

## AR15 Sight Adjustments at 25 Meters

<u>Windage/Elevation</u>	<u>Sight Type</u>	<u>Barrel Length</u> (NOTE): for Dissipator-style barrels, use 20"	<u>One Click of Adjustment</u> <u>@ 25M moves point of</u> <u>impact by:</u>
<b>ELEVATION: FRONT POST</b>			
<u>Elevation</u>	<u>A1 Front Post (round)</u>	<u>20 "</u>	<u>1/4" (1 MOA)</u>
<u>Elevation</u>	<u>A1 Front Post (round)</u>	<u>14.5" or 16"</u>	<u>3/8" (1.5 MOA)</u>
<u>Elevation</u>	<u>A2/A3 Front Post (square)</u>	<u>20 "</u>	<u>3/8" (1.5 MOA)</u>
<u>Elevation</u>	<u>A2/A3 Front Post (square)</u>	<u>14.5" or 16"</u>	<u>1/2" (2 MOA)</u>
<b>WINDAGE</b>			
<u>Windage</u>	<u>A1 Rear Knob</u>	<u>20 "</u>	<u>1/4" (1 MOA)</u>
<u>Windage</u>	<u>A1 Rear Knob</u>	<u>14.5" or 16"</u>	<u>3/8" (1.5 MOA)</u>
<u>Windage</u>	<u>A2/A3 Rear Knob</u>	<u>20 "</u>	<u>1/8" (0.5 MOA)</u>
<u>Windage</u>	<u>A2/A3 Rear Knob</u>	<u>14.5" or 16"</u>	<u>3/16" (0.75 MOA)</u>
<b>ELEVATION: REAR DRUM (NON-Match sights)</b>			
<u>Elevation</u>	<u>A2 Rear Drum</u>	<u>20"</u>	<u>1/4" (1 MOA)</u>
<u>Elevation</u>	<u>A3 Rear Drum</u>	<u>20"</u>	<u>1/8" (0.5 MOA)</u>
<u>Elevation</u>	<u>A2 Rear Drum</u>	<u>16"</u>	<u>3/8" (1.5 MOA)</u> <u>(estimated)</u>
<u>Elevation</u>	<u>A3 Rear Drum</u>	<u>16"</u>	<u>3/16" (0.75 MOA)</u> <u>(estimated)</u>

1. Adjust the sights to the **windage** mechanical zeroing position by one of the following methods depending on your rifle:

a. (For A1 sights) Flip the rear sight aperture so that you can see the (L). Next, turn the rear sight windage drum until it moves all the way to the left side and locks. Then, turn the windage drum back, moving the rear sight to the right 17 clicks so that the rear sight is approximately centered.

b. (For A2 "8/3" sights and A3 "6/3" sights) Flip the rear sight aperture so the small unmarked aperture is up. Center the rear sight by turning the rear windage knob until you align the windage notch on the down aperture with the center notch on the rear sight base.

2. Adjust the sights to the **elevation** mechanical zeroing position by one of the following methods depending on your rifle:

a. (For A1 sights) Adjust the front sight post up or down until the base of the front sight is flush with the front sight post well. Then, adjust the front sight post 11 clicks clockwise in the direction of UP.

b. (For A2 "8/3" sights) Lower the rear sight all the way down by rotating the rear elevation drum counterclockwise. THEN, rotate the rear elevation drum clockwise UP one click past the 300m mark (the 8/3 mark on the drum).

c. (For A3 "6/3" sights on a 20" barrel) The A3 rear sight differs from the A2 in that its elevation index is marked 6/3 instead of 8/3. NOTE: the A3 sight has 1/2 Minute of Adjustment clicks instead of the 1 Minute of Adjustments of the A2 Sight. Thus, the A3 elevation dial must be moved TWO clicks clockwise UP past the 6/3 mark on the drum to the Z mark. Otherwise, the windage drum and flip-up aperture - and their operation - are the same as on the A2 rear sight

(For A3 "6/3" sights on a 14.5 or 16" barrel) Same procedure as for A3 6/3 sights, except set the elevation drum on the 6/3 setting, not the Z setting.

3. Once the rear sight is properly set, fire your 5-round shot group.

#### 4. ELEVATION ADJUSTMENT

- a. To **raise** your next shot group, rotate the front sight post **clockwise**.
- b. To **lower** your next shot group, rotate the front sight post **counterclockwise**.

#### 5. WINDAGE ADJUSTMENT

- a. To move your next shot group to the **left**, turn the windage knob **counterclockwise**.
- b. To move your next shot group to the **right**, turn the windage knob **clockwise**.

6. Once your point of impact meets your point of aim, your rifle is zeroed. Do not adjust the front sight for distance; for the A2 and A3 sights, once you are zeroed at 25 meters by this method, your rear sight drum is calibrated as a bullet drop compensator for 300 meters and beyond using the small aperture. For distances from 0 to 200 meters, use the large aperture and put the elevation drum on the 3 setting.

#### SOURCES:

--Operator's Manual, Bushmaster XM15 and C15, Revision of 2005.

--Field Manual 3-22.9, Rifle Marksmanship, M16A1, M16A2/3, M16A4, and M4 Carbine, April 2003 with Change 3 of 28 April 2005 (and Changes 1 and 2).

--<http://groups.msn.com/TheMarylandAR15ShootersSite/zeroingmethods.msnw>