2026 Pulley Wheel Installation Instructions

BIKONE

Kit contents

- 2 rear derailleur pulley wheels: one **small** and one **large**.
- 1 tub of "**Speed Grease for Ceramic Bearings**" for maintenance.

Tools required

- 3 mm Allen key.
- Torque wrench.
- Low-strength threadlocker: **Loctite 222, 243 or similar**.
- Degreaser and a clean cloth.

Installation procedure

Step 1 – Identify the pulley wheels

The **large** pulley wheel always goes at the **bottom** and the **small** one always at the **top**. Do not swap them.

Step 2 – Prepare the bike

Place the bike in a workstand and shift the chain onto the smallest sprocket to reduce tension.

Step 3 – Remove the lower pulley wheel

Hold the derailleur cage, as the spring is under tension, and remove the bolt and the pulley wheel. Replace the pulley wheels **one at a time**.

Step 4 – Clean

Thoroughly clean the cage and the bolt, removing any remaining old threadlocker.

Step 5 – Check the direction

The **arrow** engraved on the pulley wheel must point in the **chain's direction of travel** when pedalling, with the arrow side facing outwards. Check this before installing.

Step 6 – Install the lower (large) pulley wheel

The covers are factory-fitted in the correct position: **do not remove them or swap them between pulley wheels**. The chain runs underneath the pulley wheel.

Step 7 – Tighten the lower pulley wheel

Apply a drop of low-strength threadlocker (**Loctite 222, 243 or similar**), never a high-strength one, and tighten to **3–4 Nm** with a torque wrench. The bearings have a **built-in design play** that allows the pulley wheel to adapt to the chain and spin more smoothly. This is normal and is not a defect.

Step 8 – Remove the upper pulley wheel

Repeat Step 3, always holding the derailleur cage.

Step 9 – Install the upper (small) pulley wheel

Clean and check the arrow as in Steps 4 and 5. The chain runs over the top of the pulley wheel.

Step 10 – Tighten the upper pulley wheel

Apply low-strength threadlocker and tighten to **3–4 Nm**, never exceeding this torque. Overtightening eliminates the bearings' **built-in design play**, which is essential for precise shifting and smooth rotation.

Step 11 – Check the chain

Viewed from the side, the chain should form an "S" and must not rub against the cage at any point.

Step 12 – Readjust the derailleur

Always adjust the B-tension, the limit screws and the cable tension. Then, carefully test every gear. If there is any rubbing, noise or incorrect shifting, **take the bike to a specialist workshop**.

Maintenance

Step 13 – Maintenance

Maintenance frequency depends on riding conditions and weather. Clean the pulley wheels after riding in wet conditions or washing the bike. Replace the chain before it is worn, as a worn chain wears the pulley wheels much faster.

Every 3,000 km (sooner if you ride in mud or rain):

a) Remove both pulley wheels following Steps 3 and 8.

b) Remove the seals with a fine pick, taking care not to damage them.

c) Clean the inside and outside of the pulley wheel with degreaser and dry it thoroughly.

d) Apply a half-moon of "**Speed Grease**" to each side of the bearing.

e) Refit the seals, pressing them in with your fingers until fully seated.

f) Reinstall the pulley wheels (Steps 5 to 10) and readjust the derailleur (Step 12).