

# VTUPRS

## VISM Universal Pistol Rear Sight Tool

### Basic Gun Safety Rules

1. Treat all guns as if they are always loaded.
2. Never let the muzzle cover anything you are not willing to destroy.
3. Keep your finger off the trigger until your sights are on the target.
4. Be sure of your target and what is beyond it.

- ❖ PLEASE FOLLOW ALL FIREARM SAFETY RULES. BE SAFE!
- ❖ PLEASE STORE ALL AMMUNITION AND MAGAZINES AWAY FROM WORK AREA WHEN WORKING ON FIREARMS.
- ❖ PLEASE WEAR EYE PROTECTION WHEN YOU WORK ON YOUR FIREARM. FIREARM PARTS MAY BE UNDER SPRING TENSION AND COULD BE EJECTED CAUSING AN EYE INJURY.
- ❖ IF AT ANY POINT YOU ARE NOT COMFORTABLE OR EXPERIENCED ENOUGH TO ADJUST OR REPLACE THE REAR SIGHT OF YOUR SLIDE, PLEASE SEEK HELP FROM A QUALIFIED GUNSMITH.

It's advisable that your work area is well lit and that you have a clean work area. Sweep the floor clean to make finding dropped/ lost parts easier. Be advised that some carpeting may make it difficult to find dropped/ lost parts. You will be working with small parts and during the disassembly of your firearm; some parts may be under spring tension and could be ejected from the immediate area. It's advisable that you cover your work area with an old light colored towel, table cloth, or anything that you would not mind getting dirty to make it easy to find dropped/ lost parts.

- If you do not have a firearm manual for your specific firearm model, visit the firearm manufacturer's website to download or request a manual.
  - Read the firearm's manual on how to safely remove/ field-strip the slide from the pistol frame.
  - Remove the barrel, recoil spring, recoil spring guide, and other small parts from your slide/ frame and set them aside in a safe spot, before using this tool.
  - The Universal Pistol Rear Sight Tool is designed to adjust or replace the rear dovetail sights for most semi-auto slides. It is not designed to adjust the front dovetail sights of a semi-auto.
  - The Universal Pistol Rear Sight Tool is also designed so that it can be clamped/ bolted to a work surface or placed in a vise for stability.
  - Lubricate the Universal Pistol Rear Sight Tool, with a drop of light machine oil onto all the screw surfaces, moving parts, and bushings in the rear sight tool before each use.
1. First step is to lower the tool elevation wheel down to allow you to place the slide under the rear sight pusher legs, to verify tool and slide clearance.
  2. Raise the top slide clamp all the way to the top and make sure that there is a flat plastic insert in the dovetail.
  3. Adjust the two slide side clamps away from the center of the tool, to give you enough clearance for the width of the slide. The two slide side clamps have a choice of two pairs of plastic inserts. A pair of flat inserts for flat profiled slides and a pair of stepped inserts to fit slides with a stepped slide profiles. The stepped inserts can be fitted with the thickest part of the insert either on the top or bottom in the slide side clamps, depending on what fits your particular slide the best. The plastic inserts will help hold the slide in place without marring the finish. You may place some painters/ masking tape onto the slide itself or on the inserts itself for additional protection for the slide finish.
  4. Position the rear sight pusher, so that either the right or left rear sight pusher leg is centered in the tool and is placed over the highest part of your slide, just in front of the factory rear sight for verifying slide and tool clearance.
  5. Place the slide onto the tool elevation wheel with the factory rear sight just behind the rear sight pusher. You will need to adjust the height of tool elevation wheel for the proper height and clearance. Slowly turn the tool elevation wheel to raise the top of the slide up to one of the rear sight pusher legs. You want the rear sight pusher legs as low as possible without the rear sight pusher legs touching the highest part of your slide. Some slides have a crown in them, so make sure that the rear sight pusher legs will not touch the highest point of the slide.
  6. If you are working on a small pocket pistol slide that is not tall enough to reach the rear sight pusher, with the tool elevation wheel all the way up to the highest position. We have included a rectangle plastic riser insert that will work on many modern pocket pistol slides. If the included spacer does not work with your particular slide, you may improvise with any plastic, cardboard, wood, or metal (aluminum) scrap that will raise your slide to the proper height to engage the rear sight pusher.
  7. On each side of the sight tool are witness windows machined through the sides of the tool. This will allow you to verify the clearance of the rear sight pusher legs and the top of the slide. You want at least two business card thickness of daylight clearance from the lowest part of the rear sight pusher legs and the highest part of your slide.

8. Once you have verified that you have some daylight between the rear sight pusher legs and the highest point of your slide, remove the slide from the tool.
9. Center the rear sight pusher in the tool, so that the factory rear sight sits between the rear sight pusher legs.
10. Some factory or aftermarket rear sights may have a set screw in the center of the rear sight. Loosen or remove the set screw from the rear sight, before you attempt to adjust or remove the rear sight from your slide.
11. If your slide is equipped with slide mounted safety/ decocker lever(s), it may be advisable that you first remove the safety/ decocker lever(s) first, if they can be easily removed. If you choose to leave the slide safety/ decocker lever(s) in place, be careful about over tightening the slide side clamps and that you don't damage the lever(s) when you tighten the slide side clamps.
12. Place the slide onto the tool elevation wheel. Place the slide in the tool, so that the factory rear sight are between the rear sight pusher left and right legs. Lower the top side clamp (with plastic insert) and clamp the top of the slide down to prevent the slide from pivoting front to back. Tighten the two slide side clamps (with the plastic inserts) onto the sides of the slide to hold the slide in place.
13. Check the side witness windows to verify that you have the proper rear sight pusher tool alignment and that you have enough clearance between the rear sight pusher legs and your slide.
14. Most semi-auto rear sights are dovetailed into the slide, to allow you to drift the sights left or right for zeroing. Some of the rear sight dovetails may also have a taper in the dovetail. Where one side of the dovetail is slight narrower than the other. So, please check online to make sure and verify from which direction you should remove and install the rear sights. Most modern defensive handguns have the rear sights install from left side of the slide to right. So for removal, you would have to remove the rear sight from right to the left side of the slide.
15. Caution – some semi-auto slides have a firing pin or magazine safety plunger, spring, and plate located just under the rear sight. As you drift the rear sight in the slide dovetail, these parts may be under spring tension and could be ejected from the work area. Take precautions, so that you don't lose/ misplace a part. Wear safety eye protection.
16. Turn the rear sight pusher tool to drift the rear sight. Keep checking the clearance of the rear sight pusher legs and slide clearance to make sure you have enough clearance. If the rear sight pusher leg makes contact with the slide, you will mar/ scratch the top of the slide. Slowly drift the rear sight a little bit at a time until the rear sight is drifted off the dovetail of the slide.
17. For tight and stubborn rear sights, you may try some penetrating lubricant to make it easier to drift the rear sight. Let the penetrating lubricant soak in for several minutes, before drifting the rear sight. If you feel too much resistance drifting the rear sight, you may be drifting it in the wrong direction (is the dovetail tapered?).
18. It's best that you just use your hands when using this tool to get a better feel of how the rear sight drifting is progressing. Use caution if you use a wrench or ratchet when drifting the rear sight, you don't get the same feel as if you were just using your hands. You can cause damage to the finish of the slide, if you use a hand tool. Never use a power tool with the Universal Pistol Rear Sight Tool.
19. After the rear sight has been drifted out of the dovetail from the slide, remove the slide from the tool. Inspect the dovetail and clean the dovetail before installing the new rear sight.
20. If the new rear sight is equipped with a set screw, make sure the set screw does not protrude below the rear sight base or remove set screw for now before installing it into the dovetail.
21. If your slide was equipped with a firing pin or magazine safety components under the rear sight. Reassemble the parts into the slide and the slide the new rear sight in the dovetail to hold the components in place. Be careful to not pinch or damage the spring with the rear sight, as it is drifted back onto the slide dovetail.
22. You can usually take the new rear sight and press it into the dovetail with your fingers. You can sometimes press the new rear sight a third to almost halfway into the dovetail with your fingers alone. Make sure that the rear sight is going straight in the dovetail and that it isn't crooked. Make sure that you also have inserted the new rear sight in the proper orientation. If the new rear sight does not fit into the dovetail correctly, do not force it into the slide. You may have the incorrect new rear sight for your specific model.
23. You may have to readjust the rear sight pusher to align with the new rear sight as it sits on the slide.
24. Secure the top and slide side clamps onto the slide to secure the slide in the tool. Verify the alignment of rear sight pusher and tool & slide clearance.
25. Slowly drift the rear sight to the center of the slide with the rear sight pusher.
26. A small flashlight to shine onto both sides of the rear sight and dovetail slot to check that the dovetail gap is symmetrical on both sides may be helpful. You may have to remove and reinstall the slide from the tool a few times to check that the rear sight is centered in the dovetail of the slide.
27. When you are happy with the position of the rear sight, make sure to install/ tighten any set screw that the rear sight may have come with.

Please check NcSTAR's YouTube Channel (<https://www.youtube.com/NcSTARInc>) for a video on how to use the Universal Pistol Rear Sight Tool.

If you have any questions, please feel free to contact NcSTAR's Tech Support line: 1-866-627-8278