SHIMANO ICS680011225

SHIMANO Ultegra 6800 11-Speed Cassette Instruction Manual

Model: ICS680011225

Introduction

This manual provides comprehensive instructions for the proper installation, operation, and maintenance of your SHIMANO Ultegra 6800 11-Speed Cassette. Adhering to these guidelines will ensure optimal performance, safety, and extend the lifespan of your component. Please read all instructions carefully before proceeding with installation or use.

Safety Information

- Always wear appropriate safety gear, including eye protection, when working on your bicycle.
- Ensure your bicycle is stable and securely supported before beginning any work.
- If you are unsure about any step, consult a professional bicycle mechanic.
- Keep all tools and small parts away from children.

Setup and Installation

Proper installation is crucial for the performance of your 11-speed cassette. Follow these steps carefully.

Tools Required

- Cassette lockring tool
- Chain whip (for removing existing cassette)
- Torque wrench
- Grease

Installation Steps

1. **Prepare the Hub:** Ensure the freehub body is clean and free of debris. Apply a thin layer of grease to the

freehub splines.

2. **Assemble the Cassette:** The SHIMANO Ultegra 6800 cassette comes with cogs and spacers arranged in the correct order on a plastic holder. Carefully slide the cogs and spacers onto the freehub body in the exact sequence provided. Pay close attention to the orientation of each cog and spacer, aligning the wider spline on the cog with the wider spline on the freehub body.
3. **Install the Lockring:** Once all cogs and spacers are in place, thread the cassette lockring onto the freehub body by hand.
4. **Tighten the Lockring:** Use the cassette lockring tool and a torque wrench to tighten the lockring to the manufacturer's specified torque (typically 30-50 Nm). This ensures the cassette is securely seated and prevents movement during riding.
5. **Check for Play:** After tightening, attempt to wiggle the cassette. There should be no lateral play. If there is, recheck the installation of spacers and the lockring torque.



Image: The SHIMANO Ultegra 6800 11-Speed Cassette, ready for installation. This image displays the various cogs and the overall structure of the cassette.

Operating the 11-Speed System

The Ultegra 6800 11-speed cassette is designed for smooth and efficient gear changes. Understanding its operation will enhance your riding experience.

Gear Shifting

- The 11-speed system provides a wide range of gearing options, allowing riders to select the appropriate gear for various terrains and riding conditions.
- Shift gears smoothly by applying consistent pressure to the pedals while actuating the shift levers. Avoid shifting under heavy load to prevent premature wear and potential chain drops.
- The HG-EV (Hyperglide-EV) design of the cassette cogs facilitates quick and precise shifts, even under power.

Maintenance

Regular maintenance is essential to maintain the performance and longevity of your SHIMANO Ultegra 6800 cassette.

Cleaning

- **Frequency:** Clean your cassette regularly, especially after riding in wet or dirty conditions.
- **Procedure:** Use a degreaser and a stiff brush to remove dirt, grime, and old lubricant from between the cogs. Rinse thoroughly with water and dry completely.

Inspection and Lubrication

- **Wear Check:** Periodically inspect the cogs for signs of wear, such as pointed or hooked teeth. Worn cogs can lead to poor shifting and premature chain wear.
- **Chain Compatibility:** Always use an 11-speed compatible chain with your Ultegra 6800 cassette.
- **Lubrication:** While the cassette itself does not require lubrication, ensure your chain is properly cleaned and lubricated to minimize wear on the cassette cogs.

Troubleshooting

If you encounter issues with your cassette, refer to the following common problems and solutions.

Common Issues and Solutions

- **Poor Shifting Performance:**
  - *Cause:* Worn chain, worn cogs, improperly adjusted derailleur, loose cassette lockring.
  - *Solution:* Inspect chain and cogs for wear, adjust rear derailleur indexing, ensure cassette lockring is tightened to specification.
- **Noise from Cassette:**
  - *Cause:* Dirty cassette, dry chain, loose cassette, worn components.
  - *Solution:* Clean and lubricate chain, clean cassette, check cassette lockring torque, inspect for worn parts.
- **Chain Skipping:**
  - *Cause:* Severely worn chain or cogs, bent derailleur hanger, incorrect chain length.
  - *Solution:* Replace worn chain/cogs, check and straighten derailleur hanger, verify correct chain length.

Specifications

Feature	Detail
Brand	SHIMANO
Model Number	ICS680011225
Series	Ultegra 6800
Speeds	11-Speed
Material	Alloy Steel, Aluminum
Item Weight	10.4 ounces (approx. 295g)
Cassette Type	HG-EV
Key Feature	Rider tuned wider gearing options
Origin	Made in Japan

Warranty and Support

SHIMANO products are manufactured to high standards and are backed by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the official SHIMANO website or contact your authorized SHIMANO dealer.

Customer Support

For technical assistance, spare parts, or warranty claims, please contact your local SHIMANO dealer or visit the official SHIMANO support portal. Always provide your product model number (ICS680011225) when seeking support.