

## ***Tungsten-Hybrid Recoil Spring Guide Rod with Aluminium Recoil Spring Bushing (PN 01.103A) for***

- **CZ Tactical Sports Orange, Gen. 1 (9x19)**
- **CZ Tactical Sports 2 (9x19)\***

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

The *Tungsten-Hybrid Recoil Spring Guide Rod with Aluminium Recoil Spring Bushing (PN01.103A)* is based on the proven 1<sup>st</sup> generation design, has been 100% engineered and “Made in Austria” and replaces the standard guide rod and plastic sleeve in the a.m. pistols. The product offers the following benefits:

- ✓ Increased static weight near the muzzle due to the Tungsten part of the guide rod, which dampens the muzzle rise by 7%\*\* and improves the sight picture resp. decreases the movement of the pistol for precise and quick follow-up shots. The weight of the complete guide rod is 2,5 times that of the original part
- ✓ Increased wear and temperature resistance
- ✓ Easy assembly and disassembly of the gun – considerably reducing the risk of damage to the pistol as may happen with the original plastic bushing due to its imprecise and very tight fit requiring the use of (substitute) tools



### Scope of Supply:

- 1 pc. *TECTAL Tungsten-Hybrid Recoil Spring Guide Rod*
- 1 pc. *TECTAL Aluminium Recoil Spring Bushing*

\* *Not suited for CZ Tactical Sports 2 Orange with bull-barrel*

\*\* *Based on 124gr FMJ RN factory ammunition*

**Required tools:**

- Center punch / round assembly tool with 2mm diameter to retain the rear part of the guide rod
- Flat, hollow-ground screw driver bit (2mm thick, max. 6mm wide) to tighten and loosen the front part of the guide rod, preferably used in combination with a torque screwdriver

*As an expedient means to quickly unscrew the two parts of the guide rod in the field a second center punch / round assembly tool with 2mm diameter may be used. High and / or repeated application of force via the auxiliary hole in the Tungsten front part of the guide rod is not recommended to avoid damage in this area.*

## INSTALLATION

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. For disassembly and reassembly of the pistol follow the CZ instruction manual, chapter „Maintenance Instructions” and replace
  - the original plastic bushing by installing the *Aluminium Recoil Spring Bushing*
  - the original plastic recoil spring guide rod with the *Tungsten-Hybrid Recoil Spring Guide Rod*

during re-assembly as follows:

- a. **Insert the *Aluminium Recoil Spring Bushing* into the bushing bore of the slide**

*By design the Aluminium Recoil Spring Bushing has little to no play when installed to ease mounting and dismounting. Any play results from the variances in the execution of the bushing bore in an individual pistol and has no effect on proper function*



**b. Install the *Tungsten-Hybrid Recoil Spring Guide Rod* in the slide**

It is strongly recommended to **lightly lubricate the guide rod and recoil spring** with a suitable gun oil during initial installation and every subsequent maintenance cycle to minimise friction and wear between bushing, guide rod and recoil spring!

The *Tungsten-Hybrid Recoil Spring Guide Rod* is manufactured as a two parts „full-length guide rod“ to optimize mass distribution. Consequently, the installation is done in 2 steps:

- I. Insert the rear part of the guide rod with the recoil spring and – if used – the buffer into the slide**

**NOTE:**

*If recoil springs with a smaller diameter on one end are used then the end with the smaller diameter must be located on the flanged side of the recoil spring guide rod away from the muzzle i.e. underneath the chamber.*

**II. Install the front part of the guide rod by inserting it through the installed *Aluminium Recoil Spring Bushing* from the front / muzzle end and threading it into the rear part.**

- Retain the rear part of the guide rod with a center punch / round assembly tool with 2mm diameter.
- Tighten the front part of the guide rod with a flat, hollow-ground screw driver bit.



**NOTE:**

- The front and rear part must **not be threaded together off-centre or canted** to avoid undue damage to the threads.
- Use the **appropriate tools** to tighten the two parts (see p. 2 / 4) and do not exceed a **maximum recommended tightening torque of 3 Nm!**
- Design related a **small gap will remain between the front and rear part** of the Tungsten-Hybrid Recoil Spring Guide Rod. No effort shall be made e.g. by applying an unduly high tightening torque to close this gap to avoid damage to the components!




3. The correct tightening of the guide rod shall be checked regularly. The front end of the guide rod shall always be located behind the muzzle (see above pic.).

# NOTES ON INSTALLATION, MAINTENANCE AND COATING

## INSTALLATION

 The spring element of the bushing shall **NOT** be removed. Removal will damage the spring element and the bushing!

 The front and rear part must not be threaded together off-centre or canted to avoid undue damage to the threads.

 Design related a small gap will remain between the front and rear part of the Tungsten-Hybrid Recoil Spring Guide Rod. No effort shall be made e.g. by applying an unduly high tightening torque to close this gap to avoid damage to the components! A maximum recommended tightening torque of 3 Nm applies and the gap is not a defect and has no functional influence.

 The correct tightening of the guide rod shall be checked regularly.

 Before every installation lightly lubricate the guide rod and the recoil spring with gun oil to minimize wear (see p. 3 / 6).

## MAINTENANCE

During maintenance it is sufficient to wipe the *Aluminium Recoil Spring Bushing* clean on the outside and especially on the inside where it contacts the guide rod and spring.

The *Tungsten-Hybrid Recoil Spring Guide Rod* shall also be cleaned carefully on the outside.

Due to the coating resp. polishing of the components, it is neither necessary nor recommended to use aggressive solvents or abrasive tools for cleaning.

 Before re-installation lightly lubricate the guide rod and the recoil spring with gun oil to minimize wear (see p. 3).

## COATING

The coating is applied electrochemically.

Where the Aluminium parts are suspended during processing they may show minute, bare spots where contact has taken place. These have no impact on the durability and resilience of the coating.

The coating is also subject to wear especially in exposed areas (edges, etc.).

Process related spots and installation or usage related wear are not considered a defect.

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**In case of any questions please contact us at  
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