SHIMANO CS-6700 11/25T

Shimano Ultegra CS-6700 10-Speed Bicycle Cassette User Manual

Model: CS-6700 (11-25T)

Introduction Setup & Installation Operation Maintenance Troubleshooting Specifications Warranty

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Shimano Ultegra CS-6700 10-Speed Bicycle Cassette. The CS-6700 cassette is designed for road cycling applications, offering reliable and precise shifting performance. It features a lightweight construction with larger cogs riveted onto an aluminum carrier, which also helps protect aluminum freehub bodies.



Figure 1: Shimano Ultegra CS-6700 10-Speed Bicycle Cassette. This image displays the full cassette assembly, highlighting the individual cogs and the Ultegra branding on the lockring, along with the CS-6700 model number and 10-speed designation.

2. Setup & Installation

Proper installation is crucial for optimal performance and longevity of your cassette. Ensure you have the correct tools before beginning.

2.1 Required Tools

- Cassette Chain Whip
- Cassette Lockring Tool
- Torque Wrench (recommended for precise lockring tightening)

2.2 Installation Steps

1. **Remove Existing Cassette:** If replacing an old cassette, use the chain whip to hold the cassette and the lockring tool to loosen and remove the lockring. Slide the old cassette off the freehub body.

2. **Clean Freehub Body:** Thoroughly clean the freehub body to remove any dirt, grease, or debris. Inspect for any damage.
3. **Install New Cassette:** Align the wide spline on the cassette cogs with the wide spline on the freehub body. Slide the cogs onto the freehub body in the correct order (smallest cog last). Ensure all cogs are seated properly.
4. **Install Lockring:** Thread the cassette lockring onto the freehub body by hand, ensuring it is not cross-threaded.
5. **Tighten Lockring:** Use the cassette lockring tool and a torque wrench to tighten the lockring to the manufacturer's specified torque (typically 40 N·m, as indicated on the lockring). **Do not overtighten.**
6. **Install Wheel:** Reinstall the wheel onto your bicycle, ensuring it is properly secured.
7. **Adjust Derailleur:** After installation, it is recommended to check and adjust your rear derailleur for optimal shifting performance across all 10 speeds.

3. Operation

The Shimano Ultegra CS-6700 cassette is designed for smooth and precise gear changes when paired with a compatible 10-speed drivetrain (chain, rear derailleur, and shifters). To operate, use your bicycle's shifters to select the desired gear. Shift smoothly and avoid excessive force, especially when under heavy load, to prolong the life of your drivetrain components.

- **Smooth Shifting:** The Ultegra CS-6700 cassette provides crisp and reliable shifts.
- **Gear Range:** The 11-25T configuration offers a versatile range suitable for various terrains, balancing speed and climbing ability.
- **Compatibility:** This cassette is compatible with Shimano 10-speed road drivetrains.

4. Maintenance

Regular maintenance will ensure the longevity and optimal performance of your cassette.

- **Cleaning:** Regularly clean your cassette to remove dirt, grime, and old lubricant. Use a degreaser and a brush specifically designed for bicycle drivetrains. Rinse thoroughly and dry.
- **Lubrication:** After cleaning, lubricate your chain. While the cassette itself doesn't require lubrication, a well-lubricated chain reduces wear on the cassette cogs.
- **Inspection:** Periodically inspect the cassette cogs for signs of wear, such as "shark-fin" teeth (where teeth become pointed and hooked). Worn cogs can lead to poor shifting and premature chain wear.
- **Chain Replacement:** Replace your bicycle chain regularly. A worn chain will accelerate wear on your cassette and chainrings.
- **Storage:** Store your bicycle in a clean, dry environment to prevent corrosion.

5. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Chain skipping or poor shifting	Worn chain, worn cassette cogs, improperly adjusted derailleur, dirty drivetrain.	Inspect and replace chain if worn. Inspect and replace cassette if cogs are worn. Adjust rear derailleur limit screws and B-tension. Clean and lubricate drivetrain.
Noise from cassette area	Dirty cassette, dry chain, loose cassette lockring, worn freehub bearings.	Clean and lubricate chain and cassette. Check lockring torque. Inspect freehub for wear or damage.

Problem	Possible Cause	Solution
Difficulty installing cassette	Incorrect cog alignment, damaged freehub body.	Ensure wide spline on cogs aligns with wide spline on freehub. Inspect freehub for burrs or damage.

If issues persist after attempting these solutions, consult a professional bicycle mechanic.

6. Specifications

Feature	Detail
Brand	SHIMANO
Model Number	CS-6700
Speed	10-Speed
Cog Combination	11-25T (11, 12, 13, 14, 15, 17, 19, 21, 23, 25 teeth)
Material	Steel cogs, Aluminum carrier (for larger cogs)
Color	Silver
Item Weight	Approximately 0.65 Pounds (295 grams)
Product Dimensions	15"L x 9"W x 2.5"H (Packaging dimensions, actual cassette is smaller)
Manufacturer Part Number	ICS670010125
UPC / GTIN	400018974384, 689228293649, 658508673303

7. Warranty Information

This Shimano Ultegra CS-6700 Bicycle Cassette is covered by a **Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the official Shimano warranty documentation provided with your purchase or visit the official Shimano website. The warranty typically covers manufacturing defects in materials and workmanship under normal use.
Please retain your proof of purchase for any warranty claims.

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