

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, limb balance(tiller) and limb/riser alignment. The special dovetail limb guide bushing aligns and captures each limb to prevent it from disengaging from the riser should bowstring breakage occur. 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 home the limb to engage the detent button.

1. Stringing for 'Win & Win BOW'

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 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.

2. BRACE HEIGHT for 'Win & Win BOW'

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 inch 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
XPERT, INFINITE, EXFEEL, WINACT (25")	22.5;24.5§- (70")	21.5;23.5§- (68")	20.5;23§- (66")
Winact Riser (23")	21.5;23.5§- (68")	(20.5;23§-) 66"	20;22.5§- (64")



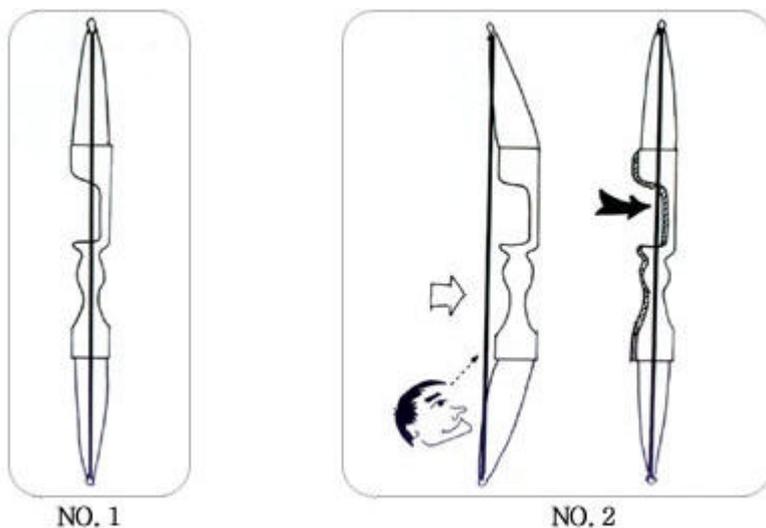
Limb / Riser Alignment adjustment

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. In order to provide an archer with a customizable control the alignment, a limb/riser alignment system is attached on each riser by WIN&WIN Archery Co.

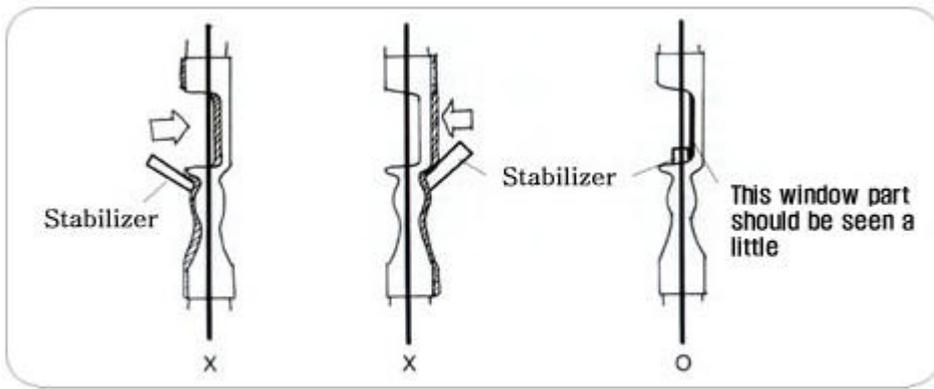
It is recommended that the archer pay special attention in adjusting the limb/riser alignment system. As shown in the diagram No. 2) If the upper and lower limbs are tilted toward the left side, it might appear to be properly aligned when you try only to place the string on the also be tilted favoring the left. This will make the sight pin to favor the right side.

Thus, resulting in 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 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 that these two points are properly and accurately aligned.
- 3) By following the previous two steps listed, you will be able to adjust the-alignment of the limb and riser easily.



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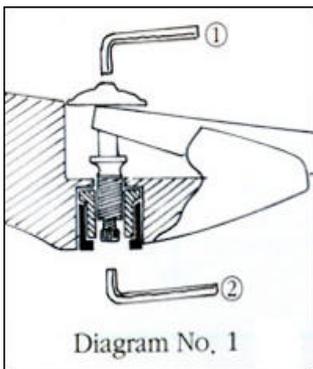
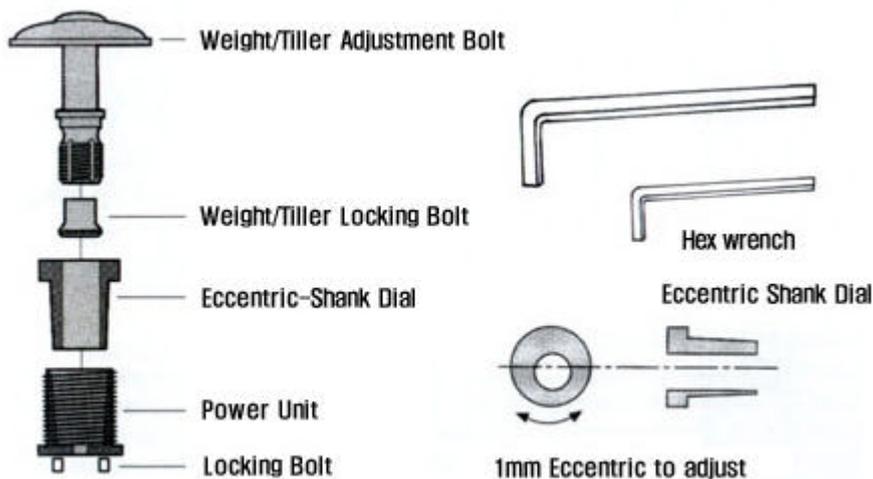
Limb Pocket System

The micro tuning system developed by WIN&WIN Archery Co, allows the following adjustments to be made in fine tuning

- TILLER
- BOW WEIGHT
- LIMB/RISER ALIGNMENT

The limb pocket mechanism consists of the following parts:

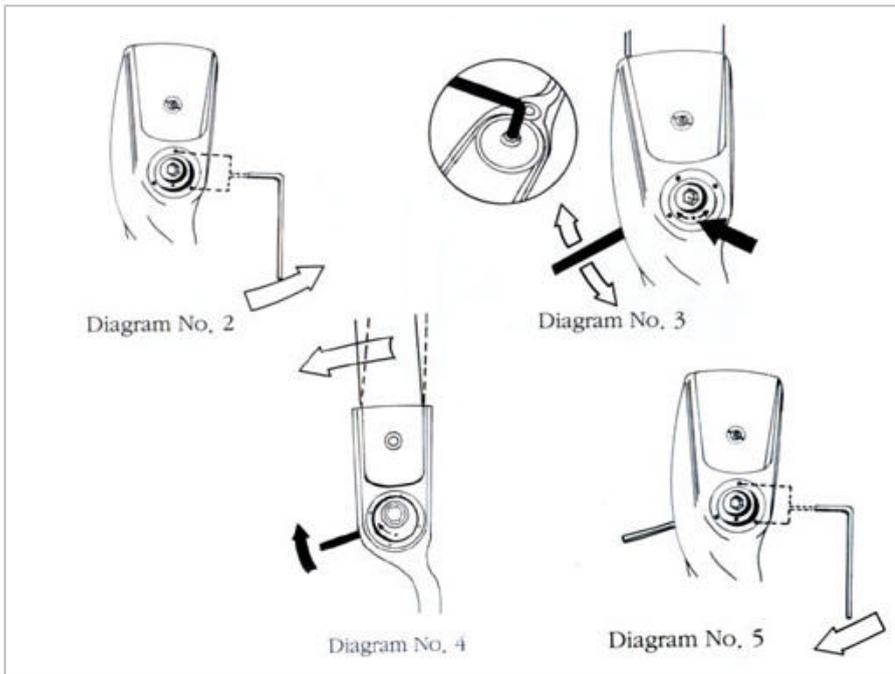
1. [Xpert / Infinite / Exfeel] LIMB POCKET SYSTEM



To adjust tiller and bow weight, first loosen the Weight/Tiller Locking Bolt with the hexwrench (diagram No 1.-).

Use the Hexwrench to turn the weight/Tiller Adjustment Bolt clockwise to increase bow weight and vice-versa for decrease in bow weight(diagram No. 1-).

When the correct poundage is set, tighten the Locking Bolt and hold Adjustment Bolt with the Hexwrench (diagram No. 1-).At this time it is better to lock the Locking Bolt while the bow is unstrung.



To adjust limb/riser alignment, first loosen the Locking bolt with Hex wrench a turn ((diagram No. 2). Turn the Eccentric-shank dial with hex wrench for the correct limb/riser alignment.

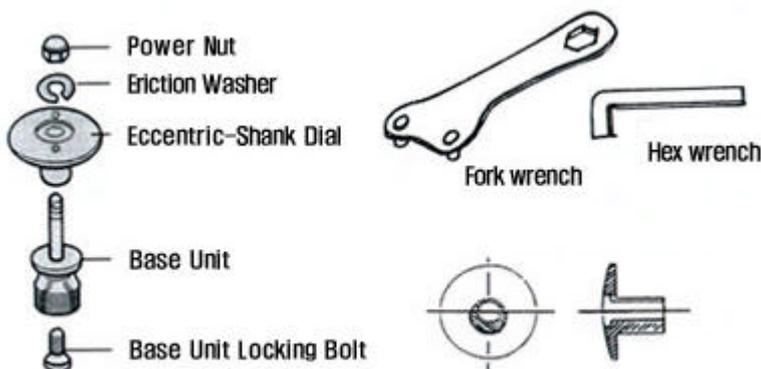
As shown in the diagram No. 3), put the Hex wrench into the Weight/Tiller Adjustment Bolt and turn it right and left side to adjust. Turn the Eccentric-shank dial clockwise to move the limb conuter-clockwise for accurate limb/riser alignment and vice-versa.(diagram No. 4).

Hold the dial in position with the Hexwrench on the Weight/Tiller Adjustment Bolt while tightening the Locking bolt with the Hex wrench((diagram No. 5). At this time it is better to lock the Locking bolt while Hex wrench keep the Weight/Tiller Adjustment Bolt.

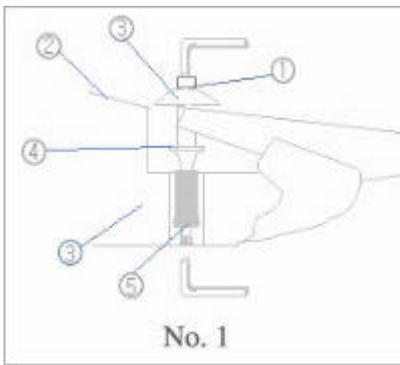
It is recommended that the limb/riser alignment should be done after locking the Weight/Tiller Locking Bolt.

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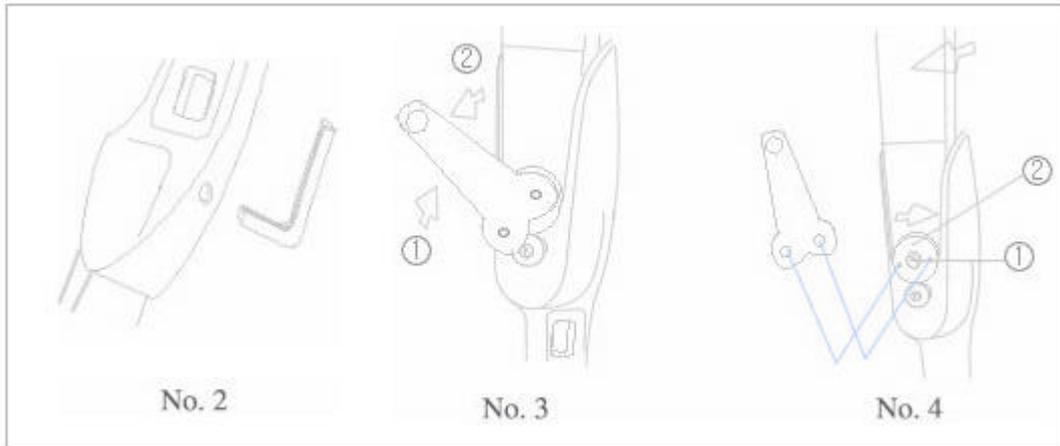
2. [Winact] LIMB POCKET SYSTEM



To adjust tiller and bow weight, first loosen the Base Unit Locking bolt with the



Hexwrench(diagram No. 1). Use the Fork wrench to turn the Eccentric-shank dial clockwise to increase bow weight and vice-versa for decrease in bow weight(diagram No. 2). When the correct poundage is set, tighten the Base Unit Locking bolt and hold the Eccentric-shank dial with the fork wrench(diagram No. 4). At this point, the eccentric is placed inaccuratly, the limb/riser alignment should be adjusted again.



To adjust limb/riser alignment, first loosen the power nut half a turn(diagram No. 2) Turn the Eccentric-shank dial with fork wrench for the correct limb/riser alignment.

As shown in the diagram No. 3),put the fork wrench into the dial holes and turn it right and left side to adjust. Turn the Eccentric-shank dial clockwise to move the limb conuter-clockwise for accurate limb/riser alignment and vice-versa.

Hold the dial in position with the fork wrench while tightening the power nut with the wrench (diagram No. 4). At this time it is better to lock the power nut while the bow is unstrung.

It is recommended that the limb/riser alignment should be done after finishing the tiller and bow weight.