



STD BASES & RINGS MOUNTING INSTRUCTIONS

MOUNTING INSTRUCTIONS FOR LEUPOLD® STD™ BASES

IMPORTANT: Please read these instructions completely before beginning. Check to ensure that the magazine of the firearm has been removed or emptied, that the action is open, and that there is not a round in the chamber. Only after double checking to make sure the firearm is unloaded and safe should you proceed with the installation of the base or rings.

NOTE: Use a good gun solvent and rag to remove all traces of oil and grease from the contact surfaces of the rings, base, receiver, and threaded holes. Do not remove the light gray factory-applied lubricant from ring dovetails or base-socket mating surfaces.

1. Secure the rifle in a padded vise, set the bases on the receiver and align the mounting holes.
 - Windage screws should be at the rear of the action and facing toward the muzzle, on 2-Piece bases.
 - Be sure, when installing 2-Piece bases, that the position of the rear base does not interfere with the operation of the bolt.
 - The action, length of the scope, and turret location can dictate where rings fit, so check their relative positions by measuring or holding the scope over the bases. Allow ample space on either side of both rings to allow for later eye relief adjustments.

CAUTION: Overtightening can cause damage.

- For 2-Piece bases, a reversible front and/or rear base set can be used to achieve proper ring spacing. Extension rings are available for 1-Piece and 2-Piece bases.
2. Secure the base to the receiver, with the Torx® screws and driver. Tighten 6-48 screws to 22 in-lbs and 8-40 screws to 28 in-lbs.
 - Due to the superior performance of Nylok® and the Torx drive system, the use of an additional thread locker (such as Loctite®) is not necessary. No gun oil should be applied to the screw threads.
 - When screws are properly torqued, check to make sure that they do not extend all the way through the receiver to interfere with the bolt.

CAUTION: Tighten Ruger 10/22 screws to 12-15 in-lbs.

CAUTION: Tighten Browning X-Bolt screws to 18 in-lbs.

NOTE: If a scope has insufficient windage or elevation adjustment, the problem is generally due to barrel-to-receiver misalignment. In these cases, the following options are available for correction:

- Shimming the front and rear base or recentering the scope.

MOUNTING INSTRUCTIONS FOR LEUPOLD® STD RINGS

1. If you have a Leupold Ring Wrench, insert the dovetail of the front ring into the socket at the front of the base. Then use the Ring Wrench to gently rotate the ring bottom 90°, which brings it into alignment with the axis of the rifle.
 2. Lacking a Ring Wrench, assemble the front ring onto a short piece of one-inch dowel. Then, holding the dowel at 90° to the axis of the rifle, set the ring dovetail into the socket at the front of the base. When completely seated, gently rotate the dowel until it is aligned with the axis of the rifle. Finally, loosen or remove the ring top to free the dowel.
 3. To install the rear ring, use the supplied Torx® driver to loosen the windage adjustment screws on the base. Set the bottom of the rear ring onto the base, then tighten the screws to 45 in-lbs ensuring the ring is centered.
 - Due to the superior performance of Nylok and the Torx drive system, the use of an additional thread locker (such as Loctite) is not necessary. No gun oil should be applied to the screw threads.
- NOTE:** Lay the scope in the rings. If it does not drop freely into place, a slight adjustment of the ring alignment may be necessary.
4. When you are satisfied with the ring alignment, put the scope in the ring bottoms.
 5. Loosely assemble the ring tops on the ring bottoms and scope, using the Torx screws and driver.
 6. Shoulder the rifle in your normal shooting position, with the scope as far forward in the rings as possible. Slowly move the scope rearward, but just to the point where you can see the full sight picture. This is your optimal eye relief.
 - If you are mounting a variable power scope, use the highest magnification setting to establish proper eye relief.
 7. Check the vertical crosshair to make sure it is aligned with the vertical axis of the rifle.
 8. When the scope is aligned with the rifle, tighten the ring screws with the Torx driver to 28 in-lbs max. There should be an equal gap on both sides of the rings.
 9. With STD bases, make initial windage adjustments during bore sighting by turning the large screws at the rear of the base. Once bore sighted, tighten to 45 in-lbs. (Avoid overtightening these screws.) Use the scope's internal adjustments for final sight-in.

Contact Leupold Technical Service at Leupold.com or 1-800-LEUPOLD for more information.

