

Installing A2 Sights

To assemble the A2 sight you'll need your bench vise, rifle bench block, the upper receiver vise block, a small hammer, a flathead screwdriver with a medium sized tip, rear sight elevation spring tool, a number 1 and 3 roll pin punch and holder. To help keep the sight ball detents in place some gun grease will be helpful.

1. Place your upper receiver into the upper receiver vise block and install the insert. Then put the whole assembly into your vise.
2. Put the elevation wheel onto the elevation knob and screw in the index screw.
3. Install the detent spring and ball into upper receiver through the elevation wheel window.



4. Slide in the elevation knob subassembly into the window of the upper receiver, trapping the spring and detent ball underneath.



5. Insert the sight base tensioning spring and detent ball into the front of the sight base.

6. Place the sight base into the upper receiver through the center of the elevation knob. Turn the elevation wheel counter clockwise until the sight base seats fully onto the upper receiver.

7. Turn the upper receiver upside down and insert the elevation knob spring through the bottom of the receiver into the center of the sight base shaft.



8. Compress the spring using the rear sight elevation spring tool, and drive in the base spring pin using the number 3 roll pin holder, then finish installing the pin flush to the receiver with the number 3 roll pin punch.



9. Next we'll assemble the rear sight base subassembly.
10. We'll first start to install the windage knob roll pin into the windage knob.



11. Place the flat sight spring and the rear sight aperture onto the sight base making sure the rear sight large aperture is up and facing you.

12. Install the sight windage screw from the left hand side and thread it into the sight until the sight is in the middle of the base and the screw sticks out completely on the other side with the hole facing upward.



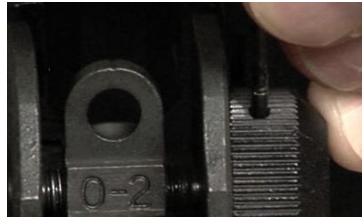
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13. Place the sight detent spring and detent into hole on the back of the windage drum and then put this subassembly onto the end of the windage screw.



14. Turn the windage screw from the left hand side until you can align the hole in the screw with the hole in the windage drum.

15. Finish driving in the pin with the punch until it is seated just below the surface of the windage drum.



16. Test the function of the sight by first flipping up and down the rear aperture. It should snap forward and back with some resistance.



Next rotate the sight drum. Both the drum and the windage screw should turn together with some resistance and click into place at each detent. Turn the elevation. The sight should move up and down clicking into the detents as you adjust it.

Now that you have tested the function of the sight you need to inspect the elevation knob zero. Turn the elevation knob counter clockwise until the rear sight assembly is all the way down. Turn the elevation back one click until the assembly is under detent and spring tension. The three hundred meter mark should align with the index mark on the upper receiver. If 300 meter mark does not align, here is how to properly index it. Rotate the elevation wheel until the 300 meter mark aligns with the index mark on the upper receiver. Insert a 1/16" hex wrench in to the access hole on top of the receiver in front of the rear sight. Loosen the set screw about 3 turns. Rotate the bottom wheel counter clockwise without turning the upper wheel until the sight base bottoms out onto the upper receiver. Then turn the bottom wheel back one click until under detent and spring pressure. The 300 meter mark should still be aligned with the index on the receiver. Finally, retighten the index screw.

