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› SHIMANO Tourney 7-Speed Mountain Bicycle Rear Derailleur RD-A070 Instruction Manual

SHIMANO RD-A070

SHIMANO Tourney RD-A070 7-Speed Rear Derailleur Instruction Manual

Model: RD-A070 (ERDA070D)

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your SHIMANO Tourney RD-A070 7-Speed Mountain Bicycle Rear Derailleur. Original Shimano parts ensure optimal performance, safety, and longevity. Tourney components are designed for casual city riding and mountain biking on paved roads.



Image: SHIMANO Tourney RD-A070 7-Speed Mountain Bicycle Rear Derailleur, showcasing its design and direct attachment point.

SETUP AND INSTALLATION

This section guides you through the installation process for your SHIMANO Tourney RD-A070 rear derailleur.

Compatibility

- The derailleur is compatible with Mountain shifters and 10x1 standard mounting systems, ensuring seamless integration with various mountain bike setups.
- It supports a maximum 28-tooth cog for smooth, efficient shifting across diverse gear ranges, utilizing Shimano's Smartcage technology with precise 11/13t pulley operation.

Direct Attachment Installation

The RD-A070 model features a direct attachment design. Ensure your bicycle frame is compatible with this mounting type before proceeding.

1. **Attach Derailleur:** Securely attach the derailleur to the bicycle frame's direct mount point using the appropriate fastener.
2. **Route Shift Cable:** Carefully route the shift cable through the derailleur's cable guide and secure it with the cable fixing bolt.
3. **Set Limit Screws:** 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.
4. **Adjust Cable Tension:** Use the barrel adjuster on the shifter or derailleur to fine-tune cable tension, ensuring crisp and accurate shifts.
5. **Verify Shifting:** Test shifting through all 7 speeds to confirm smooth and precise gear changes. Make minor adjustments as needed.

OPERATION

The SHIMANO Tourney RD-A070 is engineered for reliable 7-speed shifting performance.

- The Smartcage design incorporates 11-tooth and 13-tooth pulleys, allowing for a short cage configuration and accommodating a maximum 28-tooth low cog.
- With a short cage and a chain wrap capacity of 37 teeth, the RD-A070 facilitates quick and accurate gear changes, suitable for various riding conditions including trail riding, XC racing, and daily mountain biking.

To operate, use your compatible mountain shifters to initiate gear changes. Apply smooth and consistent pressure to the shifter levers. Avoid abrupt or forceful shifting, especially under heavy pedaling load, to ensure longevity and prevent damage to the drivetrain components.

MAINTENANCE

Regular maintenance is crucial for ensuring optimal performance and extending the lifespan of your rear derailleur.

- **Cleaning:** Periodically clean the derailleur, paying close attention to the pulleys and pivot points, to remove accumulated dirt, mud, and grime. Use a mild degreaser and a soft brush, then rinse thoroughly.
- **Lubrication:** After cleaning, or as needed based on riding conditions, apply a suitable bicycle chain lubricant to the derailleur's pivot points and pulley bearings. Avoid excessive lubrication, which can attract more dirt.
- **Cable Inspection:** Regularly inspect the shift cable for any signs of fraying, corrosion, or kinks. A damaged cable can impair shifting performance. Replace the cable and housing if necessary.
- **Limit Screw Check:** Occasionally verify that the high (H) and low (L) limit screws are correctly set. Incorrect settings can lead to the chain shifting into the spokes or off the smallest cog, potentially causing damage.
- **B-Tension Adjustment:** Ensure there is adequate clearance between the upper derailleur pulley and the largest cog on your cassette. Adjust the B-tension screw if the clearance is too small or too large.

TROUBLESHOOTING

This section addresses common issues you might encounter with your rear derailleur and provides potential solutions.

Sluggish or Inaccurate Shifting

- **Cable Tension:** If shifts are slow or hesitant, especially when shifting to smaller cogs, adjust the barrel adjuster. Turn counter-clockwise to increase cable tension (for faster downshifts/slower upshifts) or clockwise to decrease tension (for slower downshifts/faster upshifts).
- **Limit Screws:** Incorrectly set high (H) or low (L) limit screws can restrict the derailleur's movement, preventing it from reaching all gears. Re-adjust these screws carefully according to the installation instructions.
- **Dirty/Worn Cable or Housing:** Friction from a dirty, corroded, or frayed shift cable or housing can cause sluggish

shifting. Clean or replace the cable and housing.

- **Bent Derailleur Hanger:** A bent derailleur hanger will misalign the entire derailleur, leading to poor shifting across the cassette. This issue often requires a professional bicycle mechanic to straighten or replace the hanger.

Noise from Derailleur

- **Lack of Lubrication:** Dry pivot points or pulleys can cause squeaking or grinding noises. Apply appropriate lubricant.
- **Misalignment:** Check cable tension and limit screw settings. Minor adjustments can often resolve rubbing noises.
- **Worn Pulleys:** Over time, derailleur pulleys can wear out, leading to noise and inefficient chain movement. Inspect pulleys for wear and replace if necessary.

SPECIFICATIONS

Brand	SHIMANO
Model Number	ERDA070D (RD-A070)
Color	Black
Material	Multi (Aluminum)
Item Weight	0.27 g
Mounting Type	Direct Attachment
Number of Speeds	7
Pulley Teeth	11/13t
Max Low Cog	28t
Chain Wrap Capacity	37 teeth
Dimensions (L x W x H)	5.5" x 5.5" x 3.2"
UPC	689228297418

WARRANTY INFORMATION

The SHIMANO Tourney RD-A070 Rear Derailleur is covered by a Limited Warranty. For detailed terms, conditions, and duration of the warranty, please refer to the official SHIMANO warranty documentation provided with your purchase or available on the SHIMANO website. Please retain your proof of purchase for warranty claims.

SUPPORT

For further assistance, technical inquiries, or service, please contact SHIMANO customer support through their official website. You may also consult with a professional bicycle mechanic for expert installation, adjustments, and maintenance services to ensure the best performance and safety of your bicycle components.

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

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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