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SHIMANO SG-4R35, SG-7R46

Shimano Nexus Rear Hub Washer Instruction Manual

For SG-4R35 and SG-7R46 Hub Models

Brand: SHIMANO

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Shimano Nexus Rear Hub Washer. This component is designed to ensure the correct and secure fitting of your rear hub, specifically compatible with Shimano Nexus SG-4R35 and SG-7R46 internal gear hubs. Please read these instructions carefully before proceeding with installation or maintenance.

2. Safety Information

Always prioritize safety when working on your bicycle. Improper installation or maintenance can lead to component failure, potentially resulting in serious injury. If you are unsure about any step, consult a professional bicycle mechanic.

- Wear appropriate safety gear, such as gloves and eye protection.
- Ensure your bicycle is stable and securely supported before beginning work.
- Use the correct tools for each task.
- Do not modify the washer or any other hub components.
- Keep small parts away from children.

3. Compatibility

This Shimano Nexus Rear Hub Washer is specifically designed for use with the following Shimano Nexus internal gear hub models:

- **SG-4R35**
- **SG-7R46**

Using this washer with incompatible hub models may lead to improper function or damage.

4. Setup and Installation

The washer plays a critical role in the correct alignment and secure fastening of your rear wheel. Follow these steps for proper installation:

1. **Prepare the Hub:** Ensure the hub axle is clean and free from debris. If replacing an old washer, remove it completely.
2. **Identify Washer Orientation:** The washer typically has a specific orientation. Observe any markings or a conical shape. The conical spring washer (as per specifications) should be installed with the wider base facing the hub body or the component it is intended to secure, allowing the spring action to function correctly.
3. **Position the Washer:** Slide the washer onto the hub axle in the correct orientation. It should sit flush against the designated surface on the hub or frame dropout.
4. **Install Wheel:** Carefully place the wheel into the bicycle frame dropouts, ensuring the axle is fully seated.
5. **Secure Axle Nuts:** Install and tighten the axle nuts to the manufacturer's specified torque. Over-tightening can damage components, while under-tightening can lead to a loose wheel. Refer to your hub's specific manual for torque specifications.
6. **Final Check:** After tightening, ensure the wheel is centered and spins freely without wobble. Verify that the washer is correctly seated and not pinched or misaligned.



Image 1: Shimano Nexus Rear Hub Washer. This image shows the washer, highlighting its design and material.

5. Operating Principle

Once correctly installed, the Shimano Nexus Rear Hub Washer functions by providing a secure and stable interface between the hub axle and the bicycle frame's dropout. Its conical spring design helps to maintain consistent pressure, preventing the axle nuts from loosening due to vibrations and ensuring the wheel remains firmly in place during operation. This contributes to the overall stability and safety of your bicycle.

6. Maintenance

Regular inspection and maintenance of your hub washer are crucial for prolonging its lifespan and ensuring safe bicycle operation.

- **Periodic Inspection:** During routine bicycle checks, inspect the washer for any signs of wear, deformation, cracks, or corrosion.

- **Cleaning:** If removing the wheel for other maintenance, clean the washer with a clean cloth to remove dirt and grime. Avoid harsh chemicals that could degrade the material.
- **Replacement:** If the washer shows any signs of damage or excessive wear, it should be replaced immediately with a genuine Shimano replacement part to maintain optimal performance and safety.

7. Troubleshooting

While the hub washer is a simple component, issues can arise if it's not installed correctly or if it's worn.

Symptom	Possible Cause	Solution
Rear wheel feels loose or shifts	Axle nuts not tightened sufficiently, or washer incorrectly seated/damaged.	Check axle nut torque. Inspect washer for damage and correct orientation. Replace if damaged.
Unusual noise from rear hub area	Washer misaligned or foreign object trapped.	Remove wheel, clean area, re-install washer and wheel carefully.
Difficulty installing wheel	Washer not correctly aligned on axle or dropout.	Ensure washer is flush and correctly oriented before inserting wheel into dropouts.

8. Specifications

Key specifications for the Shimano Nexus Rear Hub Washer:

- **Material:** Plastic
- **Outside Diameter:** 2 Inches
- **Washer Type:** Conical Spring
- **Exterior Finish:** Stainless Steel
- **Fastener Size:** M10

9. Warranty and Support

For warranty information and technical support regarding your Shimano Nexus Rear Hub Washer, please refer to the official Shimano website or contact your authorized Shimano dealer. Keep your purchase receipt as proof of purchase.
Shimano Official Website: bike.shimano.com
Customer Support: Consult your local Shimano distributor or retailer for service and support.

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