

Hoyt riser alignment adjustment instructions

Rev 1.1 October 2007

The vast majority of Hoyt risers, when used with Hoyt limbs, do not need adjustment. The procedure outlined here is provided for those who wish to make adjustments to their riser and limb setups. Please note that we recommend adjustments, if any, should only be carried out after the first 100-200 shots with a new riser and limbs. This allows the limbs and riser to "settle" into their final alignment relationship, which mates working surfaces and eliminates small variations caused by the paint process on the butt ends of the limbs. In nearly all cases, this will eliminate any slight apparent misalignment with a new riser and limbs without requiring any alignment adjustment.

1. Loosen the radial lock screw in the top and bottom dowels ½ turn. (see page 8 of the included Hoyt recurve owner's manual.) **THIS STEP MUST BE TAKEN BEFORE ANY ADJUSTMENTS ARE PERFORMED.**
2. Attach limbs and string the bow.
3. Draw the bow 10-14 inches and let down in a straight line to ensure the limbs and string are correctly seated.
4. Observe the limb tip condition based on the diagram below

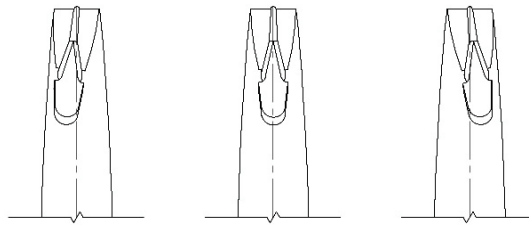


Fig. 1a

Fig. 1

Fig. 1b

5. Bows exhibiting the condition in Figure 1 need no adjustment. Retighten all screws.
6. Bows exhibiting 1A and 1B may need adjustment. Adjustments are made by moving one or more shims from one side of the dowel to the other.
7. **All adjustment references to right and left are from the point of view shown in the above diagram.** Riser handedness does not matter.
8. To adjust the limb tip to the right (**figure 1A**) ADD one shim on the LEFT side of the dowel.
9. Snug the locking screws on each side of the dowel simultaneously using the tools in each screw rotated in opposite directions.
10. To adjust the limb tip to the left (**figure 1B**) ADD one shim on the RIGHT side of the dowel.
11. When a satisfactory adjustment is completed, unstringing the bow.
12. RETIGHTEN the radial locking screw on each dowel.
13. Snug the locking screw on the outboard side of the dowel.

Tips on maintaining bow alignment

1. Use a bow stringer. Use extreme caution if using the push-pull method to string the bow, and NEVER string a recurve bow with the step-through method.
2. Never lean a strung bow against a wall or other support (such as a scope tripod) for an extended period of time. Always use a good quality bow stand such as a Shibuya stand.
3. Never leave a strung bow in a closed vehicle parked in the sun, or other hot location.