

microSHIFT MSH-SB-M090

microSHIFT Advent Drop Bar Shifter Lever Set User Manual

Model: MSH-SB-M090

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your microSHIFT Advent Drop Bar Shifter Lever Set. Please read this manual thoroughly before use to ensure proper function and longevity of your product.

The microSHIFT Advent Drop Bar Shifter Lever Set is designed for 1x9 speed bicycle setups, offering precise and reliable shifting performance for drop bar bicycles. It is specifically compatible with microSHIFT Advent rear derailleurs and cassettes.

PRODUCT OVERVIEW



Figure 1: Front view of the microSHIFT Advent Drop Bar Shifter Lever Set, showing both left and right levers. The levers are black with "microSHIFT 9 SPEED" and "ADVENT" branding visible.





Figure 2: Side view of a single microSHIFT Advent Drop Bar Shifter Lever, highlighting the ergonomic shape and the separate shifter and brake lever design.





Figure 3: Alternate side view of the microSHIFT Advent Drop Bar Shifter Lever, showing the cable routing points and the textured grip area.

Key Features:

- Designed for 1x9 speed setups.
- Left side brake only for 1x9 setups.
- Shifter levers are separate from brake lever to avoid accidental braking.
- Crisp, positive shifting action.
- Compatible with ADVENT derailleurs only.
- Forged aluminum lever construction.
- External shifter cable routing, internal brake routing.
- Compatible only with Campagnolo shift cables.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any step, it is recommended to seek assistance from a professional bicycle mechanic.

Tools Required:

- Hex key set (e.g., 4mm, 5mm)
- Cable cutters
- Cable crimps
- Grease (for bolts)
- Torque wrench (recommended)

Installation Steps:

1. Mounting the Shifters:

Slide the shifter/brake levers onto the drop handlebars. Position them ergonomically for comfortable reach to both brake and shift levers. Tighten the clamp bolts to the manufacturer's recommended torque specifications (typically found on the clamp itself or in a general bicycle component torque guide). Ensure the levers are securely mounted and do not rotate on the bars.

2. Brake Cable Routing:

Route the brake cables internally through the levers and then externally along the handlebars, securing them with appropriate cable ties or tape. Connect the brake cables to your bicycle's brake calipers/mechanisms. Adjust cable tension to ensure proper brake function and lever feel. The internal brake routing provides a clean aesthetic.

3. Shifter Cable Routing:

Insert the shift cable into the shifter lever. The microSHIFT Advent shifters use external shifter cable routing. Route the cable along the handlebars and frame to the rear derailleur. Ensure the cable path is smooth and free of sharp bends that could impede shifting performance. *Note: Only compatible*

with Campagnolo shift cables.

4. **Deraillieur Connection:**

Connect the shift cable to your microSHIFT Advent rear derailleur. Secure the cable with the derailleur's cable fixing bolt. Ensure the cable is taut but not overly tight. Trim excess cable and crimp a cable end cap to prevent fraying.

5. **Initial Adjustments:**

Perform initial adjustments for both braking and shifting. For shifting, ensure the derailleur limits are set correctly and that the chain moves smoothly across all 9 gears. Fine-tune cable tension using the barrel adjuster on the shifter or derailleur for crisp, positive shifting action.

OPERATING INSTRUCTIONS

The microSHIFT Advent Drop Bar Shifter Lever Set provides intuitive control over your bicycle's gearing and braking.

Shifting Gears:

- **Upshifting (to a smaller cog/higher gear):** Use the smaller lever located behind the main brake lever. A short, crisp push will shift the chain to a smaller cog.
- **Downshifting (to a larger cog/lower gear):** Use the larger lever, which is the main brake lever itself. Pushing the brake lever inwards (without engaging the brake fully) will shift the chain to a larger cog.
- Ensure you are pedaling forward while shifting to prevent damage to the drivetrain.
- The shifter levers are designed to be separate from the brake lever to avoid accidental braking during shifting.

Braking:

- To engage the brakes, pull the main brake lever towards the handlebar.
- This product is designed for 1x9 setups, meaning the left lever functions as a brake only.
- Apply brake pressure smoothly and progressively.

MAINTENANCE

Regular maintenance will extend the life and performance of your microSHIFT Advent shifters.

- **Cleaning:** Regularly wipe down the shifters with a clean, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Periodically inspect brake and shift cables for fraying, corrosion, or kinks. Replace damaged cables promptly.
- **Lubrication:** Apply a small amount of light lubricant to the pivot points of the levers and where cables enter the housing. Avoid over-lubrication, which can attract dirt.
- **Bolt Torque:** Check the tightness of all mounting bolts periodically, especially after the first few rides. Refer to recommended torque specifications.
- **Compatibility:** Remember these shifters are compatible with ADVENT derailleurs only and Campagnolo shift cables. Using incompatible components may lead to poor performance or damage.

TROUBLESHOOTING

This section addresses common issues you might encounter with your shifters.

Problem	Possible Cause	Solution
Difficulty shifting, sluggish shifts	<ul style="list-style-type: none"> • Cable tension too low • Friction in cable housing • Dirty or worn derailleur • Incompatible components 	<ul style="list-style-type: none"> • Increase cable tension using barrel adjuster. • Inspect and replace cables/housing if necessary. • Clean and lubricate derailleur; check for wear. • Ensure Advent derailleur and Campagnolo shift cables are used.
Chain skips gears or shifts erratically	<ul style="list-style-type: none"> • Incorrect limit screw settings • Bent derailleur hanger • Worn chain or cassette 	<ul style="list-style-type: none"> • Adjust derailleur limit screws (H and L). • Check and straighten/replace derailleur hanger. • Inspect and replace worn drivetrain components.
Brake lever feels spongy or ineffective	<ul style="list-style-type: none"> • Loose brake cable • Worn brake pads • Contaminated brake surface 	<ul style="list-style-type: none"> • Tighten brake cable at caliper. • Replace brake pads. • Clean brake rotors/rims and pads.

If problems persist after attempting these solutions, please contact microSHIFT customer support or consult a qualified bicycle mechanic.

SPECIFICATIONS

Feature	Detail
Brand	microSHIFT
Model Number	MSH-SB-M090
Speed Compatibility	1x9 Speed (Advent Compatible Only)
Brake Lever Actuation	Short Pull
Color	Black
Material	Forged Aluminum
Product Dimensions	4.01"L x 3.07"W
Item Weight	0.15 Kilograms (approx. 5.3 ounces)
Cable Routing	External Shifter, Internal Brake
Shift Cable Compatibility	Campagnolo Shift Cables Only
Derailleur Compatibility	microSHIFT Advent Derailleurs Only

WARRANTY INFORMATION

microSHIFT products are manufactured to high standards and are backed by a limited warranty against defects in materials and workmanship. For specific warranty terms, duration, and claim procedures, please refer to the official microSHIFT website or contact their customer support directly. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, parts inquiries, or warranty service, please contact microSHIFT customer support through their official website or authorized distributors. When contacting support, please have your product model number (MSH-SB-M090) and purchase information ready.

Official Website: www.microshift.com

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