

# STOLID BULL BOWS

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## VANQUISH / VANQUISH SXC

### Adjustment of the riser

#### 1. Tiller-Adjustment

The tiller adjustment system of the Vanquish allows a change in limb preload of around +8 to +10% (depending on the limb type).

It is of utmost importance to adjust the limbs in a way that ensures a synchronised arrow acceleration by both limbs. This can be achieved by an independent preload adjustment of both limbs.

The measure for this is called tiller, which is the distance between the string and the point of force insertion into the riser.

For olympic recurve bows, a common tiller measure between 3 and 6 mm positive tiller (upper minus lower measure) has shown as the optimal range. The precise level has to be determined by shooting tests and depends on the limb type and the archers shooting style.

Due to the higher grip position than usual and the opportunity to adjust the arrow rest in a very deep position, the Vanquish allows tiller settings of 3 mm or even lower.

To change tiller (can be done while the bow is strung, but it is recommended to make adjustments while being unstrung), the Allen grub screw in the side of the limb screw has to be loosened.

The slot headed grub screw on the opposite side is a spring loaded blocking element and must not be unscrewed or tightened!



After having loosened the grub screw with a 2 mm Allen key, the limb screw can be adjusted by screwing outwards or inwards on the limb bolt. (14 mm key)

The limb screw shall be screwed outwards at most until it is flush with the limb bolt.



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Screwing outwards further than that level may damage the dovetail area of the riser or the limb itself.

Certain limb models may require an even lower max out position due to their special design (e.g. Kaya KSTORM).

Make sure that the limbs have tight contact to the inner limb screw surface before stringing the bow. If the bow is strung while the limbs do not have full contact to the hat-shaped limb nut, the riser and/or the limbs could be damaged.

Before first use and after every change in tiller setup, please make sure that the limb surface has full contact to the inner side of the hat-shaped limb nut. This must be controlled after having inserted the limbs into the limb pockets before stringing the bow.

Check tiller.

If tiller adjustment is done, please retighten the grub screw until you feel soft resistance. The grub screw presses a PTFE shim against the limb bolt for protection of the bolt thread. There is only soft pressure necessary to secure the limb screw.

## 2. Lateral limb adjustment

Preliminary remark:

High quality limbs should be perfectly straight and there should be no lateral adjustment necessary.

A lateral misalignment of the string is mostly a sign of a manufacturing defect or a mistreated and damaged limb.

**Attention!**

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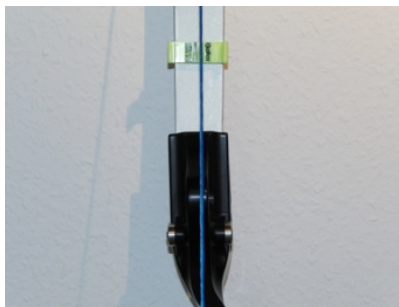
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Nevertheless, the Vanquish is equipped with a lateral adjustment system, which allows the use of slightly misaligned limbs.

In case, you have discovered a misaligned limb by having it checked with a Beiter (r) limb checker or with other methods, you will be able to readjust the limb and bring the string back into the geometrical middle of the bow.

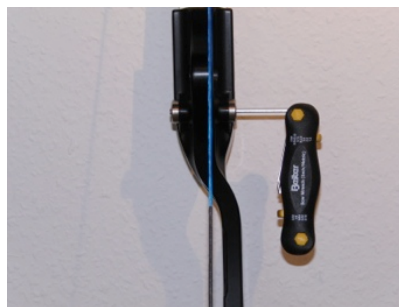
This can be and should be done while the bow is strung.

Check whether one of the limbs is laterally misaligned. The picture shows an example of lateral misalignment to the right side.



Loosen the grub screw (counterclockwise) in the center of the lateral adjustment at that side, the limb is pulling to by 2-3 revolutions. In this example it is the right side. Use a 3 mm Allen key.

**Attention, the grub screws are intentionally stiff!**



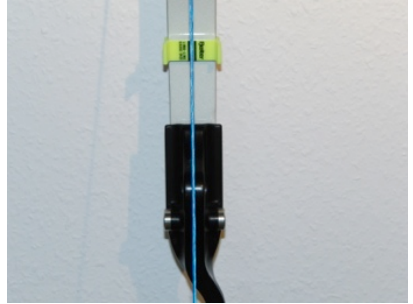
Tighten (clockwise) the opposite grub screw by approximately  $\frac{1}{4}$  revolution.



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Control of string position.



Should there be the need for further adjustment, simply turn the grub screw another 1/4 revolution clockwise, check alignment and so on, until the string is perfectly in the center of the bow.

When the string is perfectly adjusted, simply tighten the first (in this case the right) grub screw until you feel soft resistance.

**Never tighten the grub screws strongly!**

It should be possible to swing the limb bolts with your fingers while applying some force, when the bow is unstrung.

In case you did too much lateral adjustment, please readjust in the opposite way.

In most cases, an adjustment by 1/8 to 1/2 revolution should be sufficient.

Enjoy your Stolid Bull riser and much success in your shooting!