

Ray-Vin AR Sight Verifier

The AR sight verifier allows you to quickly and easily test the rear sight on AR15 & M16 type rifles for consistent distance between clicks as well as return to zero from both directions.

Instructions:

1. Clear the weapon! Remove magazine, lock bolt to the rear and put the safety on. Visually check the chamber and verify the absence of ammunition.

2. Rest the rifle in a cleaning cradle.

3. Mount the Verifier on the carry handle using the mounting screw.

4. Use the adjusting screws to position the dial indicator against the rear aperture.

For elevation measurements, position the indicator vertically and put the point on the center of the aperture.

For windage measurements, position the indicator horizontally and put the disk between the sight base and the aperture so the disk contacts the aperture, but the indicator shaft does not contact the sight base.

5. Loosen the indicator bezel lock and rotate the bezel so that zero aligns with the indicator needle.

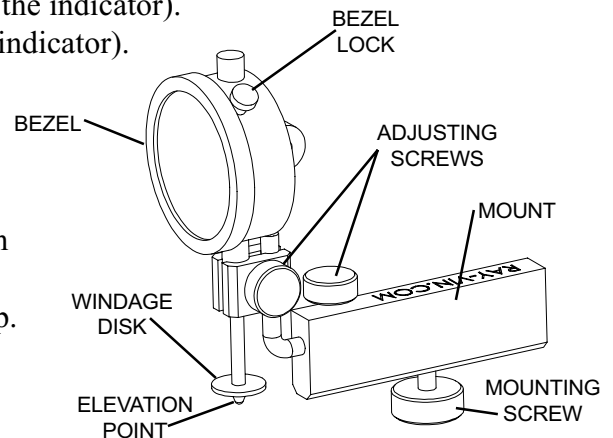
6. Move the windage or elevation knob five clicks in one direction. Then come back the same number of clicks. The needle should be on zero or very close to it. The sight should move with each click. Repeat test in opposite direction.

1/4 MOA sights will move about 0.0015" per click (one and one half lines on the indicator).

1/2 MOA sights will move about 0.003" per click (three lines on the indicator).

1 MOA sights will move about 0.006" per click (six lines on the indicator).

If your sight does not move exactly the same amount on each click, don't be alarmed. What you are testing for is return to zero from each direction and you are looking for dead spots on the screws where the sight may not move at all for several clicks and then make a big jump.



Sight Radius = The distance between the front post and the rear aperture

MOA = Minutes of angle (60 minutes = 1 degree)

Click = Distance the rear sight moves between detents

When calculating MOA, use the average of ten clicks, rather than just one click.

Example:

Click / Sight Radius = .006 / 20.0625 = 2.9906

Tangent of 2.9906 = .0171

.0171 x 60 = 1.028 MOA

$$\text{MOA} = \text{TANGENT} \frac{\text{Click}}{\text{Sight Radius}} \times 60$$

