

13T Pulley Wheels for Shimano MTB 12 Speed.

Pack Contents:

- 2x 13T CNC Machined 7075-T6 Pulley Wheels
- Etched JRC logo dust caps.

1. Pre-Installation Check:

- Ensure the derailleur hanger is straight and aligned with the cassette sprockets.
- Check for excessive wear on the derailleur, chain and cassette, replacing any worn components before fitting new JRC pulley wheels.
- Inspect the pulley wheel cage for any signs of damage or bending.
- Ensure you have the required tools: hex keys, torque wrench and threadlock.
- Make sure your bike is securely placed in a stand or stable surface.

2. Original Pulley Removal:

- Note the chain wrap direction before you remove the original pulley wheels.
- Remove and retain the original bolts for use with the new JRC Pulleys.

3. JRC Pulley Installation:

- Place the JRC pulley wheels into their corresponding positions on the derailleur cage.
- Insert the retained original pulley bolts, threading them lightly into position to avoid cross-threading.
- JRC 13T Pulleys for Shimano MTB 12 Speed can be used interchangeably with each as they are not directional.

4. Bolt Tightening:

- Reapply thread lock to bolts before tightening. Follow the threadlock manufacturer's instructions for correct application.
- Tighten the pulley wheel bolts to the manufacturer's recommended torque.
- Double-check the seating of the pulleys to ensure they can rotate freely and are secure.

5. Pre-Ride Check:

- Before test riding the bike outside, test the gears in a workstand.
- Cycle through all the gears to ensure they are functioning correctly.

- Check and adjust the indexing if necessary to ensure the smooth function of each of the gears before riding.

Troubleshooting:

- If the chain is overriding the pulleys or not tracking correctly, check for:
 - Misaligned (or worn) Derailleur hanger
 - Bent Derailleur cage
- If the chain is skipping over the pulley wheels or is excessively noisy, confirm that the cassette and chainrings are in good condition. Worn components may require replacement.

Important Note:

- 7075-T6 jockey wheels are more precise than OEM plastic pulleys and may reveal any component misalignment.
- If you encounter mechanical difficulties, it is recommended that a suitably certified professional bike mechanic is consulted for assistance.

Caring for your Pulley Wheels

Pulley wheels need to be able to spin with the only resistance evident offered by the oil inside the bearing.

They are, however, in a position on the bike where they are subject to considerable exposure to the elements if you ride outside - especially MTB or CX. They do a lot of unnoticed work tensioning and guiding the chain as you ride and shift.

In this position they are not only subject to dirt and water but are also sometimes neglected. Water and mud ingress over time is likely to lead to bearing damage inside the pulley wheels. The best way to avoid this and potential damage to the pulley wheels occurring as a result is MAINTENANCE. This is best divided into two parts: ROUTINE MAINTENANCE and OVERHAUL.

So: there are two ways to think about maintaining your pulley wheels - an '*every second ride*' routine oiling - just oil the bearing around the centre cap after wiping the dirt off. A wet chain lube such as Finish Line and/or White Lightning will be perfect for this and keep things running smoothly. Once this procedure is done regularly, your pulley wheels will remain in good condition, spin freely and function as they should to guide and tension the chain.

Much less often - perhaps once or twice a year depending on the conditions you ride in, the need to do a thorough clean and overhaul may arise where you will have to remove

the pulley wheels to access the bearing caps and remove the bearing seals (noting carefully how the chain wraps around them beforehand).

Once removed from the derailleur remove the caps using a thin, flat non-metallic tool to remove the cap without damaging it. This will reveal the bearing and its seal - most likely it'll be black on the JRC pulley wheels. This can be gently removed using very little pressure with the tip of a craft knife blade or similar - use goggles and gloves for this part. Slip the tip of the blade under either the internal or external seat of the seal and prise it off carefully. After wiping the pulley wheels clean and rinsing the bearing with degreaser, let it dry. Replace the seal on one side only (this stops the fresh oil from simply pouring out of the other side), add the new oil and replace the cap. Repeat the process for the other pulley wheel.

The pulley wheels should spin freely and only have the resistance of the lube inside.

