# *Recoil Spring Guide Rod with Retaining Block and Buffer (PN 04.112)* for

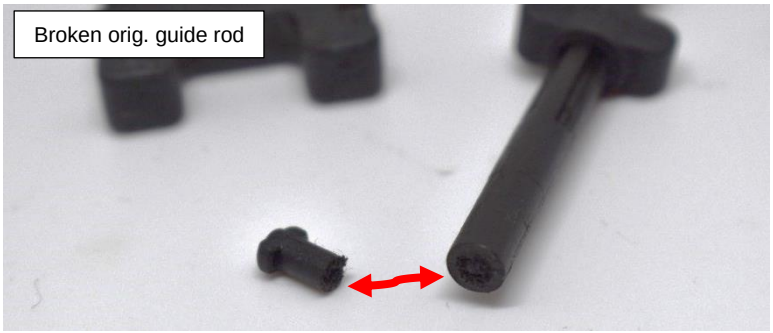
- **Beretta CX4 Storm**

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

The recoil spring guide rod kit is 100% “Made in Austria“ and offers the following benefits:

✓ Improved reliability
As the *TECTAL recoil spring guide rod* is made of steel the risk of breakage is practically eliminated.

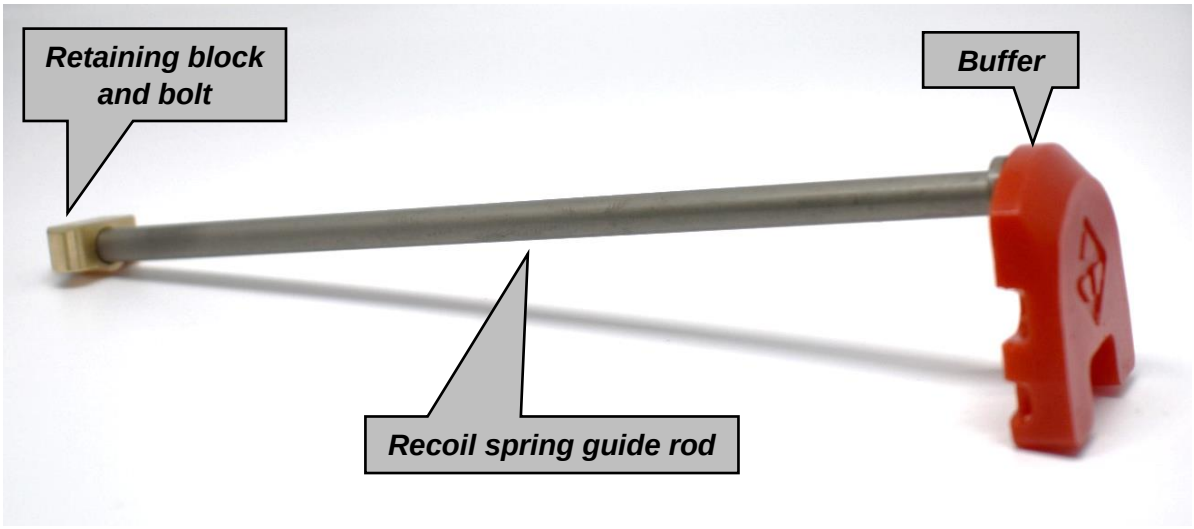
➔ The original plastic guide rod is known to brake at the diameter change where it meets the buffer. This effectively renders the gun unserviceable!




✓ Increased longevity
The *TECTAL recoil spring guide rod* is made of special, surface hardened steel to considerably decrease wear and friction in contact with the recoil spring and the retaining block made of bearing bronze.

➔ Alternative products wear comparatively fast due to “cutting corners” in the execution.

The buffer consists of PU with improved damping characteristics compared to the original part and is highly resistant against mechanical damage and the effects of chemicals used in association with guns (gun cleaners and oils etc.). If ever required the buffer can be easily replaced.




Parts supplied:

- 1 pc. *TECTAL Recoil Spring Guide Rod with Retaining Block & Bolt and Buffer PN 04.112*

*It is recommended to have PN04.112 installed by a gunsmith.*

Required Tools:

- Allen head key 2,5mm
- Bench vice
- Protective vice inserts (braces) made of aluminium or plastic

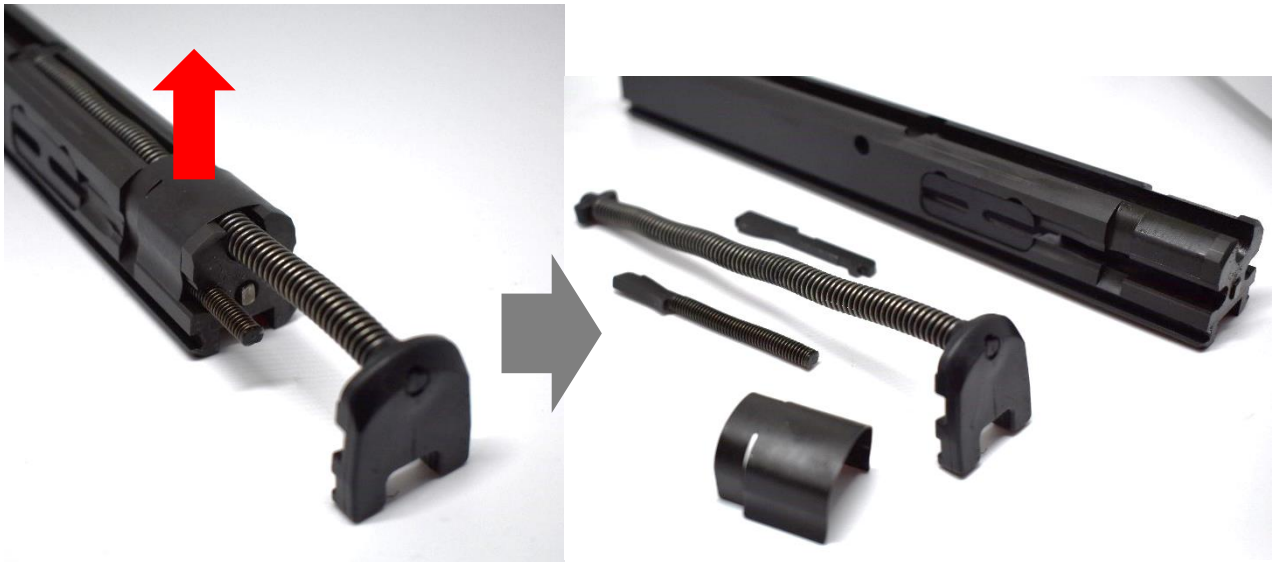
# INSTALLATION - PREPARATION

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. Separate the upper receiver from the lower receiver as per the original instruction manual.

3. Remove the bolt assembly from the upper receiver after having taken out the charging handle as per the original instruction manual.

4. Take off the spring clip on the back of the bolt assembly by pulling upwards and remove the recoil spring guide rod assembly.



Picture shows ejector / extractor configured for right-hand ejection

*At this stage it is recommended to note the position of the extractor and the ejector - which may be configured for either right-hand or left-hand ejection - as these will be loose after the removal of the spring clip and may be inadvertently swapped during later reassembly!*

***CAUTION:*** *The recoil spring is under considerable tension. During the subsequent steps always expand and compress the recoil spring in a careful and controlled manner. It is strongly recommended to wear protective glasses during the following disassembly and installation process!*

5. Disassemble the original recoil spring guide rod with recoil spring. To do so:

    a. Support the end of the guide rod opposite from the buffer on a stable surface
    b. Retract and retain the recoil spring so that the buffer is not under spring tension
    c. Push the buffer slightly in the direction of the recoil spring (which is maintained in its retracted position) and rotate the buffer 90° to release the bayonet lock
    d. Remove the buffer
    e. Release the recoil spring <u>slowly in a controlled manner</u>

# INSTALLATION

1. Clean the recoil spring

2. Disassemble the loosely pre-assemble *TECTAL recoil spring guide rod* (remove *retaining block and bolt*)

3. Apply a light film of gun oil to the *guide rod* and securely clamp it at the rear shoulder in a bench vice equipped with protective inserts to avoid marring or deforming the shoulder

4. Place the recoil spring on the *guide rod*

5. Compress the recoil spring far enough to slide the *retaining block* onto the guide rod and to fasten the *retaining bolt* securely.

   Completely tighten down the *retaining bolt* with a max. recommended torque of 3Nm.

   The *retaining bolt* should be secured with Loctite 243 (blue) or a comparable, non-permanent thread locker to ensure bolt retention while maintaining removability for maintenance. Observe the manufacturer's instructions for the correct use of the thread locker!

***Note:***

*Use the thread locker sparingly (~ 3 to 4 thread turns; do not cover the whole threaded length of the bolt!) to ensure that the retaining bolt can be unthreaded again for maintenance!*

6. Place the *buffer* onto the rear shoulder of the *recoil spring guide rod*

7. Complete the reassembly of the bolt assembly and the gun in reverse order of disassembly

***IMPORTANT NOTE:***
***As the TECTAL buffer is removeable compared to the original the hammer in the lower must be cocked during disassembly and reassembly of the gun!***

***This ensures that the buffer is not inadvertently pulled of the recoil spring guide rod during the separation or assembly of the upper and lower!***

# NOTES ON INSTALLATION, USE AND MAINTENANCE

## INSTALLATION AND USE

**It is recommended to have PN 04.112 installed by a gunsmith.**

**It is strongly recommended to wear protective glasses during the disassembly and installation process! The recoil spring is under considerable tension.**

**As the *TECTAL buffer* is removeable compared to the original the hammer in the lower must be cocked during disassembly and reassembly of the gun to avoid pulling of the *buffer*.**

## MAINTENACE

The components of PN 04.112 together with the recoil spring shall be cleaned regularly and the *recoil spring guide rod* then coated with a light film of gun oil to minimise wear and friction between spring, *retaining block* and *guide rod*.

At this point the proper tightening of the retaining bolt shall be checked resp. restored following a complete disassembly for maintenance.

It is neither necessary nor recommended to use aggressive solvents or abrasive tools for cleaning!

## SURFACE OF THE RECOIL SPRING GUIDE ROD

When new the recoil spring guide may show a grey, mottled appearance due to the heat treatment process. This does not affect durability or function.

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## In case of any questions please contact us at

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