

SCOPE-TRU™ ALIGNMENT BAR

US Patent # 8745914

Using the SCOPE-TRU™ to CHECK the alignment of additional mounting systems

The SCOPE-TRU™ ALIGNMENT BAR was designed and developed *primarily* as a tool to be used to install and align “dovetail front/windage rear” style rings; and, to install and check the alignment of “dovetail front/dovetail rear” style rings. However, the **Scope-Tru™** can also be employed to *check the alignment* of other ring and base systems. *One can use the Scope-Tru™ to determine if “both rings are properly aligned with each other,” while at the same time, “watching the front pointer to determine if both of the mounted rings are properly aligned with the axis of the bore.” The advantage in using the Scope-Tru™ at this stage of the mounting process—before the scope is mounted—is that the installer can immediately determine problems that might otherwise be discovered much later, using either a collimator, or shooting out at the range.* Using the **Scope-Tru™** to check the ring alignment on other mounting systems is very effective, and the results can be very “shop-time friendly,” thereby reducing valuable labor time.

Weaver removable style rings and Picatinny ring systems: After mounting the base, or bases to the receiver, position only the bottom half of the front and rear rings. Place the **Scope-Tru™** into the bottom of the rings, and press down on the tool between both rings, and while holding it down, very lightly snug each of the nuts on the rings. Next, stand behind the rifle, and line up the rear pointer of the tool on the tang, bolt plug, or the groove in the tang, so that it is “centered.” Now, observe the front pointer of the tool, checking to see if it is centered on the barrel—watch to see if there is an *equal* amount of barrel showing on either side of the *reduced diameter cylinder*. If everything is centered, tighten the nuts to the torque specified by the manufacturer, and then remove the tool. You are ready to mount the scope. If the front pointer of the tool is not centered on the barrel, try turning both rings around 180 degrees—or, in cases where it is possible—exchange the position of the front ring with the position of the rear ring. Once again, check the “ring and barrel axis alignment” by using the **Scope-Tru™**. Some situations may require different bases, rings, or the services of a gunsmith to bring about an acceptable alignment.

Talley one-piece scope mounts: Loosely mount the base/ring combination to the receiver. With the ring caps removed, place the **Scope-Tru™** into the bottom half of the rings—the tool may not go all the way down into the ring—this is ok. Next, stand behind the rifle, and line up the rear pointer of the tool on the tang, bolt plug, or the groove in the tang, so that it is “centered.” Now, observe the front pointer of the tool, checking to see if it is centered on the barrel—watch to see if there is an *equal* amount of barrel showing on each side of the *reduced diameter cylinder*. If everything is centered, very carefully remove the **Scope-Tru™** and tighten down the mounting screws, being careful to do so without disturbing the positions of the one-piece rings. Place the tool back into the rings and check the alignment. If everything is nicely centered, proceed by mounting the scope. If the front pointer of the tool is not yet well centered on the barrel, it may be necessary to see a competent gunsmith.

Ruger original factory rings: Place the bottom half of the front and rear rings into their slots on the receiver. Lay the **Scope-Tru™** into the bottom of the rings. Press down on the tool between both rings, and while holding it down, very lightly snug each of the knurled nuts on the front and rear rings. Next, stand behind the rifle, and line up the rear pointer of the tool on the tang, bolt plug, or the groove of the tang, so that it is “centered.” Now, observe the front pointer of the tool, checking to see if it is centered on the barrel—watch to see if there is an *equal* amount of barrel showing on each side of the *reduced diameter cylinder*. If everything is centered, remove the tool and mount the scope. If the front pointer is not centered, one may need to obtain a different pair of rings.