



These instructions use Smith & Wesson's terminology for the various parts of the rear sight. The blade or leaf is called the "slide" by S&W and the base portion that is attached to the gun is called the "leaf". There are two methods described for removing the slide; "A" and "B". Either is acceptable: Choose the one that suits you best (most of our people seem to favor "Method A"). NOTE: Before proceeding with the removal of the rear sight slide, be sure that you have a new windage screw and nut. Because the screw is staked securely to the nut, you will not be able to reuse either piece.



WARNING



Never attempt to disassemble or reassemble a firearm unless you are absolutely certain that it is empty and unloaded. Visually inspect the chamber, the magazine and firing mechanism to be absolutely certain that no ammunition remains in the firearm. Disassembly and reassembly should follow the manufacturer's instructions. If such instructions are not immediately available, contact the manufacturer to see if they are available. If they are not available at all, then you should consult other reference sources such as reference books or persons with sufficient knowledge. If such alternative sources are not available and you have a need to disassemble or reassemble the firearm, you should proceed basing your procedures on common sense and experience with similarly constructed firearms.

With regard to the use of these tools, the advice of Brownells Incorporated is general. If there is any question as to a specific application it would be best to seek out specific advice from other sources and not solely rely on the general advice and warnings given.

HOW TO USE

I REMOVING THE OLD SLIDE: "METHOD A"

1. After selecting the **MAGNA-TIP**® bit that fits the windage screw slot properly, turn the screw *clockwise*, moving the old rear sight slide all the way to the right. Apply enough pressure *clockwise* on the screwdriver to shear the shaft of the windage screw. (The shaft is undercut behind the screw head just for this purpose.)
2. Push the rear sight slide manually to the left, causing the windage screw nut to extend out past the left side of the rear sight leaf.
3. Using your fingers (do not use the rear sight nut spanner for this step), with the staked end of the windage screw still attached, unscrew the nut *counter-clockwise* until it is completely removed from the sight slide.
4. Manually push the rear sight slide to the right, removing it from the right side of the rear sight leaf. Be very careful to hold your thumb and forefinger around the windage screw head to ensure that you do not lose the rear sight plunger and spring which are located in the side of the screw head. In most instances, the rear sight plunger and spring can be reused.

I REMOVING THE OLD SLIDE: "METHOD B"

1. With the drill, remove the staked portion of the windage screw from the nut on the left side of the rear sight leaf. Use a #38 drill and drill only as deep as necessary to remove the staking. Usually, the depth will not be more than 1/16" (.0625). **NEVER** drill deeper than .110" or you will drill into the shoulder behind the nut.
2. After selecting the **MAGNA-TIP** bit that fits the windage screw slot properly, turn the screw *counter-clockwise* until it is free of the nut. If the nut turns with the screw, then use Brownells Rear Sight Nut Spanner to hold the nut in place while removing the screw. If the screw will not turn easily while holding the nut, redrill the nut as it is still partially staked. (**DO NOT** hold the screw in place and attempt to turn the nut off with the Spanner - it will break the Spanner!)
3. Remove the nut from the counterbored hole in the left hand side of the sight.
4. Manually push the rear sight slide and windage screw to the right, holding the thumb and forefinger around the windage screw head taking care not to lose the rear sight plunger and spring, (located in the head of the screw).

BROWNELLS[®] SMITH & WESSON REAR SIGHT NUT SPANNER

#080-431-000



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INSTRUCTIONS

5. The rear sight slide, windage screw, rear sight plunger and spring are now removed from the right hand side of the sight assembly. In most instances, the rear sight plunger and spring can be reused.
6. Unscrew the windage screw from the rear sight slide and discard the screw as it cannot be reused.

II INSTALLATION OF NEW REAR SIGHT SLIDE:

1. Turn the windage screw into the rear sight slide from the right hand side far enough so that the center of the rear sight plunger hole in the screw head does not extend beyond the right hand edge of the rear sight slide. Insert the rear sight plunger and spring into the hole. Depress the plunger and rotate the head of the screw so the springloaded plunger is held in place by the lower right hand corner of the slide.
2. Insert the slide and windage screw assembly into the sight leaf from right to left.
3. With Brownells S&W Rear Sight Nut Spanner, screw the nut *clockwise* onto the left hand end of the windage screw.
4. Using the Nut Spanner Bit to hold the windage screw nut and the proper sized **MAGNA-TIP** bit in the head of the windage screw, tighten the nut *by turning the windage screw* until it is snug against the sight leaf shoulder. (Tightening the nut with the Spanner Bit will result in breaking one of its tips. Be very careful!) Now, back the windage screw out 1/4 turn. If you overtighten the nut at this time, or after staking it, it will not only be difficult to feel the windage clicks, but you may also find that the rear sight slide will not move easily. If you loosen it too much and then stake the nut, you will have excessive play in the slide.

5. Place the right hand side of the sight assembly so the head of the windage screw rests on a firm, non-yielding/non-marring surface (i.e. a nylon bench block or a piece of sheet lead on; your vise). Place a suitable center punch or staking tool on the left end of the windage screw, in alignment with the slots on the windage nut. You may have to either have someone help you by holding the gun with the new windage screw resting on a firm., non-yielding surface, or else remove the rear sight from the gun to safely and properly stake the windage screw into the windage nut.
6. With a firm tap of the hammer on the rear of the staking tool, upset the end of the screw into the slots of the nut. DO NOT use any more force than necessary.
7. Finally, place a drop of light gun oil on the rear sight slide assembly, and move the rear sight slide its complete length of travel in both directions to distribute the oil, and check for proper functioning.

III OTHER USES FOR THE BROWNELLS S&W SIGHT STAKING PUNCH

This punch can be used for staking the ejector ratchet to the ejector rod on Colt Double Action Revolvers, frame models D, E & I when the threads

have loosened with removal/reassembly of the ejector ratchet from the ejector rod. Since these parts must be disassembled for thorough cleaning or rebluing, restaking is a necessary part of proper reassembly, to prevent the ejector ratchet from turning out of alignment in use.

Reassemble the cylinder assembly and ejector ratchet to the ejector rod following the manufacturer's instructions. Support the cylinder with a bench block or the padded smooth jaws of a vise. Line up the punch tip with the factory stake marks and lightly stake the ejector ratchet to the ejector rod using light blows from a 4 or 6 ounce ballpeen hammer.

Reassemble the firearm according to the manufacturer's instructions. Check for proper functioning using **ACTION PROVING DUMMIES**. Make sure **ALL SAFETY MECHANISMS** are fully functional as designed and approved by the manufacturer. If these tests prove satisfactory, test-fire the firearm with live ammunition in a **SAFE** and **APPROPRIATE** manner. **IMPORTANT!** Start the live ammunition tests by first loading an **ACTION PROVING DUMMY**, then a live round, into the magazine. Only after several tests have been conducted in this manner should additional rounds be placed in the magazine and fired.