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We all need a little help now and again. That's why we're running this series of back to basic guides by Adam Lewis of Wales Archery.

THIS ISSUE: RECURVE BOW SET-UP

START Archery is one of the most technical sports in the world for equipment, which is why it is so crucial to make sure the bow is set up correctly. In previous articles we have talked about how important arrows and technique are and your bow set-up is no different. If incorrect, it can cause a multitude of problems even before the shot sequence has begun.

Limb twist The very first thing I like to do when setting up a new bow after it's assembled is to check there is no limb twist. There are a few different ways you can do this. The easiest is to simply draw the string back paying close attention to the top limb string track where it sits. You are looking for it to return central, and then check the bottom limb.

Condition 1: If the limb tips are settled in the middle then there is no twist.

Condition 2: If your limb tips are to the right or left, as pictured, in Condition 2 or 3 you have limb twist. If you have a Hoyt riser the twist can be eliminated by building up the shims on one side as per the diagram. If you don't have a Hoyt riser, sometimes the twist can be removed but please don't try this yourself. Bring it into the shop and let an expert look at this for you.

Adjusting the tiller advances or reduces your limb seating position. This is measured with a bracing height gauge from the butt of the limb to the string. There is a minimum and maximum amount the tiller can be adjusted. Please see your riser manual for more information.

We normally start with the top limb advanced 1/8" due to most manufacturers positioning the grip in the middle of the riser. This results in your draw hand position being around 2" above the centre of the bow, pulling more on the top limb. However, if you are shooting three fingers under the string you can shoot with a natural tiller. This is all dependent on your grip pressure, finger pressure, bow reaction and more.

Bracing height This is the measurement from your pressure button hole to your string when strung up; most bows have a different recommended bracing height depending on multiple different factors such as bow style, bow length, manufacturer and limb tip design. Most recurve bows will have a bracing height range adjustment of 2cm so a Hoyt Grand Prix 68" bow has a bracing height range of 21.5 - 23.5cm and you can use that room to find the sweet spot in the bracing height range. The way to do this is by setting your bracing height at either the maximum or minimum, then shoot three or four

arrows and listen to the sound it makes. Then put four more twists into the string and repeat the process. You are looking for the bow to sound its quietest. There might be two to three sweet spots and normally these spots group better as well.

Nocking point The goal is to set the nocking point horizontally so that the arrow leaves the bow at a perfect angle without any clearance issues. Normally, if you have clearance issues the tell-tale sign is marks appearing on the shelf below the arrow rest. This can also be caused by finger pressure. The nocking point is tied on, rather than brass ones. These slow down the string. Removing the brass nocking point also gives cleaner string travel.

Vertatune

Vertatune plates are a specific tuning method for Hoyt recurve risers only. These plates allow you to change the height of your arrow rest. The advantage of this is that if you are pulling too much on your top finger you can select the bottom plate, allowing for more centralised pressure on the string and vice versa.

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Centre shot

It is vital to make sure your centre shot is set up correctly, otherwise you can have poor arrow flight and contact issues. We are looking for the arrow to leave the theoretical centre of the bow. The most effective way to set the centre shot is by using a pressure button. To do this you need to loosen the grub screw on the collar, then tighten or loosen the collar itself so that the pressure button can move inwards or outwards.

We are looking for the end result to look like the diagram below for a righthanded archer. The string should line up along the right-hand side of the arrow if you are right-handed, or the left side if you are left-handed. If you are shooting very skinny arrows, the string can be centred down the middle of the arrow.

Sight alignment

When we have a pressure button and the centre shot is correct, we can now align the sight aperture over the arrow, as per diagram 5. You might find that you will need to move the sight over slightly and this is perfectly fine.

B ClickerThe clicker is an excellent piece
of equipment for improving not
only scores but form – in fact
the clicker improves scores more than
any other piece of equipment. The clicker
makes sure your posture and form is the
same for every single shot. If you get
fatigued and slouch you will find it very
hard to get through the clicker, showing
you just how important it is. It is crucial
that the clicker is set up correctly with an



expert, otherwise it can cause problems.









Images: Adam's step by step formula to successfully setting up a recurve bow



If you have any questions, please drop Adam a line at AdamL@walesarcherycom