


RU-1001-5 scope rail for Ruger 10/22's with factory barrel

Includes rail, ghost ring rear sight, front sight, test posts and mounting hardware

Tools Need: non-marring punch (brass, delrin, nylon), hammer

1. Unload firearm
2. Remove the 4 plug screws from the receiver top.
3. Tap factory rear sight from its dovetail with a hammer and a non-marring punch.
4. Fit mounting pillar block into dovetail slot. If it does not slide in, use a fine file or emery paper to remove steel from the bottom of the pillar block until it will enter the dovetail halfway. Only take a pass or two at a time between testing fit in the dovetail slot.
5. Place scope mount onto receiver top and install the front 3 screws followed by the ghost ring rear sight with its attaching screw. Tighten down to 20-25 INCH-pounds of torque.
 *Torque specs are given in INCH-pounds, not the more common FOOT-Pounds. 25 or 30 INCH-pounds of torque is about what a good, firm handshake has. Over torquing screws can cause the threads in the aluminum receiver to strip out.*
6. Insert the 2 shorter Allen screws into their respective holes in front of and behind the pillar nut slot.
7. Tighten these down until they just touch and no farther.
8. Install the longer Allen screw into the pillar block and lightly tighten.
9. Place Pillar nut onto pillar screw and tighten approximately 25-30 INCH-pounds.
10. Remove factory front sight and install the shorter of the two plastic test posts.
These test posts are to be used before installing the steel front sight to verify that the supplied height front sight will work with customer's individual rifle/ammo/shooter combination.
11. Keep the aperture centered 3-4 revolutions up from the bottom and go shoot.
 - a. Happy with the zero? Use the steel front sight supplied and skip to #12.
 - b. Shooting high? Install the taller test post and shoot again.
 - c. Shooting low? Break off a piece of the test post and shoot again.
 - d. Once happy with the zero, return test post with UNFITTED front sight and XS will exchange for the correct height.
12. Clean the factory dovetail until smooth (Q-tip, toothbrush, file as necessary).
13. Slide the sight into the dovetail. Entry side does not matter; test both sides to find the best fit. If it goes in at least half way, or loosely slides through, skip to 16. Friction fit is not necessary.
14. Using a fine file or emery paper on a flat surface, remove steel from the bottom of the sight until it will enter the dovetail halfway. (See Figure 1) Do not file the dovetail shorter than the depth noted in Figure 2. If the sight still does not fit, but you have reached the minimum height, move to step 15; otherwise, skip to step 16.
 - a. Figure 1 (flat file w/ sight – 2xs → and 2xs ←)
 - b. Figure 2 (female dovetail slot in rounded slide next to male dovetail w/ vertical measuring lines)
15. Using an angled dovetail file, file on the angled faces of the dovetailed portion of the sight until the sight enters halfway.
 - a. 65° 1911 Dovetail Type Slot Straight Base file 080-648-265WB
 - b. 60° Dovetail Slot sight base file 080-648-260WB
16. Remove the sight. Degrease the slot and the sight.

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17. Apply blue threadlocking compound to all mating surfaces. **Blue threadlocker is a necessary component of our sight installation process - sights can fall off without the use of blue threadlocker.*
18. Install the sight using a non-marring punch.
19. Let sit for 10 minutes, and then lightly remove the excess clumps of blue threadlocking compound with a Q-tip. In this initial clean-up, do not clean aggressively, as you will remove the compound from the joint. Let it set for 3 hours.
20. Wipe sights down with protective oil in a light coating to prevent potential rust issues.