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› SHIMANO ALFINE SG-S7001 11-Speed Internal Gear Hub Instruction Manual

SHIMANO SG-S7001

SHIMANO ALFINE SG-S7001 11-Speed Internal Gear Hub Instruction Manual

Model: SG-S7001 (32H, Silver)

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your SHIMANO ALFINE SG-S7001 11-Speed Internal Gear Hub. Please read this manual thoroughly before use to ensure safe and optimal performance of your bicycle component. The SHIMANO ALFINE SG-S7001 is an advanced internal gear hub designed for reliable and smooth shifting across 11 speeds, featuring a center lock rotor mount and a 32-hole spoke configuration for the silver variant.



Image 1.1: The SHIMANO ALFINE SG-S7001 11-Speed Internal Gear Hub (Silver, 32H).

2. SAFETY INFORMATION

Always prioritize safety when working with bicycle components. Improper installation or maintenance can lead to serious injury or product damage. It is highly recommended that installation and complex maintenance tasks be performed by a qualified bicycle mechanic.

- **Read all instructions:** Familiarize yourself with the entire manual before beginning any work.
- **Use correct tools:** Ensure you have the appropriate tools for installation and adjustment.
- **Wear protective gear:** Always wear safety glasses and gloves when handling components.
- **Check compatibility:** Verify that all components (frame, spokes, shifter, chain) are compatible with the SG-S7001 hub.
- **Regular inspection:** Periodically check the hub and associated components for wear, damage, or loose parts.

3. SETUP AND INSTALLATION

The SHIMANO ALFINE SG-S7001 hub requires careful installation to ensure proper function and longevity. This section outlines the general steps for installation. For detailed, model-specific instructions, refer to the official SHIMANO dealer manual.

3.1. Wheel Building

The hub is designed for a 32-hole rim. Ensure proper spoke tension and lacing pattern for a strong and true wheel. The Over Locknut Dimension (OLD) is 135mm, with an axle length of 187mm.

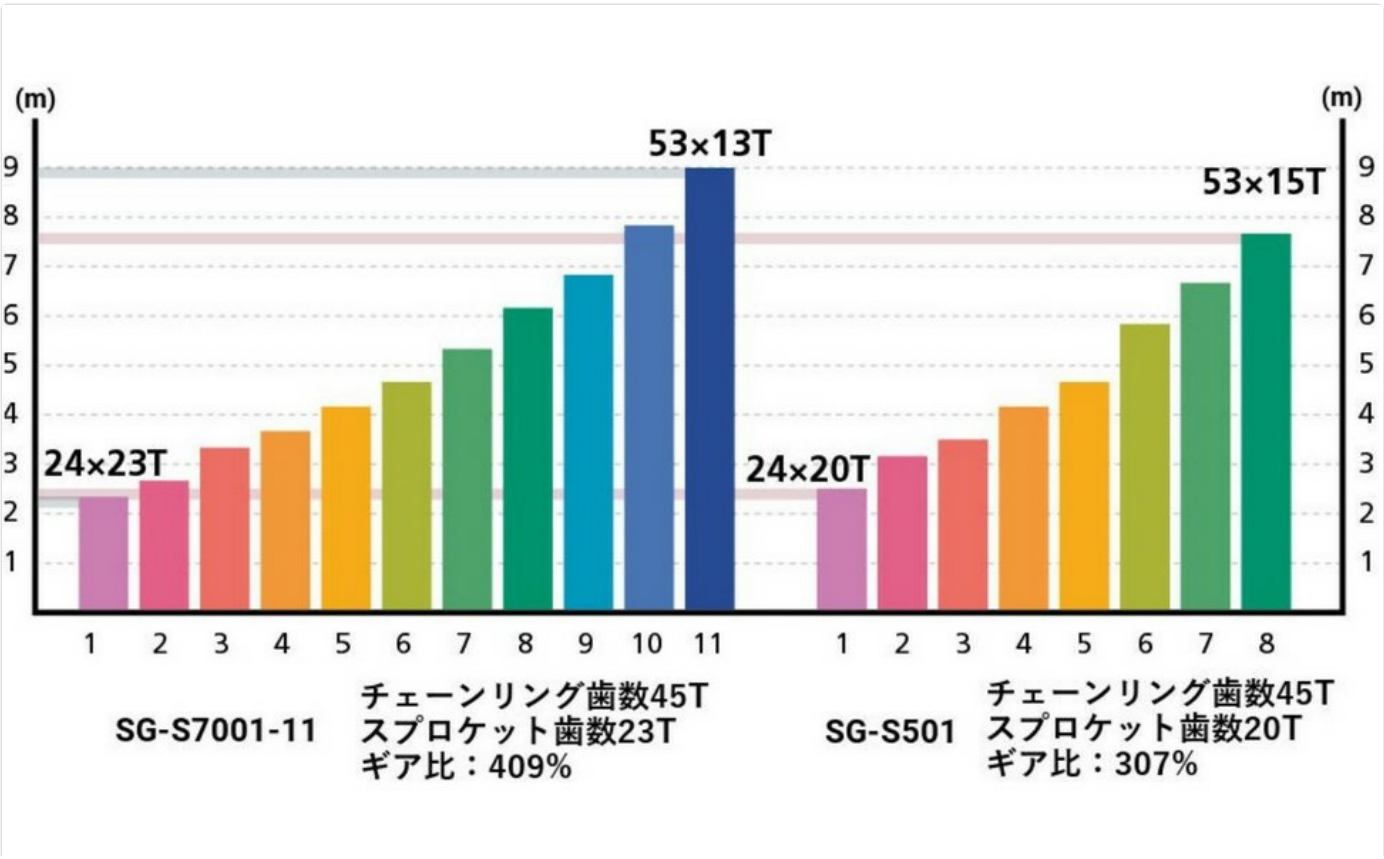


Image 3.1: Exploded view or diagram of the SHIMANO ALFINE SG-S7001 hub, showing internal components and external features.

3.2. Hub Installation into Frame

1. Ensure the frame dropouts are clean and free of debris.
2. Install the anti-rotation washers correctly according to your frame's dropout angle.

3. Insert the wheel into the frame, ensuring the axle nuts are securely tightened to the manufacturer's specified torque.

3.3. Shifter and Cable Installation

Connect the appropriate SHIMANO ALFINE shifter and cable system to the hub's shifting mechanism. Adjust cable tension according to the shifter's instructions to ensure precise gear changes.

3.4. Center Lock Rotor Installation

The SG-S7001 supports center lock disc brake rotors. Install the rotor onto the hub body and secure it with the center lock ring, tightening to the specified torque.

4. OPERATING INSTRUCTIONS

The SHIMANO ALFINE SG-S7001 internal gear hub offers smooth and efficient gear changes. Follow these guidelines for optimal operation:

- **Shifting Technique:** For best results, momentarily ease off pedaling pressure when shifting gears. This reduces stress on the internal mechanism and provides a smoother transition.
- **Stationary Shifting:** One of the key advantages of an internal gear hub is the ability to shift gears while stationary. This is particularly useful when stopping at traffic lights or preparing for a steep climb.
- **Gear Range:** The 11-speed system provides a wide gear range suitable for various terrains and riding conditions. Understand your gear ratios to select the most efficient gear for your current speed and incline.



Image 4.1: Illustration demonstrating the wide gear ratio of the ALFINE 11-speed hub, comparing it to traditional derailleur systems.

5. MAINTENANCE

The SHIMANO ALFINE SG-S7001 internal gear hub is designed for low maintenance. However, regular checks and basic care will extend its lifespan and ensure consistent performance.

- **Cleaning:** Keep the exterior of the hub clean. Wipe away dirt and grime regularly. Avoid using high-pressure washers directly on the hub seals.
- **Cable Maintenance:** Periodically check the shifter cable for fraying, corrosion, or stiffness. Lubricate the cable and housing as needed, or replace if damaged.
- **Gear Adjustment:** If shifting becomes imprecise, check and adjust the shifter cable tension according to the shifter's instructions.

- **Internal Lubrication:** The internal mechanism is factory-lubricated and sealed. Do not attempt to disassemble the hub for lubrication unless you are a qualified mechanic with specialized tools. Improper disassembly will void the warranty.
- **Spoke Tension:** Regularly check spoke tension and wheel trueness. Uneven tension can lead to wheel damage or hub stress.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your SHIMANO ALFINE SG-S7001 hub. For problems not listed here, or if solutions do not resolve the issue, consult a professional bicycle mechanic.

Problem	Possible Cause	Solution
Difficulty shifting gears	Incorrect cable tension, worn cable/housing, bent shift rod	Adjust cable tension. Replace cable/housing if worn. Inspect shift rod for damage.
Gears slip or jump	Incorrect cable tension, worn chain/sprocket, internal hub issue	Adjust cable tension. Check chain and rear sprocket for wear and replace if necessary. If issue persists, consult a mechanic.
Unusual noise from hub	Lack of lubrication (external), loose components, internal wear	Ensure external components are clean and lubricated. Check for loose axle nuts or rotor. If noise is internal, seek professional service.
Brake rotor rubbing	Improperly installed rotor, bent rotor, misaligned caliper	Re-install rotor correctly. Check rotor for trueness. Adjust brake caliper alignment.

7. SPECIFICATIONS

Key technical specifications for the SHIMANO ALFINE SG-S7001 11-Speed Internal Gear Hub:

- Model Number:** SG-S7001
- Shimano Part Number:** ISGS700111BS
- Gear Speeds:** 11-speed
- Rotor Mount:** Center Lock
- Spoke Holes:** 32H
- Over Locknut Dimension (OLD):** 135mm
- Axle Length:** 187mm
- Color:** Silver
- Material:** Metal fiber
- Product Dimensions:** 22.3 x 16.1 x 13.4 cm
- Weight:** 1.66 kg
- ASIN:** B073XSJ4L8

8. WARRANTY INFORMATION

For detailed warranty terms and conditions, please refer to the official SHIMANO website or contact your authorized SHIMANO retailer. Keep your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

If you require further assistance, have questions regarding installation, operation, or maintenance, or need to report a product issue, please contact SHIMANO customer support or your local authorized SHIMANO dealer. Contact information can typically be found on the official SHIMANO website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question