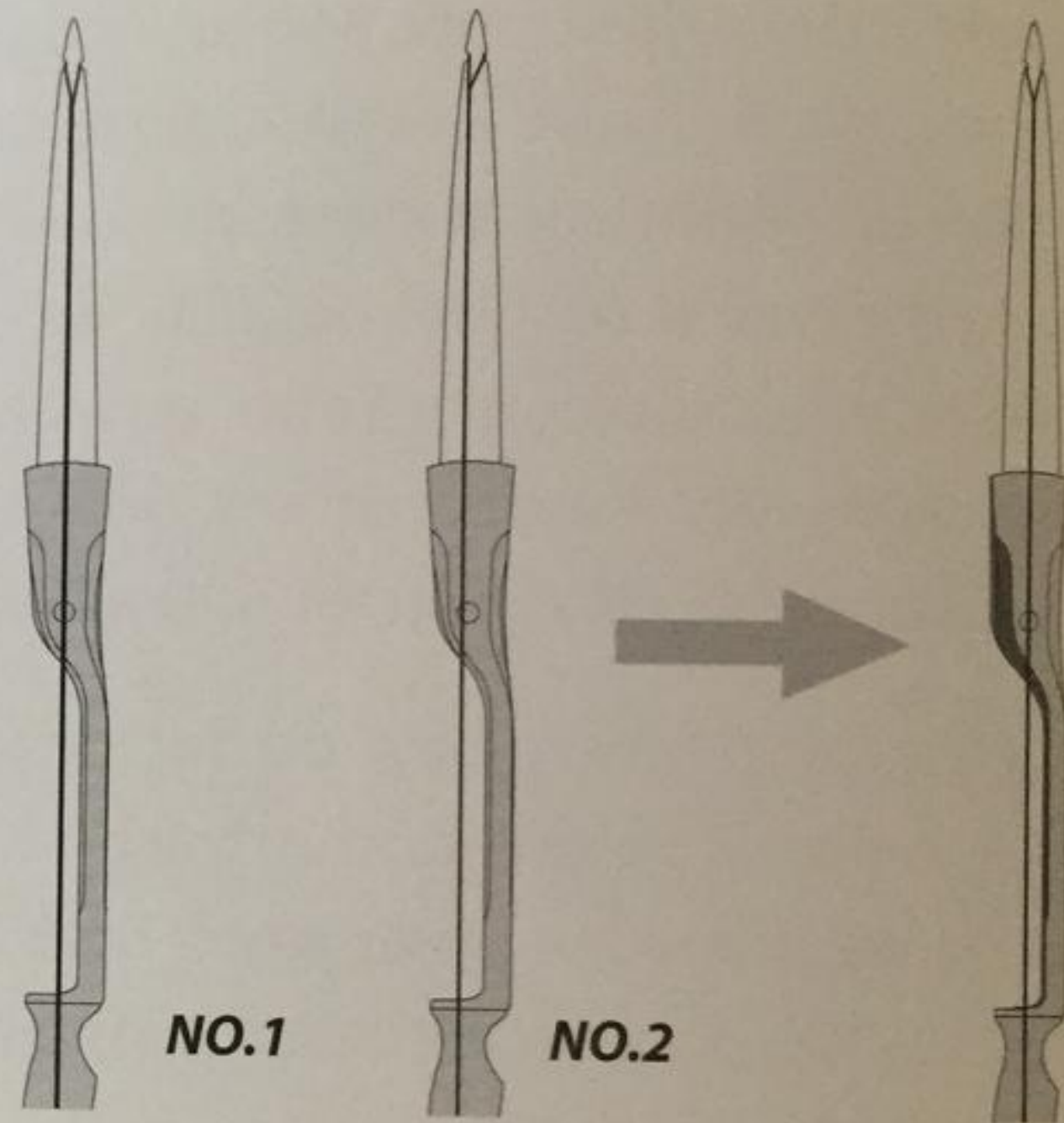
As shown in the diagram No. 2 >, if the upper and lower limbs are tilted toward the left side, it might appear when you try only to place the string on the favoring left.

This will make the sight pin to favor the

right side. Thus, resulting an inaccurate arrow grouping. In order to prevent this, the riser has to be the focal point in setting and adjusting the limb/riser alignment system.

In order to prevent the improper setting and the alignment of the limb/riser, you should follow these steps.

1 > Stand where you can see the window part of a little and the opposite side should not be seen.



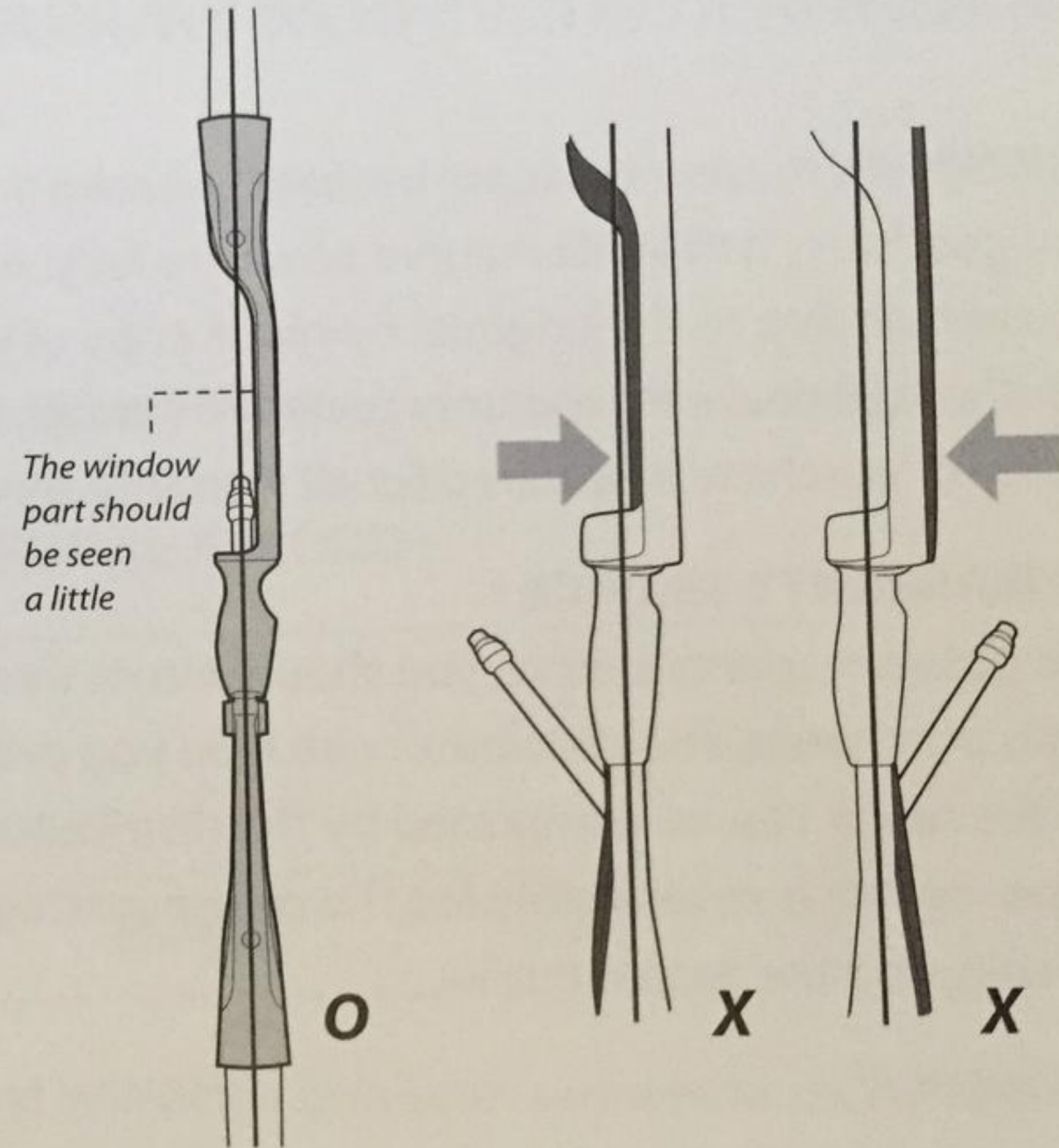
At this time, it is the best if the stabilizer is located in the center of the bow when you find the center of your bow.

Most stabilizers, however, are not straight enough. So the window part is required to adjust the center of the bow.

2> While standing on that side, adjust the string and the center point of the limbs with alignment bolts that these two points are properly and accurately aligned.

At this time, you don't need to unstring the **WIN&WIN** bow.

3> By following the previous two steps listed, you will be able to adjust the alignment of the limb and riser easily.



WIN&WIN RECURVE BOW WARRANTY

WIN&WIN recurve bows are backed by a solid 3 years limited warranty. For the first year from date of purchase, WIN&WIN recurve bows are fully warranted against factory defects in materials and workmanship to the original owner. A copy of your products must be purchased from WIN&WIN authorized dealer for warranty coverage through WIN&WIN head office receipt including establishing date of purchase is required for all warranty service.

• WARRANTY SERVICE •

To obtain warranty service, you should return the damaged bow to the WIN&WIN distributor where you purchased. The distributor can help you determine if WIN&WIN factory service is required or if the repair can be completed by the distributor. If the bow must be returned to the factory, the bow owner is responsible for the return postage. WIN&WIN, in return, will pay the postage for reshipping the repaired bow.

WIN&WIN recurve bows requiring WIN&WIN factory warranty service should be sent to 820-9, Donghang-Ri, Yangsung-Myun, Ansong-Shi, Gyunggi-Do, 456-931, Korea

TEL. +82-31-671-0894 / FAX. +82-31-671-0895

Before any bow is returned to the WIN&WIN factory for warranty service, WIN&WIN return confirmation must be made by **WIN&WIN**.

Any bow returned to the WIN&WIN factory for warranty service :

1. must be sent postage paid
2. must include a copy of the dated sales receipt
3. must include a short note explaining the nature of the problem

• BOW OWNER'S PERSONAL RECORD •

Purchased date :		
WIN&WIN recurve bow model :		
Limb length :	Weight :	#

Purchased from :

signature.