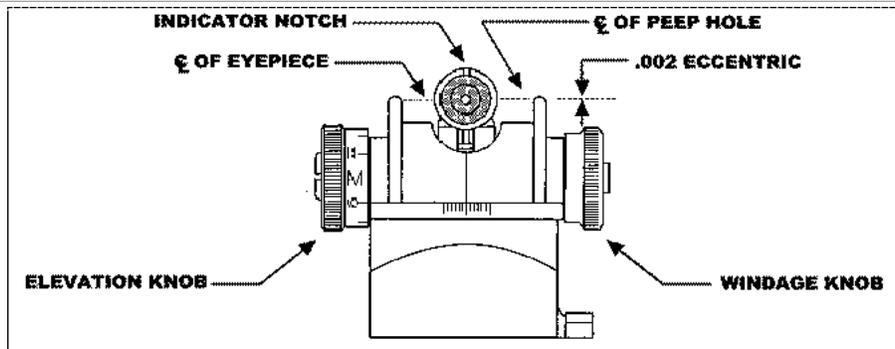


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National Match Hooded Aperture Installation M1 Garand M1A M14 Rifles



1. NATIONAL MATCH REAR SIGHT ASSEMBLY WITH 1/2 MINUTE WINDAGE AND 1/2 MINUTE ELEVATION

A. Two aperture assemblies are available with different peep hole diameters. The aperture with the .0595 in. peep hole is the standard and the .0520 diameter aperture available as an alternate.

The hooded eyepiece is designed to eliminate glare and reflections on the sight aperture, and to provide 1/2 minute changes in elevation. Each eyepiece is selectively fitted and matched with its individual aperture. You should not attempt to disassemble the aperture assembly or to change eyepieces on an aperture.

The peep hole is .002in. vertically eccentric with the other diameters of the eyepiece. Thus rotating the eyepiece 180 degrees clockwise or counter-clockwise raises and lowers the line of sight. Two spring-loaded balls in the eyepiece engage a vertical "v" notch in the face of the aperture to retain the eyepiece in each position. The position of the eyepiece is indicated by a notch at the rear face of the eyepiece.

Each click of the elevation knob gives a change of 1 minute. Rotating the eyepiece so that the indicator notch is at the top moves the point of impact of the bullet up 1/2 minute. With the indicator notch at the bottom, the point of impact of the bullet will be moved down 1/2 minute. In operation you would use the elevation knob to get just above or just below your desired point of impact, and then rotate the eyepiece up to get an additional 1/2 minute of elevation or down to lose a 1/2 minute.

B. The National Match sight base marked "NM/2A" is undercut to accept the hooded eyepiece. The 64 pitch thread of this sight base and of the National Match windage knob produce a 1/2 minute change in windage for each click of the knob. Thus the National Match Rear Sight is capable of 1/2 minute sight changes for both windage and elevation.

2. FITTING THE NM REAR SIGHT APERTURE

A. Using a fine file, modify the underside and end of the aperture as shown, so that the aperture will not bottom out in the rear sight receiver well.

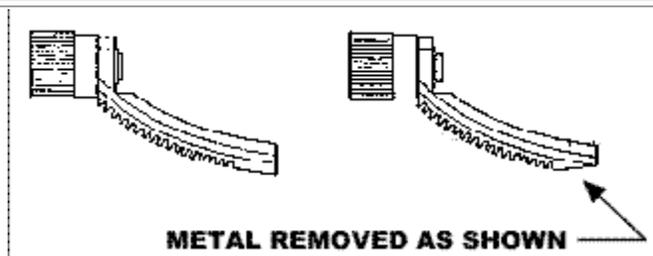


Figure 2A: Fitting the aperture to the rear sight well

B. To fit the aperture to the NM/2A base, the outside edges have to be brought in by stoning or with a fine file. Remove the same amount of metal from both sides slowly, checking the fit often. You want this to be a tight fit with no play from left to right.

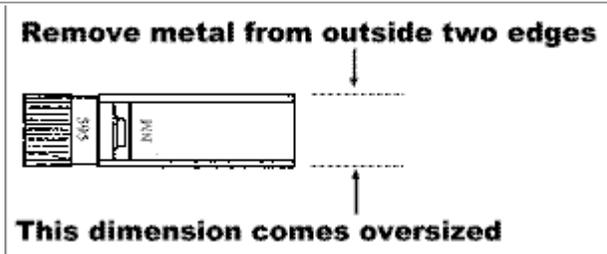


Figure 2B: Fitting the aperture to the NM/2A base

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