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› microSHIFT Advent 9-Speed Rear Derailleur (RD-M619M) Instruction Manual

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Model: RD-M619M

1. PRODUCT OVERVIEW

The microSHIFT Advent 9-Speed Rear Derailleur (Model RD-M619M) is designed for reliable and consistent shifting performance on bicycles equipped with a 9-speed drivetrain. It features a medium cage design and is compatible with microSHIFT ADVENT shifters and cassettes, supporting a largest cog of up to 46 teeth. This derailleur is constructed from durable alloy steel and aluminum, ensuring longevity and robust operation.



Figure 1: The microSHIFT Advent 9-Speed Rear Derailleur (RD-M619M) in black, showcasing its medium cage and overall design. This image provides a clear view of the derailleur's components and structure.

2. SPECIFICATIONS

Brand	microSHIFT
Model Number	RD-M619M
Drivetrain Speeds	9-Speed
Rear Derailleur/Shifter Compatibility	microSHIFT ADVENT
Largest Cog Capacity	46 teeth
Cage Length	Medium
Chain Wrap Capacity	41 teeth
Mount Type	10x1 Standard (Braze-On Mount)
Material	Alloy Steel, Aluminum
Color	Black
Item Weight	0.8 Pounds (approx. 363g)

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any step, consult a professional bicycle mechanic.

3.1 Tools Required

- Hex wrenches (typically 5mm)
- Cable cutters
- Cable crimps
- Torque wrench (recommended)
- Chain whip and cassette tool (if replacing cassette)

3.2 Mounting the Derailleur

1. Ensure your derailleur hanger is straight and undamaged.
2. Apply a small amount of grease to the derailleur hanger threads.
3. Thread the derailleur onto the hanger by hand, ensuring it is properly aligned.
4. Tighten the derailleur mounting bolt to the manufacturer's specified torque (refer to your bicycle or derailleur hanger manual for specific torque values, typically around 8-10 Nm).

3.3 Chain Installation and Sizing

1. Route the chain through the derailleur cage, ensuring it passes correctly over the guide and tension pulleys.
2. Determine the correct chain length. A common method is to wrap the chain around the largest chainring and largest cog, bypassing the derailleur. Add two full links (one inner and one outer) to this length.
3. Connect the chain using a master link or chain pin according to the chain manufacturer's instructions.

3.4 Cable Routing and Adjustment

1. Route the shifter cable from the shifter to the derailleur, ensuring it runs smoothly through all cable housing and guides.

2. Secure the cable to the derailleur's cable anchor bolt. Do not overtighten initially.
3. Adjust the **High (H) limit screw**: With the chain on the smallest cog, turn the H-screw until the guide pulley is directly aligned with the smallest cog. The chain should not rub against the frame or jump off the cog.
4. Adjust the **Low (L) limit screw**: Shift the chain to the largest cog. Turn the L-screw until the guide pulley is directly aligned with the largest cog. The chain should not rub against the spokes or jump off the cog.
5. Adjust **B-tension screw**: With the chain on the largest cog, 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 for optimal shifting.
6. Fine-tune shifting: Use the barrel adjuster on the shifter or derailleur to achieve crisp shifts. Turn clockwise to move the derailleur inward (towards larger cogs) and counter-clockwise to move it outward (towards smaller cogs).

4. OPERATING INSTRUCTIONS

The microSHIFT Advent 9-Speed Rear Derailleur operates in conjunction with a compatible microSHIFT Advent 9-speed shifter.

- **Upshifting (to smaller cogs)**: Use the smaller lever on your shifter to move the chain to smaller, harder-to-pedal cogs. This is typically used for increasing speed or descending.
- **Downshifting (to larger cogs)**: Use the larger lever on your shifter to move the chain to larger, easier-to-pedal cogs. This is typically used for climbing or reducing effort.
- Always shift gears while pedaling forward with moderate pressure. Avoid shifting under heavy load or while stationary to prevent damage to the drivetrain components.

5. MAINTENANCE

Regular maintenance extends the life and performance of your derailleur.

- **Cleaning**: Regularly clean the derailleur, especially the pulleys, to remove dirt, grime, and old lubricant. Use a degreaser and a brush, then rinse thoroughly.
- **Lubrication**: After cleaning, apply a light bicycle-specific lubricant to the pivot points of the derailleur and the chain. Wipe off any excess lubricant.
- **Inspection**: Periodically check the derailleur for any signs of damage, bent components, or loose bolts. Ensure the derailleur hanger is straight.
- **Cable and Housing**: Inspect shifter cables and housing for fraying, kinks, or corrosion. Replace them if necessary to maintain smooth shifting.
- **Pulley Wheels**: Check the pulley wheels for wear. Worn pulleys can lead to poor shifting and increased noise. Replace them if the teeth are significantly worn or damaged.

6. TROUBLESHOOTING

Common issues and their potential solutions.

6.1 Poor Shifting Performance

- **Symptom**: Slow or hesitant shifts, chain not moving to desired cog.
 - **Solution**: Check cable tension. Adjust the barrel adjuster (turn counter-clockwise for slower shifts, clockwise for faster shifts).

- **Solution:** Inspect cable and housing for friction or damage. Replace if necessary.
- **Solution:** Verify limit screw settings (H and L).
- **Solution:** Check for a bent derailleur hanger. A bent hanger is a common cause of poor shifting and requires straightening or replacement.
- **Solution:** Ensure the chain is clean and lubricated.

6.2 Derailleur Noise

- **Symptom:** Clicking, grinding, or rubbing sounds.
 - **Solution:** Check limit screws (H and L) to ensure the derailleur is not over-shifting or under-shifting.
 - **Solution:** Adjust B-tension screw to ensure proper clearance between the guide pulley and the largest cog.
 - **Solution:** Clean and lubricate the derailleur and chain.
 - **Solution:** Inspect pulley wheels for wear or damage.
 - **Solution:** Check for a bent derailleur hanger.

6.3 Chain Dropping

- **Symptom:** Chain falls off the smallest or largest cog.
 - **Solution:** Re-adjust H (high) and L (low) limit screws carefully.
 - **Solution:** Check for a bent derailleur hanger.

7. WARRANTY AND SUPPORT

For warranty information and detailed support, please refer to the official microSHIFT website or contact your authorized microSHIFT dealer. Keep your proof of purchase for any warranty claims.

For technical assistance or further inquiries, please visit the microSHIFT official support page or consult a certified bicycle mechanic.