**SHIMANO SG-S7001**

# Shimano Alfine SG-S7001 8-Speed Internally Geared Disc Brake Rear Hub Instruction Manual

Model: SG-S7001

Introduction Safety Information Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

## 1. Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your Shimano Alfine SG-S7001 8-Speed Internally Geared Disc Brake Rear Hub. Please read this manual thoroughly before use to ensure safe and optimal performance. The Alfine SG-S7001 hub is designed for reliable and efficient cycling across various terrains, offering smooth 8-speed internal gearing and disc brake compatibility.

## 2. Safety Information

- Always wear appropriate safety gear, including a helmet, when cycling.
- Ensure all components are correctly installed and tightened to the manufacturer's specifications before riding. Incorrect installation can lead to serious injury.
- Regularly inspect your bicycle, especially the hub and brake system, for any signs of wear, damage, or loose components.
- If you are unsure about any installation or maintenance procedure, consult a professional bicycle mechanic.
- Do not modify the hub or its components. Use only genuine Shimano replacement parts.

## 3. Setup and Installation

Proper installation is crucial for the performance and longevity of your Alfine SG-S7001 hub. This section outlines the general steps for installation. Refer to detailed technical service instructions available from Shimano for comprehensive guidance.

### 3.1 Hub and Wheel Assembly

The Alfine SG-S7001 hub is designed for a 36-hole rim. Professional wheel building is recommended to ensure proper

spoke tension and wheel integrity.

- **Spoke Lacing:** Lace the hub into a compatible 36-hole rim using appropriate spokes and nipples.
- **Tensioning:** Gradually tension the spokes to achieve uniform tension and ensure the wheel is true and dished correctly.

### 3.2 Disc Brake Rotor Installation

This hub is compatible with disc brake systems. A disc brake rotor (not included) must be installed.

- **Rotor Attachment:** Attach the disc brake rotor to the hub's disc mount. Ensure the rotor is clean and free of grease.
- **Lockring:** Secure the rotor with a compatible rotor lockring (not included). Tighten to the manufacturer's specified torque.

### 3.3 Wheel Installation onto Bicycle

Install the assembled wheel into the bicycle frame's rear dropouts.

- **Axle Nuts:** Secure the wheel using the appropriate axle nuts. Ensure the wheel is centered and aligned in the dropouts.
- **Chain Tension:** Adjust chain tension if necessary, depending on your frame's dropout design.

### 3.4 Shifter Cable Connection

Connect the shifter cable from your Alfine shifter to the hub's cassette joint unit (small parts not included with hub).

- **Cassette Joint:** Install the cassette joint unit onto the hub axle.
- **Cable Routing:** Route the shifter cable cleanly along the frame.
- **Cable Attachment:** Attach the shifter cable to the cassette joint, ensuring proper tension and alignment.
- **Adjustment:** Adjust the barrel adjuster on the shifter or cassette joint to ensure smooth and precise shifting across all 8 gears. Refer to the shifter's instruction manual for detailed adjustment procedures.



*Figure 1: Shimano Alfine SG-S7001 8-Speed Internally Geared Disc Brake Rear Hub. This image shows the complete hub assembly, highlighting its black finish, spoke flanges, and the internal gear mechanism on the drive side.*

## 4. Operation

The Alfine SG-S7001 hub provides 8 distinct gears for various riding conditions. Its internal design allows for shifting while stationary, a key advantage over traditional derailleur systems.

- **Shifting Technique:** For optimal shifting performance and to prolong the life of the internal mechanism, it is recommended to momentarily ease off pedal pressure when shifting gears. This reduces stress on the internal components.
- **Stationary Shifting:** You can shift gears even when the bicycle is stopped, which is useful for selecting an appropriate starting gear.
- **Gear Range:** The 8-speed system offers a wide gear range suitable for urban commuting, touring, and varied terrain.

## 5. Maintenance

Regular maintenance ensures the longevity and reliable performance of your Alfine hub.

- **Cleaning:** Keep the exterior of the hub and the cassette joint unit clean. Wipe away dirt and grime with a damp cloth. Avoid high-pressure washing directly on the hub seals.
- **Cable Inspection:** Regularly inspect the shifter cable and housing for fraying, kinks, or corrosion. Replace damaged cables and housing promptly. Cable stretch can affect shifting performance.
- **Lubrication:** The internal gear mechanism is sealed and requires specialized lubrication by a qualified mechanic at recommended service intervals. Do not attempt to lubricate the internal gears yourself. External moving parts of the cassette joint can be lightly lubricated with bicycle-specific grease or oil.
- **Axle Nuts:** Periodically check that the axle nuts are securely tightened to the recommended torque.
- **Disc Rotor:** Ensure the disc brake rotor is clean and free of oil or grease. Contaminated rotors can severely reduce braking performance.

## 6. Troubleshooting

If you experience issues with your Alfine SG-S7001 hub, consult the following common troubleshooting tips. For complex issues, seek assistance from a professional bicycle mechanic.

| Problem | Possible Cause | Solution |
|---|---|---|
| Difficulty shifting gears or gears slipping | Incorrect cable tension<br>Worn or stretched shifter cable/housing<br>Cassette joint misalignment<br>Insufficient pedal pressure release during shifting | Adjust barrel adjuster for proper cable tension.<br>Inspect and replace shifter cable and housing if worn.<br>Ensure cassette joint is correctly seated and aligned.<br>Practice easing pedal pressure during shifts. |

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Noise from the hub | Loose axle nuts<br>Internal mechanism issue<br>Spoke tension imbalance | Check and tighten axle nuts.<br>Consult a professional mechanic for internal issues.<br>Have wheel trued and spoke tension checked by a mechanic. |
| Brake performance issues | Contaminated disc rotor<br>Loose disc rotor<br>Brake caliper misalignment | Clean rotor with disc brake cleaner.<br>Check and tighten rotor lockring.<br>Adjust brake caliper alignment. |

## 7. Specifications

- **Model Name:** Alfine SG-S7001
- **Brand:** SHIMANO
- **Speeds:** 8-Speed Internally Geared
- **Brake Type:** Disc Brake Compatible
- **Spoke Holes:** 36h (36-hole)
- **Axle Type:** 10x1 threaded rear axle
- **Over Locknut Dimension (O.L.D.):** 135mm (standard for many frames)
- **Material:** Multi (Aluminum shell, steel internals)
- **Exterior Finish:** Black
- **Weight:** Approximately 2.26 Kilograms (Package Weight)
- **Included Components:** Internally Geared Hub (Small parts, rotor lockring, and shifter not included)

## 8. Warranty & Support

### 8.1 Warranty Information

The Shimano Alfine SG-S7001 hub comes with a Limited Warranty. For specific details regarding warranty coverage, duration, and claims, please refer to the official Shimano warranty documentation provided with your product or visit the official Shimano website. Keep your proof of purchase for warranty purposes.

### 8.2 Customer Support

For technical assistance, service, or replacement parts, please contact your authorized Shimano dealer or visit the official Shimano website for support resources and contact information. **Visit Shimano's Official Website**

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