

Bolt Lock with Auto-Release (PN 02.100) **for**

o **Ruger® 10/22® Systems**

Thank you for choosing a high-quality **TECTAL** product!

This product has been 100% engineered and “Made in Austria” to replace standard parts, offering the following benefits:

- ✓ **The *TECTAL bolt lock / auto bolt release* features a unique *actuating tab****
 - o designed for reliable and comfortable operation under all conditions
 - o easy to locate by feel
 - o conveniently accessed and operated when compared to the standard, thin sheet metal bar, especially if an extended magazine release is used



Supplied Parts:

- 1 pc. *TECTAL bolt lock / auto bolt release with actuating tab** (PN 02.100)
- 1 pc. grip tape disc

The following references to and only supplements the OEM manual.

Especially note all the handling and safety instructions contained therein which apply regardless!



The *actuating tab** may require a minor modification of the stock for proper clearance during assembly – see “Installation”, p.9/10”.

OPERATION

- To engage the bolt lock
 1. pull the bolt to the rear with the charging handle
 2. press the *actuating tab** up and in its full travel



3. let the bolt carefully forward until it catches on the bolt lock by which it will be retained in its rearward position, allowing for inspection of the chamber, access for cleaning etc.

WARNING: At that time the hammer is cocked! ALWAYS engage the SAFETY!

- To release the bolt lock, activate the auto release feature by
 1. pulling the charging handle fully to the rear allowing the bolt lock to retract and then
 2. simply releasing it. Do not “ride” the charging handle forward!

WARNING: At that time the hammer is still cocked! ALWAYS engage the SAFETY!

INSTALLATION

GENERAL NOTES – Warnings:



- Installation can be accomplished by the owner - if in doubt, have your gunsmith install the part for you!
- As the installation involves spring loaded parts always wear quality safety eye glasses to prevent eye injury!
- The bolt lock / auto bolt release is a bolt hold open device NOT A SAFETY!

If the firearm is dropped or hit with sufficient force the auto release feature may release the bolt. When the bolt is pulled to the rear the hammer is cocked - ALWAYS engage the SAFETY.

- The use of any aftermarket product in your firearms may limit or void the manufacturer's warranty.

SET-UP for the INSTALLATION

NOTE: For parts nomenclature – marked by underlining – please refer to the Ruger® manual.

1. **Before maintaining or working on any firearm always ensure that it is unloaded and safe!**

While pointing the firearm in a safe direction remove any magazine from the firearm and ascertain it is unloaded by locking the slide to the rear and visually inspecting the chamber before working on or cleaning it! If loaded follow the proper procedures to unload the firearm safely!



Firearms Safety is your responsibility!

2. Follow the general disassembly procedure as per the Ruger® manual to access the trigger group for installation of the TECTAL bolt lock / auto bolt release!

NOTE: The bolt must NOT be removed for the installation!

3. Drift out the two large receiver cross pins and remove the trigger group from the receiver / barrel assembly
4. Note the position of the parts in the trigger group, then drift out the small top and bottom pivot pins indicated by the circles below:



NOTE: DO NOT remove the hammer pivot pin or the trigger pivot pin!

5. Remove the now loosely retained components from the trigger group in the following order:
 - a. Magazine latch which in turn releases the magazine latch plunger and spring:
The plunger is under spring tension retaining the latch – press inwards on the plunger, maintain pressure and withdraw the latch from the bottom. Then release the plunger slowly and remove it together with the spring.
 - b. Standard bolt lock and ejector:
Withdraw the standard bolt lock and the ejector from the top of the trigger housing. The bolt lock spring is under tension which will then be released. It will not drop out as it is still retained by the hammer pivot pin.

When finished you will have the following parts in front of you:

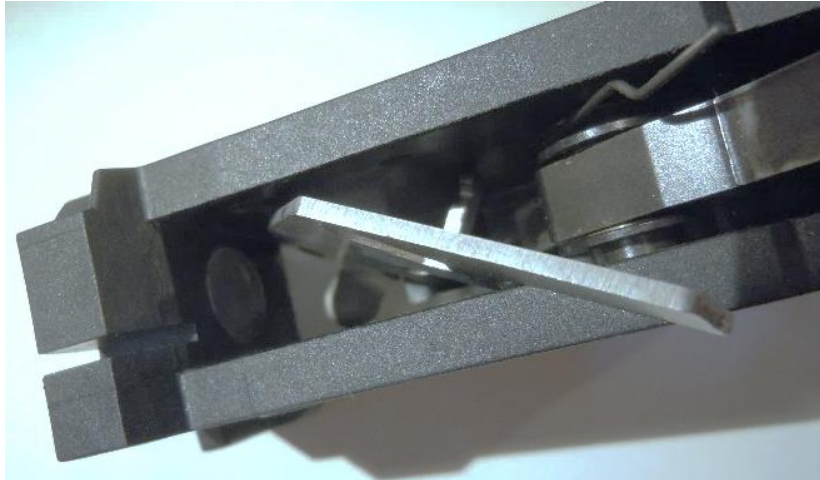


INSTALLATION of the TECTAL bolt lock / auto bolt release

6. Rotate the bolt lock spring so that the **curved leg** points upwards / backwards towards the hammer.



7. Slide the bolt lock carefully into the trigger housing from the top. The *actuating tab* * will require insertion at an angle until it clears the bottom of the trigger housing - then the component can be correctly positioned.

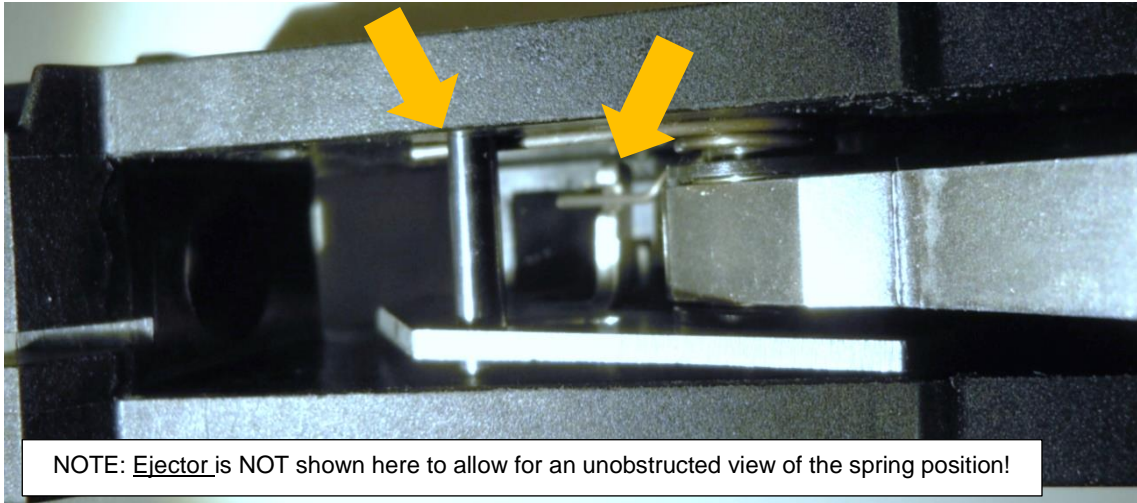


8. Once the bolt lock is in position rotate the **curved leg** of the bolt lock spring down and ensure it rests in the small groove of the perpendicular arm of the bolt lock (see picture step 9 / p.8).
9. Insert the top pivot pin
 - a. first through the trigger housing and the top aperture in the TECTAL bolt lock / auto bolt release,
 - b. through the ejector

NOTE: Ensure the ejector is oriented correctly.

- c. then slightly bend the straight leg of the bolt lock spring down so that the pivot pin passes over it thereby obtaining a spring preload and
- d. finally press the free end of the pivot pin into the trigger housing ensuring it is flush with the trigger housing side faces.

Correctly installed it will look like this with the top pivot pin retaining the bolt lock, the curved leg of the bolt lock spring sitting in the groove and the necessary spring pressure being maintained:



10. Install the magazine latch mechanism in reverse order of step 5a. When executed correctly the magazine latch mechanism will now retain itself.

11. Insert the bottom pivot pin
 - a. first through the trigger housing and the elongated hole in the bolt lock,
 - b. then through the hole in the magazine latch and
 - c. finally press the free end of the pivot pin into the trigger housing ensuring it is flush with the trigger housing side faces.

NOTE: A drift punch of smaller diameter can be used to aid in lining up the components before insertion of the bottom pivot pin.

12. Re-install the completed trigger group as shown below, in the receiver / barrel assembly with the two large receiver cross pins.



13. Mounting the trigger group / receiver / barrel assembly to the stock

Interference of the *actuating tab of the TECTAL bolt lock / auto bolt release with the stock during reassembly**

Great care has been taken to avoid undue interference of the *actuating tab** of the TECTAL bolt lock / auto bolt release with the stock during reassembly - aided by the generous tolerances of typical components.

Individual fitment will however depend on the actual stock used!

DO NOT FORCE the receiver / barrel assembly into the stock to avoid damage to the components!

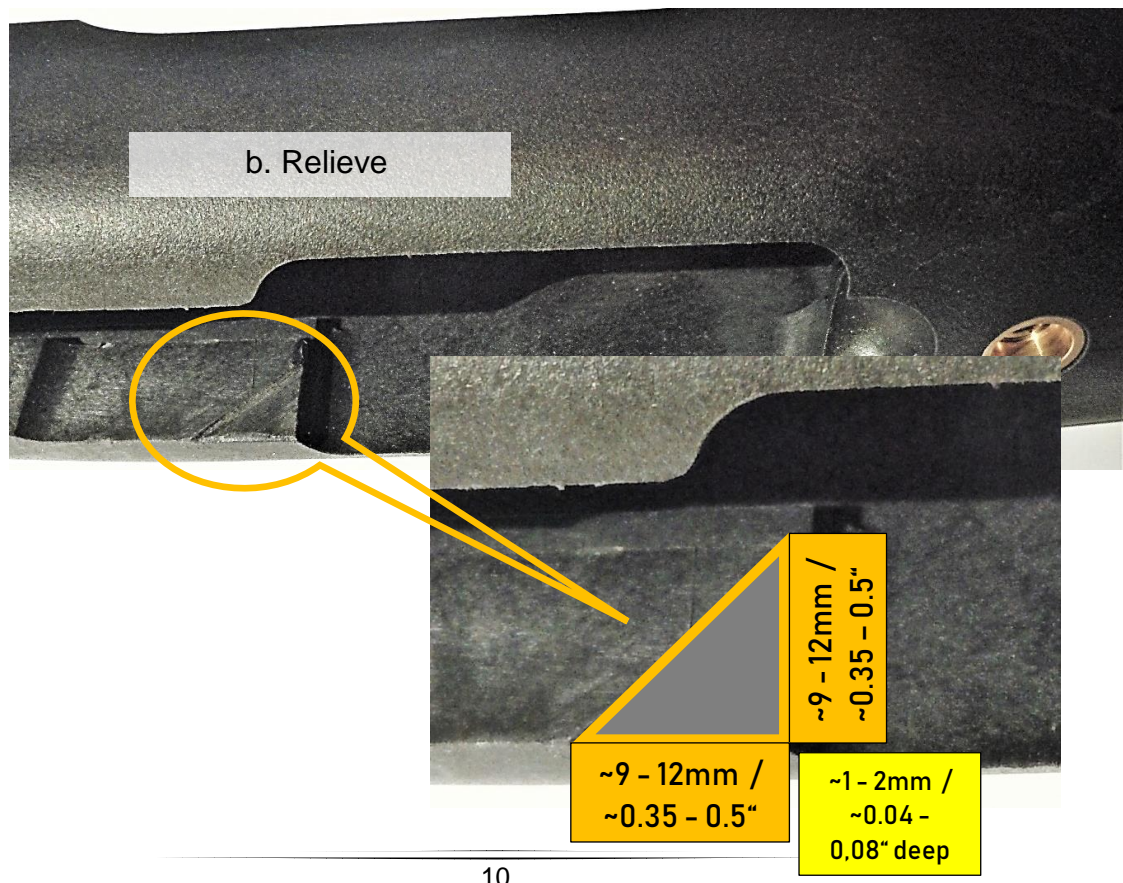
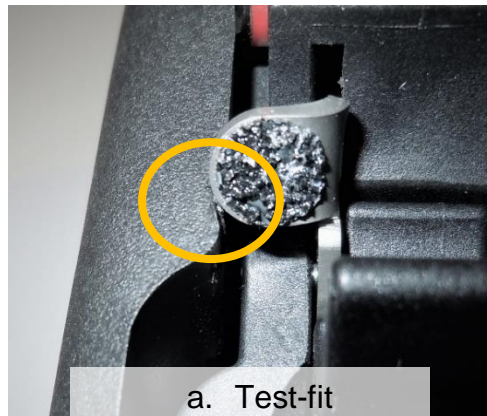
To check and correct if the *actuating tab** should interfere with your particular stock:

- a. Test-fit carefully

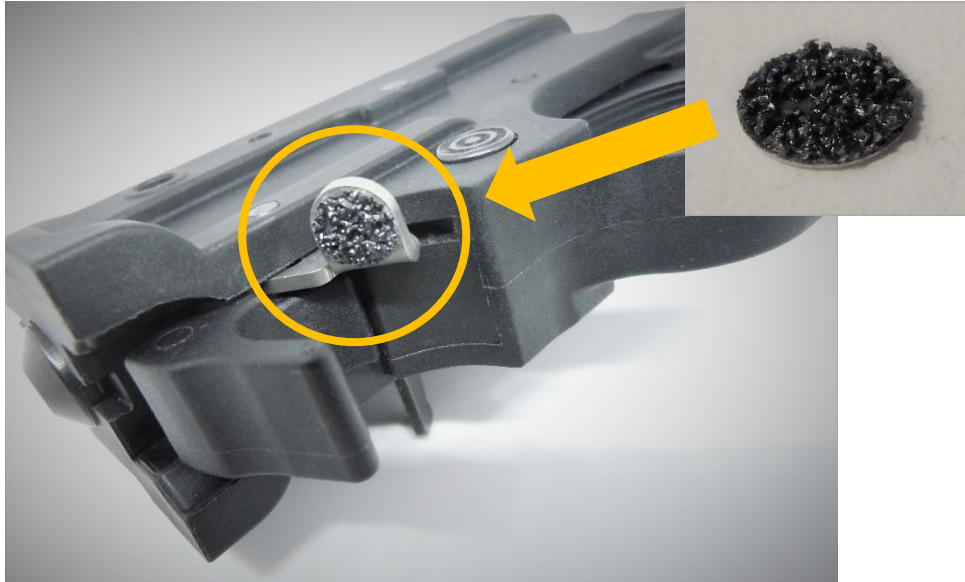
If interference is detected as shown below...

- b. very carefully relieve a small – typically triangular - section of the stock at the back of the mag well. *The measurements are guidelines only!*

- c. test-fit again and continue as required



14. Finish of the installation by optionally applying the provided grip tape disc to the *actuating tab** further enhancing operating reliability and comfort.
For optimum results degrease the *actuating tab** before application of the grip tape.



15. Test the *TECTAL bolt lock / auto bolt release* for correct function after reassembly by locking the bolt to the rear and releasing it several times.

WARNING: During function test the hammer will be cocked!

**In case of any questions please contact us at
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