SHIMANO RDM6000GS

Shimano RD-M6000 Deore 10-Speed Shadow+ Rear Derailleur Instruction Manual

Model: RDM6000GS

1. Introduction

The Shimano RD-M6000 Deore 10-Speed Shadow+ Rear Derailleur is engineered for reliable and precise shifting performance on mountain bikes. Featuring a low-profile Shadow+ design, it minimizes the risk of damage from trail obstacles and includes a chain stabilizing switch for reduced chain bounce and a quieter ride. This derailleur is designed for 10-speed Dyna-Sys HG-X systems.

2. Setup and Installation

2.1 Compatibility

- This derailleur is designed exclusively for **10-speed Dyna-Sys HG-X systems**.
- It is not compatible with 9-speed shifters, cassettes, or other speed systems. Using incompatible components will result in poor shifting performance or non-functionality.
- Compatible with a maximum 42T low sprocket.

2.2 Mounting the Derailleur

The RD-M6000 supports both direct mount and standard hanger installation.

- **For Standard Hanger Installation:** Locate the designated bolt on the derailleur (often requiring a 5mm Allen key). Remove this bolt and use it to mount the derailleur securely to your bike's derailleur hanger.
- **For Direct Mount Frames:** If your frame is direct mount compatible, the specific bolt removal step is not required. Mount the derailleur directly to the frame's direct mount interface.

2.3 Cable Routing

Ensure the shift cable is routed directly and smoothly to the derailleur. Direct cable routing helps prevent snagging from trailside hazards and ensures consistent shifting performance.

2.4 Gear Alignment

After mounting, perform precise gear alignment using the following adjustment screws:

- **H (High Limit) Screw:** Adjusts the derailleur's outermost position, preventing the chain from shifting beyond the smallest sprocket.
- **L (Low Limit) Screw:** Adjusts the derailleur's innermost position, preventing the chain from shifting beyond the largest

sprocket.

- **B (B-Tension) Screw:** Adjusts the distance between the upper guide pulley and the sprockets, optimizing shifting performance across the cassette.

Refer to official Shimano technical documents or consult a professional bicycle mechanic for detailed adjustment procedures.



An image showing the Shimano RD-M6000 Deore 10-Speed Shadow+ Rear Derailleur. The derailleur is black with silver accents, showcasing its compact, low-profile design and the Shadow+ mechanism.

3. Operating Instructions

3.1 Shadow+ Chain Stabilizing Switch

The Shadow+ design incorporates a chain stabilizing switch located on the derailleur body. This switch has two positions:

- **ON Position:** When engaged, this position increases chain tension, significantly reducing chain bounce and noise on rough terrain. This is recommended for aggressive riding or bumpy trails.
- **OFF Position:** Disengaging the switch reduces chain tension, which can make wheel removal easier. This position is generally suitable for smoother riding conditions or when performing maintenance.

3.2 Shifting Performance

This derailleur is optimized for intuitive and precise operation when paired with compatible Shimano Rapid-fire shifters. Ensure smooth and deliberate shifts for optimal performance and longevity of your drivetrain components.

4. Maintenance

4.1 Cleaning

Regularly clean the derailleur body, pulleys, and the entire drivetrain (chain, cassette, chainrings) to prevent the buildup of dirt, grime, and debris. Accumulation of foreign material can hinder shifting performance and accelerate wear.

4.2 Lubrication

The derailleur features two fluorine-coated link bushings for low-friction operation. Periodically apply appropriate bicycle lubricant

to all pivot points on the derailleur and to the chain. This ensures smooth movement, reduces friction, and extends the lifespan of the components.

4.3 Inspection

Periodically inspect the derailleur for any signs of wear, damage, or loose components. Check for:

- Bent derailleur cage or hanger.
- Excessive play in the pivot points.
- Worn or damaged pulley wheels.
- Loose mounting bolts.

Address any issues promptly to prevent further damage or compromised performance.

5. Troubleshooting

5.1 Incorrect Shifting or Gear Skipping

- *Cause:* Improper cable tension, misaligned limit screws (H/L), incorrect B-tension, or a bent derailleur hanger.
- *Solution:* Check and adjust cable tension. Verify H and L limit screw settings. Adjust the B-tension screw to ensure proper clearance between the upper pulley and the largest sprocket. Inspect the derailleur hanger for straightness; replace if bent.

5.2 Chain Rubbing or Excessive Noise

- *Cause:* Incorrect limit screw settings, bent derailleur cage, or insufficient lubrication.
- *Solution:* Re-adjust H and L limit screws. Inspect the derailleur cage for damage. Lubricate pivot points and the chain. Ensure the Shadow+ switch is in the appropriate position for your riding conditions.

5.3 Compatibility Issues

- *Important:* This derailleur is strictly for **10-speed systems**. Attempting to use it with 9-speed or other speed shifters will result in poor shifting performance or non-functionality. Ensure your shifters, cassette, and chain are all 10-speed Dyna-Sys HG-X compatible.

6. Specifications

Feature	Specification
Brand	SHIMANO
Model Number	RDM6000GS (Manufacturer Part Number: IRDM6000GS)
Speed Compatibility	10-Speed Dyna-Sys HG-X
Design	Shadow+
Cage Length	GS (Medium Cage)
Material	Alloy and Steel construction, Aluminium (Case Material Type)
Weight	15 Grams
Max Low Sprocket	42T
Mount Type	Direct Mount / Hanger
Dimensions (L x W x H)	7.76" x 5" x 3.74"

7. Warranty and Support

7.1 Warranty Information

This Shimano product typically comes with a **2-year warranty** from the date of purchase. Please retain your original proof of purchase (receipt or invoice) as it will be required for any warranty claims.

7.2 Customer Support

For technical assistance, spare parts, or warranty service, please contact your authorized Shimano dealer or visit the official Shimano website for comprehensive support resources, including detailed technical documents and contact information.

8. Official Product Videos

No official product videos from the seller are available for embedding at this time.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question