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SHIMANO FH-TC500

SHIMANO SLX Deore FH-TC500 Rear Hub User Manual

Model: FH-TC500

INTRODUCTION

This manual provides comprehensive instructions for the proper installation, operation, maintenance, and troubleshooting of your SHIMANO SLX Deore FH-TC500 Rear Hub. Adhering to these guidelines will ensure optimal performance and longevity of your product. Please read this manual thoroughly before attempting any procedures.



Image: SHIMANO SLX Deore FH-TC500 Rear Hub. This image displays the rear hub from a side angle, highlighting its black finish, Center-Lock disc brake mount, and Micro Spline freehub body.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your bicycle. If you are unsure about any step, consult a professional bicycle mechanic.

1. Wheel Building

- The FH-TC500 hub is designed for 32-hole rims and J-Bend spokes. Ensure your rim and spokes are compatible.
- Lace and tension spokes according to standard wheel-building practices. Proper spoke tension is vital for wheel durability and performance.

2. Disc Brake Rotor Installation

This hub features a Center-Lock disc brake rotor mounting system for simplified installation.

1. Align the splines of the Center-Lock disc brake rotor with the splines on the hub body.
2. Place the lock ring over the rotor and thread it onto the hub.
3. Tighten the lock ring to the manufacturer's specified torque using a compatible tool (e.g., a cassette lockring tool). Refer to your disc brake rotor's instructions for specific torque values.

3. Cassette Installation

The FH-TC500 hub is equipped with a SHIMANO Micro Spline cassette body, compatible with 12-speed SHIMANO mountain bike cassettes.

1. Align the wide spline on the cassette with the wide spline on the Micro Spline freehub body.
2. Slide the cassette cogs onto the freehub body.
3. Thread the cassette lock ring onto the freehub body and tighten it to the manufacturer's specified torque (typically 40 Nm).

4. Axle Installation

This hub is designed for a 12mm Thru x 148mm rear axle. A skewer is not included with the hub.

1. Insert the wheel into your bicycle frame's dropouts, ensuring the disc brake rotor is correctly seated in the caliper.
2. Insert a compatible 12mm thru-axle through the frame and the hub.
3. Tighten the thru-axle according to your bicycle frame manufacturer's specifications.

OPERATING GUIDELINES

The SHIMANO FH-TC500 Rear Hub is designed for reliable performance in various cycling conditions.

- **Smooth Rotation:** The hub utilizes a loose ball bearing type, which provides smooth and durable rotation when properly maintained.
- **Sealing:** Labyrinth and Contact Sealing are incorporated to protect the internal components from dirt, dust, and water ingress, enhancing the hub's lifespan and maintaining consistent performance.
- **Braking:** Ensure your Center-Lock disc brake system is correctly installed and adjusted for optimal stopping power and safety.

MAINTENANCE

Regular maintenance will extend the life of your hub and ensure consistent performance.

1. Cleaning

- After riding, especially in wet or dirty conditions, clean the exterior of the hub with a damp cloth.
- Avoid using high-pressure washers directly on the hub, as this can force water past the seals and into the bearings.

2. Bearing Inspection and Lubrication

As a loose ball bearing hub, periodic inspection and re-greasing are recommended.

- Check for any play in the axle by wiggling the wheel side-to-side while it's mounted in the frame. Excessive play indicates a need for adjustment or service.
- For detailed bearing service, it is recommended to consult a professional bicycle mechanic. This involves disassembling the hub, cleaning the bearings and races, inspecting for wear, and re-greasing with appropriate bicycle grease.

3. Disc Brake Rotor and Cassette Inspection

- Regularly inspect your disc brake rotor for wear, damage, or contamination. Replace if necessary.
- Check your cassette cogs for excessive wear (e.g., 'shark fin' teeth), which can lead to poor shifting performance.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

Symptom	Possible Cause	Solution
Clicking or grinding noise from hub	Contaminated or worn bearings; insufficient grease; loose components.	Service bearings (clean, inspect, re-grease); check cassette and rotor lock ring tightness.
Excessive play in wheel	Loose bearings; worn bearings or cones; improperly tightened thru-axle.	Adjust bearing preload (if applicable, consult mechanic); replace worn parts; ensure thru-axle is tightened to spec.
Poor braking performance	Contaminated rotor; loose rotor lock ring; worn brake pads.	Clean rotor; tighten rotor lock ring; replace brake pads.

For issues not listed or if solutions do not resolve the problem, please contact SHIMANO customer support or a certified bicycle mechanic.

SPECIFICATIONS

Key technical specifications for the SHIMANO SLX Deore FH-TC500 Rear Hub:

Feature	Specification
Brand	SHIMANO
Model Number	FH-TC500
Rear Axle Type	12mm Thru-Axle
Over Locknut Dimension (OLD)	148mm (Boost)
Cassette Body Type	SHIMANO Micro Spline (12-speed compatible)
Brake Compatibility	Center-Lock Disc
Spoke Interface	J-Bend

Feature	Specification
Hub Drilling	32 Hole
Bearing Type	Loose Ball Bearing
Sealing	Labyrinth & Contact Sealing
Material	Aluminum, Metal, Plastic
Weight	Approximately 1.27 Pounds (0.57 kg)
Included Components	Rear Hub (No Skewer Included)

WARRANTY INFORMATION

This SHIMANO product is covered by a Limited Warranty. The terms and conditions of this warranty typically cover manufacturing defects in materials and workmanship for a specified period from the date of purchase. For detailed information regarding warranty coverage, duration, and claims procedures, please refer to the official SHIMANO warranty policy provided with your product or visit the official SHIMANO website.

CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your SHIMANO SLX Deore FH-TC500 Rear Hub, please contact SHIMANO customer support.

- **Online Support:** Visit the official SHIMANO website for FAQs, technical documents, and contact forms.
- **Authorized Dealers:** Your local authorized SHIMANO dealer can provide expert advice and service.
- **SHIMANO Store:** You can also visit the [SHIMANO Store on Amazon](#) for more product information.