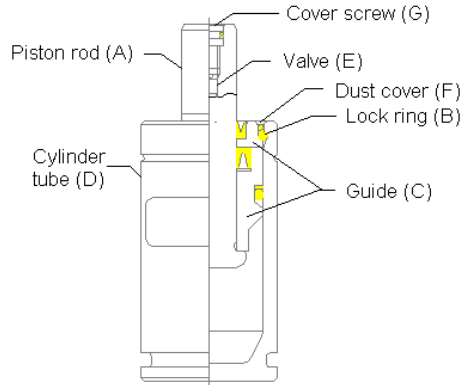


# T2-250 Service Instructions



Tool kit part number: T2TK-250-750



## Warnings

- Failure to exhaust all gas pressure prior to disassembly could result in serious injury.
- The maximum charging pressure is 150 bar (2175 psi).
- Always direct the valve port away from yourself and others.
- Never use extreme force on the gas spring.
- Keep the gas spring protected from dirt, drawing fluids, and grinding dust.
- Use protective jaws when clamping the spring in a vise.

## Inspection

- 7.)
- 8.) Clean the cylinder tube (D) and piston rod (A).
- 9.) Visually inspect the piston rod (A) and cylinder tube (D) to ensure they are reusable. There should be no scratches or dents on the inside surface of the tube, the piston rod, or the lock ring grooves. If defects exist, replace the parts.

## Assembly

- 10.) Unpack the seal kit part number T2SK-250.
- 11.) Put a small amount of oil on your fingers and lightly oil the seals and bushings on the guide (C).
- 12.) Fit the guide (C) on the piston rod (A) so the scraper seal on the guide is positioned upwards (toward the top of the piston rod).
- 13.) Lightly oil the inside diameter of the cylinder tube to prevent damage to the o-ring on the guide (C).
- 14.) Fill the spring with 4ml of oil.

**Hyson™ Products**  
Associated Spring

- 15.) Insert the piston/guide assembly into the cylinder tube (D). Tap down the guide using a socket and rubber mallet.

## Disassembly

- 1.) Clamp the spring at a slight angle with the piston rod (A) facing upward in a vise.
- 2.) Unscrew the M6 cover screw (G) located in the piston rod using a 3mm Allen key.
- 3.) If there is still gas in the spring, release it by screwing the threaded end of the M6 valve tool into the port until the valve (E) opens.



**WARNING: The valve (E) must not be unscrewed until the rod can be pushed down by hand or tapped down with a rubber mallet. Disassembling a charged spring could result in serious injury.** Once the gas is released, use the opposite end of the valve tool to unscrew the valve. Pull the valve from the port with the valve pliers.

- 4.) Remove the dust cover (F). Using a socket and rubber mallet, tap the guide (C) into the cylinder tube (D) until the lock ring (B) is exposed. Remove the lock ring using the lock ring tool (the tool with the concave tip). Bend the lock ring upwards and inwards.
- 5.) Pull out the guide (C) from the cylinder tube (D) using the M6 T-handle.
- 6.) Remove the guide (C) from the piston rod (A).
- 7.) Save the piston rod (A) and cylinder tube (D).

- 16.) Fit the lock ring (B) into the lock ring groove by pushing one end of the ring into the groove and knocking the other end with a mallet until it snaps into place. You can hear a clicking sound when the ring snaps into place.

- 17.) Pull out the piston rod (A) and guide (C) using the M6 T-handle. Pull until the guide is in line with the tube end.



**Warning: If the guide cannot be pulled in line with the upper tube end, something is wrong with the assembly. Gas should not be put into the spring until the guide is in line with the tube end. Pressurizing an incorrectly assembled spring could result in serious injury.**

- 18.) Using the M6 valve tool, fit the valve (E) into the fill port located in the piston rod. **Finger strength is enough to tighten the valve, over-tightening can damage the valve.**
- 19.) Using the M6 fill port located in the piston rod, charge the spring with the desired amount of pressure. **The maximum charging pressure is 150 bar (2175 psi).**
- 20.) Screw the M6 cover screw (G) into the fill port and tighten with 133-159 in\*lbs (15-18 Nm) of torque. Note: The cover screw has a sealing function and must be tightly fastened.



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