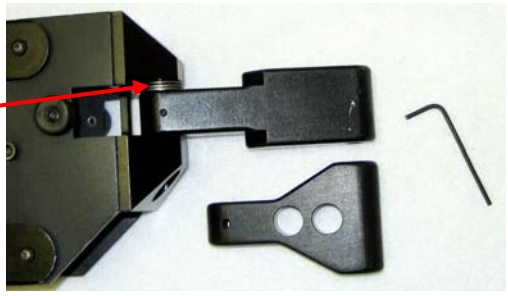
VZ-MX-TA MX Trim Adjuster Accessory retrofit

This device was conceived to improve the performance of the ProLite, standard Aviator, or BlackHawk arms by allowing the operator to adjust arm trim (horizontal orientation) to compensate for the twisting of the vest mount. The trim adjuster will essentially allow you to 'level' the arm so it will ride on a plane parallel to the ground, preventing the tendency of the arm to drift away and making it easier to control, which in turn allows you to focus on the finer points of operation.

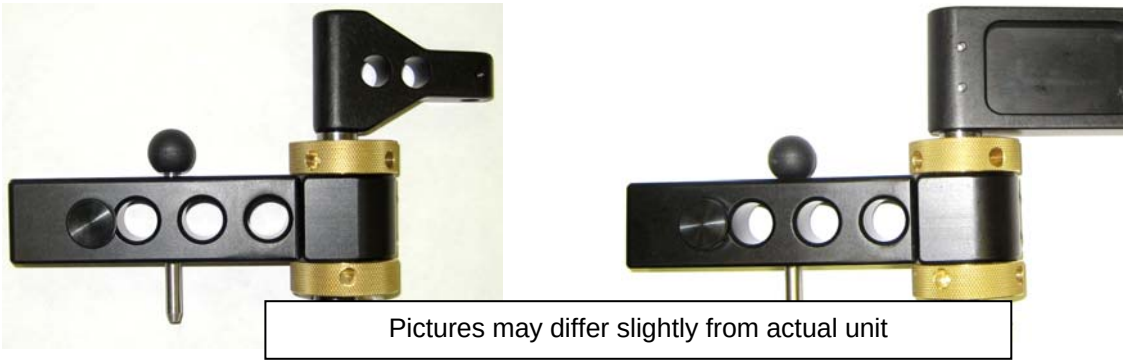
You will have to mount the trim adjuster directly to the vest mount where the arm is normally pinned (ProLite, Aviator) or the arm bridge is pinned (BlackHawk - it will replace the arm bridge). The small knob on the face can be tightened to eliminate any play between the trim adjuster and the vest mount.

For the **ProLite and Aviator**, you will have to replace the existing lower arm linkage with the supplied 'Y' shaped linkage. Simply loosen and remove the set screw on the existing linkage and slide the shaft out, taking care not to lose the thrust bearing assembly (looks like 3 washers). Replace the old linkage with the new one, making sure to put the bearing assembly in the same spot as before (on top). Slide the shaft through the arm, bearing assembly, and linkage, and use the set screw from the old linkage to fix the new linkage to the shaft, tightening the screw onto the flat spot of the shaft.



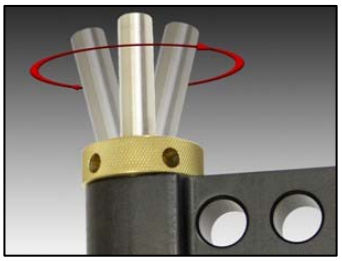
For the **BlackHawk**, you will have to remove the downward-facing stainless steel post on the lower arm linkage. To do this, you will need to knock out the 2 roll pins that hold the post in place. You will need a hammer and a small rod or center punch (<0.12") to knock the pins out.

The new linkage will slide over the stainless steel post on the trim adjuster. Once the arm is fully loaded with a balanced sled, you can proceed to correct the planar orientation of the arm. This is achieved by loosening the large black knob on the underside and rotating the upper and lower brass wheels.



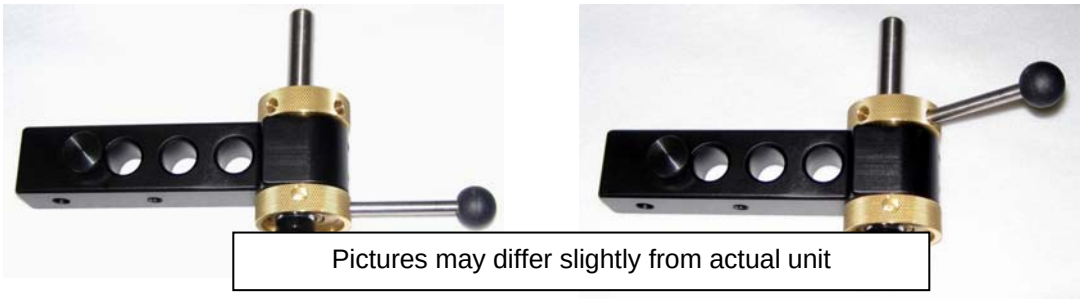
Pictures may differ slightly from actual unit

The brass wheels cause the post to precess (depicted at right), modifying the relative angle of its axis, thereby changing the planar orientation of the arm itself. There are two methods to achieve the adjustment. *** **Start by loosening the brass thumbscrews on the end of the unit.**



Here are the two methods:

1- With the arm & sled fully loaded, loosen the adjustable lever on the underside and turn the brass wheels using the included lever to adjust each wheel until the arm is level, then tighten the lever fully.



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2 – If you wish, you can always make the adjustment unloaded, although this will involve more trial and error

***IMPORTANT NOTE: As an added security measure, we recommend that you lock down the position of the adjuster by tightening the brass thumbscrews, thereby locking the brass wheels into place and preventing unintentional loosening of the mechanism over the course of extended shoots.