

SHIMANO Deore Rear Centre Lock Hub (12x142) 28h

SHIMANO Deore Rear Centre Lock Hub (12x142) 28h Instruction Manual

1. PRODUCT OVERVIEW

The SHIMANO Deore Rear Centre Lock Hub is a high-performance component designed for mountain bikes, offering reliable trail performance and simple setup. It features SHIMANO's Centerlock system for easy disc brake rotor installation and Quick Engagement technology for optimized traction and faster acceleration. This hub is specifically designed for use with MICRO SPLINE 12-speed MTB cassettes.

- **Centerlock System:** Facilitates easy disc brake rotor installation with a spline mount and lock ring.
- **Quick Engagement Technology:** Equipped with 18/16 notches and two sets of pawls to double engagement points, optimizing traction for faster acceleration.
- **MICRO SPLINE Compatibility:** Designed exclusively for SHIMANO MICRO SPLINE 12-speed MTB cassettes.
- **Durable Construction:** Built for reliable performance on various trail conditions.

2. SPECIFICATIONS

Brand	SHIMANO
Model	Deore Rear Centre Lock Hub
Rotor Mount	Center Lock
Compatible Speed	MTB 12-speed
Compatible Sprocket Type	MICRO SPLINE (Note: Only MICRO SPLINE cassettes can be used. Conventional cassette sprockets are not compatible.)
Brake Type	Disc Brake
Over Locknut Dimension	142mm
Axle Type	12mm E-THRU (Axle shaft not included)

Spoke Holes	28H (Also available in 32H variants)
Reference Weight	305g (for specific variant)
Material	Multi
Included Components	Rear Hub
UPC	192790444048



Figure 1: SHIMANO Deore Rear Centre Lock Hub (12x142) 28h.

- MTBコンポ「DEORE XT」シリーズのディスクブレーキ用リアフリーハブ。
- シンプルなセットアップと信頼性の高いトレイル性能。
- マイクロスプライン採用

- 対応スピード：MTB 12-speed
- 適応スプロケットタイプ：MICRO SPLINE ※
- ブレーキタイプ：DISCブレーキ
- ローターマウント：センターロック
- オーバーロックナット寸法：142mm
- アクスルタイプ：12mm E-THRU ※アクスルシャフトは付属しません
- スポーク穴数：28H, 32H
- 参考重量：305g

※MICRO SPLINEカセットのみ使用可能です、従来のカセットスプロケットは使用できません。



Figure 2: Detailed view of the SHIMANO Deore Rear Centre Lock Hub, highlighting the Micro Spline freehub body.

3. SETUP AND INSTALLATION

3.1 Disc Brake Rotor Installation (Centerlock System)

The Centerlock system simplifies disc brake rotor installation. Align the rotor with the splines on the hub and secure it with the provided lock ring. Ensure the lock ring is tightened to the manufacturer's specified torque using the appropriate tool.

3.2 Cassette Installation (MICRO SPLINE)

This hub is designed exclusively for SHIMANO MICRO SPLINE 12-speed cassettes. Align the cassette with the MICRO SPLINE freehub body and slide it into place. Secure the cassette with the lock ring, tightening it to the specified torque. **Important: Conventional cassette sprockets are not compatible with this hub. Attempting to install incompatible cassettes may cause damage.**

3.3 Axle Compatibility

The hub is compatible with 12mm E-THRU axles. Please note that the axle shaft is not included with the hub and must be acquired separately.

3.4 Spoke Lacing

This specific hub variant features 28 spoke holes. Ensure your wheel build utilizes the correct spoke count and lacing pattern for optimal wheel integrity and performance.

4. OPERATING INSTRUCTIONS

Once properly installed, the SHIMANO Deore Rear Centre Lock Hub operates automatically as part of your bicycle's drivetrain. The Quick Engagement technology ensures rapid power transfer from your pedals to the wheel, providing responsive acceleration. Ensure all components (cassette, disc rotor, axle) are correctly installed and torqued before riding. Regular checks for loose components are recommended.

5. MAINTENANCE

Proper maintenance extends the life and performance of your hub. SHIMANO hubs often feature durable cup and cone bearings, which benefit from periodic servicing.

- **Cleaning:** Regularly clean the exterior of the hub to prevent dirt and grime buildup.
- **Bearing Service:** Periodically inspect and re-grease the cup and cone bearings. This typically involves disassembling the hub, cleaning old grease, inspecting bearing surfaces and balls, and applying fresh, high-quality bicycle grease.
- **Freehub Inspection:** Check the freehub body, pawls, and springs for wear or damage. Ensure the pawls engage smoothly. When disassembling, be mindful of small components like springs and a plastic spacer, which can be easily misplaced.
- **Seal Maintenance:** For seal ring maintenance, the SHIMANO TL-FH16 seal ring tool is recommended, though careful manual handling may suffice.
- **Torque Checks:** Periodically check the torque of the disc brake rotor lock ring and cassette lock ring.

6. TROUBLESHOOTING

- **Missing Rotor Lock Ring:** If the rotor lock ring is missing upon unboxing, contact your retailer or SHIMANO support for a replacement. Do not operate the bicycle without a properly secured disc brake rotor.
- **Excessive Noise from Freehub:** A loud freehub can sometimes be mitigated by applying a thicker, waterproof marine grease to the pawls and springs during maintenance. Ensure not to over-grease, which can hinder pawl engagement.
- **Poor Freehub Engagement:** If the freehub engagement feels sluggish or inconsistent, it may indicate a need for cleaning and lubrication of the pawls and springs, or inspection for worn components.
- **Wheel Wobble/Play:** Check for proper axle installation and bearing adjustment. If play persists, bearing service may be required.

7. WARRANTY AND SUPPORT

This SHIMANO product is covered by a Limited Warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official SHIMANO website. For technical assistance, spare parts, or warranty claims, please contact your authorized SHIMANO dealer or SHIMANO customer support.