

**microSHIFT RD-R47-BK**

## microSHIFT R10 Rear Derailleur User Manual

Model: RD-R47-BK

### PRODUCT OVERVIEW

The microSHIFT R10 Rear Derailleur is designed for 10-speed bicycle drivetrains, offering compatibility with Shimano systems. It features a long cage design, suitable for a wide range of gear ratios. Constructed from aluminum, this derailleur is built for durability and reliable shifting performance.



Image: Front view of the microSHIFT R10 Rear Derailleur, showcasing its silver aluminum body and black jockey wheels. The microSHIFT logo is visible on the main body.

### SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your microSHIFT R10 Rear Derailleur. It is recommended that installation be performed by a qualified bicycle mechanic.

#### Tools Required:

- Hex key set (typically 5mm for mounting bolt)
- Cable cutters
- Cable crimps
- Torque wrench (recommended for precise installation)

## Installation Steps:

1. **Mounting the Derailleur:** Attach the derailleur to the derailleur hanger on your bicycle frame. Ensure the B-tension screw is correctly positioned against the hanger tab. Tighten the mounting bolt to the manufacturer's recommended torque specification.
2. **Routing the Cable:** Route the shift cable from your shifter through the frame's cable guides and into the derailleur's cable anchor bolt. Ensure the cable is free of kinks and excessive friction.
3. **Securing the Cable:** Pull the cable taut and secure it under the cable anchor bolt. Do not overtighten. Trim excess cable and install a cable crimp to prevent fraying.
4. **Limit Screw Adjustment:**
  - **High Limit (H) Screw:** Adjust the H-screw to prevent the chain from shifting beyond the smallest cog. The guide pulley should align directly under the smallest cog.
  - **Low Limit (L) Screw:** Adjust the L-screw to prevent the chain from shifting beyond the largest cog and into the spokes. The guide pulley should align directly under the largest cog.
5. **B-Tension Adjustment:** With the chain on the largest cog and smallest chainring, adjust the B-tension screw to set the gap between the upper guide pulley and the largest cog. A gap of 5-6mm is generally recommended, but refer to specific drivetrain recommendations for optimal performance.

## OPERATING INSTRUCTIONS

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The microSHIFT R10 Rear Derailleur operates by moving the chain across the rear cassette cogs in response to input from your shift lever. This derailleur is designed for smooth and precise 10-speed shifting.

### Shifting Procedure:

- Always pedal forward while shifting. Avoid shifting under heavy load.
- To shift to a larger cog (easier gear), actuate the appropriate shift lever. The derailleur will move inward.
- To shift to a smaller cog (harder gear), actuate the appropriate shift lever. The derailleur will move outward.
- Listen for smooth shifts. If shifting is hesitant or noisy, cable tension adjustment may be required.

### Cable Tension Adjustment (Fine-Tuning):

Minor adjustments to cable tension can be made using the barrel adjuster located on the derailleur or shifter.

- If shifting to larger cogs is slow or hesitant, turn the barrel adjuster counter-clockwise (out) to increase cable tension.
- If shifting to smaller cogs is slow or hesitant, turn the barrel adjuster clockwise (in) to decrease cable tension.

## MAINTENANCE

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Regular maintenance extends the life and ensures the performance of your derailleur.

### Cleaning:

- Periodically clean the derailleur body, jockey wheels, and cage with a degreaser and brush. Rinse thoroughly and dry.

- Ensure no grit or grime accumulates around the pivots.

**Lubrication:**

- Apply a small amount of bicycle-specific lubricant to the pivot points of the derailleur and the jockey wheel bearings.
- Avoid over-lubrication, which can attract dirt.

**Inspection:**

- Regularly check for bent derailleur hangers, which can cause poor shifting.
- Inspect jockey wheels for wear; replace if teeth are excessively worn or damaged.
- Check cable and housing for fraying, kinks, or contamination. Replace as needed.

**TROUBLESHOOTING**

Problem	Possible Cause	Solution
Slow or hesitant shifting to larger cogs	Insufficient cable tension; dirty/frayed cable or housing	Increase cable tension with barrel adjuster (counter-clockwise); clean or replace cable/housing.
Slow or hesitant shifting to smaller cogs	Excessive cable tension; dirty/frayed cable or housing	Decrease cable tension with barrel adjuster (clockwise); clean or replace cable/housing.
Chain overshifts past smallest cog	H-limit screw set too far out	Turn H-limit screw clockwise (in) until chain aligns with smallest cog.
Chain overshifts past largest cog (into spokes)	L-limit screw set too far out	Turn L-limit screw clockwise (in) until chain aligns with largest cog.
Noisy shifting or poor chain wrap	Incorrect B-tension adjustment; bent derailleur hanger	Adjust B-tension screw; inspect and straighten/replace derailleur hanger.

**SPECIFICATIONS**

Feature	Detail
Brand	microSHIFT
Model Number	RD-R47-BK
Speed Compatibility	10 Speed
Cage Length	Long Cage
Compatibility	Shimano Compatible
Color	Black
Material	Aluminum
Mounting Type	Braze-On Mount
Package Weight	0.27 Kilograms

Feature	Detail
Item Package Dimensions	6.42 x 4.29 x 2.83 inches

WARRANTY AND SUPPORT

For warranty information or technical support regarding your microSHIFT R10 Rear Derailleur, please refer to the official microSHIFT website or contact their customer service directly. Keep your proof of purchase for warranty claims.  
*Note: Specific warranty terms and conditions may vary by region and retailer.*



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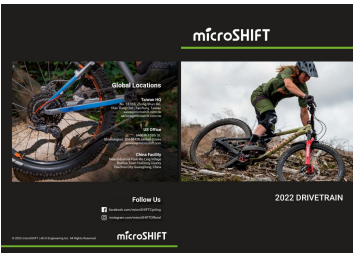
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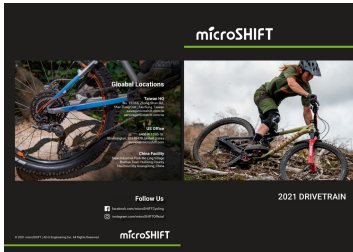
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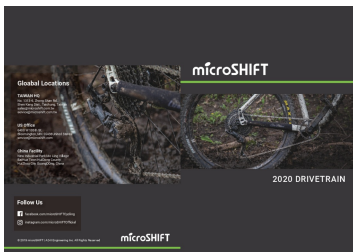


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