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> Shimano Deore RD-M6000-GS Rear Derailleur User Manual

SHIMANO RD-M6000-GS

Shimano Deore RD-M6000-GS Rear Derailleur User Manual

Model: RD-M6000-GS

Brand: SHIMANO

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Shimano Deore RD-M6000-GS Rear Derailleur. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.



Image: The Shimano Deore RD-M6000-GS Rear Derailleur, a black component designed for bicycle drivetrains, featuring the Shimano Deore branding and Dyna-Sys logo.

SETUP AND INSTALLATION

Proper installation is crucial for the derailleur's performance and safety. If you are unsure about any steps, it is recommended to seek assistance from a qualified bicycle mechanic.

Tools Required:

- Hex wrenches (various sizes, typically 5mm)
- Cable cutters
- Torque wrench (recommended)
- Grease

Installation Steps:

1. **Mounting the Derailleur:** Apply a thin layer of grease to the derailleur hanger threads. Thread the derailleur onto the hanger and tighten to the manufacturer's specified torque (typically 8-10 Nm). Ensure the B-tension screw is positioned correctly against the hanger tab.
2. **Cable Routing:** Route the shift cable from the shifter through the frame and into the derailleur's cable fixing bolt. Ensure the cable runs smoothly without kinks or excessive friction.
3. **Cable Tensioning:** Pull the cable taut and secure it with the cable fixing bolt. Trim excess cable and crimp an end cap onto the cable end.
4. **Limit Screw Adjustment:** Adjust the High (H) and Low (L) limit screws to prevent the chain from over-shifting off the smallest or largest cog. The H-screw limits outward movement, and the L-screw limits inward movement.
5. **B-Tension Adjustment:** Adjust the B-tension screw to set the proper gap between the upper guide pulley and the largest cog. This ensures smooth shifting across the cassette.

OPERATING INSTRUCTIONS

The Shimano Deore RD-M6000-GS is designed for precise and reliable 10-speed shifting. It features SHADOW RD PLUS technology for improved chain stability.

Shifting Gears:

- Use your right-hand shifter to control the rear derailleur.
- To shift to a larger cog (easier gear), press the larger lever on your shifter.
- To shift to a smaller cog (harder gear), press the smaller lever on your shifter.
- Shift smoothly and avoid excessive force. Lighten your pedal pressure slightly during shifts for optimal performance.

Shadow RD+ Clutch Mechanism:

The Shadow RD+ system incorporates a clutch mechanism to reduce chain slap and improve chain retention, especially on rough terrain. This derailleur is equipped with this feature.

- The clutch can be engaged or disengaged via a small lever on the derailleur body.
- For riding on rough trails or downhill, engage the clutch to minimize chain movement.
- For easier wheel removal or general maintenance, disengage the clutch.

MAINTENANCE

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

- **Cleaning:** Regularly clean the derailleur body, pulleys, and cage to remove dirt and grime. Use a degreaser for heavily soiled areas, then rinse and dry.
- **Lubrication:** Apply a small amount of bicycle chain lubricant to the pivot points of the derailleur and the pulley bearings. Avoid over-lubrication, which can attract dirt.
- **Cable and Housing:** Inspect shift cables and housing for fraying, kinks, or corrosion. Replace them if necessary to maintain smooth shifting. The Optislick cable is designed for light shifting effort.
- **Pulley Inspection:** Check the derailleur pulleys for wear. Worn pulleys can lead to poor shifting and increased chain noise. Replace them if the teeth are significantly worn or damaged.
- **Hanger Alignment:** Periodically check your derailleur hanger for alignment. A bent hanger is a common cause of poor shifting and can be straightened by a bike shop.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Chain skips or shifts poorly	Incorrect cable tension, bent derailleur hanger, worn chain/cassette, misaligned limit screws.	Adjust barrel adjuster for cable tension. Check and straighten hanger. Inspect and replace worn drivetrain components. Re-adjust limit screws.
Chain rubs on derailleur cage	Incorrect B-tension adjustment, bent derailleur cage.	Adjust B-tension screw. Inspect cage for damage; replace derailleur if bent.
Excessive chain slap	Shadow RD+ clutch disengaged, insufficient chain length.	Engage the Shadow RD+ clutch. Verify correct chain length.
Difficulty shifting to largest/smallest cog	Limit screws incorrectly set.	Re-adjust H and L limit screws.

SPECIFICATIONS

- **Model:** RD-M6000-GS
- **Drivetrain Speeds:** 10-speed
- **Cage Length:** Medium Cage (GS)
- **Largest Cog Capacity:** 42 teeth
- **Chain Wrap Capacity:** 41 teeth
- **Mounting Type:** Direct Mount
- **Technology:** SHADOW RD PLUS
- **Color:** Black
- **Material:** Aluminum, Metal
- **Item Weight:** Approximately 15.04 ounces (426 grams)

WARRANTY INFORMATION

This Shimano Deore RD-M6000-GS Rear Derailleur comes with a **Limited Warranty**. For specific terms and conditions, including duration and coverage details, please refer to the official Shimano warranty documentation provided with your purchase or visit the official Shimano website.

Keep your proof of purchase for any warranty claims.

SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Shimano Deore RD-M6000-GS Rear Derailleur, please visit the official SHIMANO website or contact their customer service department.

Official SHIMANO Website: www.shimano.com

Always refer to the latest information available from the manufacturer for the most accurate and up-to-date support.

