

RETICLE-TRU™ Alignment Device

US Patent # 8800154

Additional Instructions and Helpful Tips

- * When using the RETICLE-TRU, in certain situations it may be necessary to remove the bolt from the action of the firearm.
- * In order to use the RETICLE-TRU effectively, it is most ideal when the mounts and rings are correctly installed in a manner such that the axis of the scope is ultimately in parallel alignment with the axis of the firearm—this is crucial, as the indicators of the device depend upon indexing on certain specific reference points on the central axis of the firearm.
- * When placing your scope on the ocular seat of the RETICLE-TRU, orient the initial positioning of the device so that the top indicator is closely in alignment with the elevation turret before stretching the elastic band around the ocular. This will assist in preventing the elastic band from “pulling the device” in a slight rotational manner on the ocular—a situation that can make it more difficult to fine tune the final position of the RETICLE-TRU so that ultimately the vertical crosswire is precisely vertical within the center of the RETICLE-TRU window.
- * If your scope has a focus ring on the rear ocular that is greater in diameter than the ocular itself, it can cause the device to pivot on that highpoint. To remedy this, grab the elastic band at the 12 o’clock position on the scope, and slightly pull the elastic band towards the turret. This will force the flat face of the RETICLE-TRU to remain tightly against the rear ocular.

The RETICLE-TRU Alignment Device may be used in any of the following THREE methods:

- ***PRIMARY METHOD – the installer will utilize both top and bottom indicators on the RETICLE-TRU. Both indicators are centered on the specific reference points as outlined on the first page of instructions having the title heading: Instruction Sequence—Ten Easy Steps. This is the preferred way to use the device.***
- ***SECONDARY METHOD – the installer will utilize only the bottom indicator on the RETICLE-TRU. This indicator is centered on a specific reference point chosen by the installer. Though this method may take less time, it may not be as accurate as the primary method where both top and bottom indicators are utilized simultaneously.***
- ***AUXILIARY METHOD – the installer will utilize only the bottom edge on the RETICLE-TRU. If the mounting base on the firearm—whether a one-piece base, or two-piece bases—has a flat surface that provides the appropriate amount of room on the top of the base, the installer may perform the following:***

Lay a short, straight ruler or straight-edge that is about 6 inches long across the flat of the base. In some cases the installer could also use a short, straight section of a cleaning rod. Place the item so that there is an equal amount of the straight-edge protruding out on each side of the mounting base. Make sure to position it so that the straight-edge is firmly touching the rear face of the forward scope ring. The straight-edge is now squared at 90 degrees to the axis of the firearm. Next, simply rotate the scope and RETICLE-TRU combination, so that the bottom edge of the RETICLE-TRU is exactly parallel with the straight-edge sitting on the base. When the straight-edge appears to be perfectly parallel with the bottom edge of the RETICLE-TRU, place the ring caps on the scope, and tighten the screws to the specifications recommended by the manufacturer—and the job is finished.

Though the use of this method may be limited by the availability of a suitable flat surface provided by the mounting base, the Auxiliary Method can be helpful in certain situations where the scope axis may be somewhat off-center with respect to the firearm axis. This unfortunate situation may be caused by minute variations in the machining tolerances of the firearm receiver, eccentric variations in the machining of individual base and ring systems, careless installation and adjustment of the bases and rings during the scope mounting procedure, and numerous other contributing issues.