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> microSHIFT Trail Trigger Pro Right Shifter 1x9 Speed Advent Compatible User Manual

## microSHIFT MSH-SL-M9295-R

# microSHIFT Trail Trigger Pro Right Shifter (1x9 Speed, ADVENT Compatible) User Manual

Model: ADVENT Trail Trigger Pro Shifter (MSH-SL-M9295-R)

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your microSHIFT Trail Trigger Pro Right Shifter. Designed for 1x9 speed ADVENT drivetrains, this shifter offers precise and reliable gear changes for mountain biking. Please read this manual thoroughly before use to ensure optimal performance and longevity of your component.



Figure 1: microSHIFT Trail Trigger Pro Right Shifter. This image shows the right-hand trigger shifter, designed for 1x9 speed ADVENT systems, featuring its ergonomic levers and robust construction.

## 2. WHAT'S INCLUDED

Upon unpacking, verify that all components are present:

- 1 x microSHIFT Trail Trigger Pro Right Shifter
- 1 x Flat Bar-Right Clamp (integrated)

## 3. SETUP AND INSTALLATION

Proper installation is crucial for optimal shifting performance. This shifter is compatible exclusively with microSHIFT ADVENT 9-speed drivetrains.

### 3.1 Tools Required

- Hex key set (typically 4mm or 5mm for clamp bolts)
- Cable cutters
- Cable crimps
- Grease (for cable housing ends)

### 3.2 Mounting the Shifter

1. Loosen the clamp bolt on the shifter using the appropriate hex key.
2. Slide the shifter onto the right side of your handlebar.
3. Position the shifter for comfortable access to both shift levers. Ensure it does not interfere with brake levers or other handlebar-mounted accessories.
4. Tighten the clamp bolt to the manufacturer's recommended torque specification (refer to your bicycle's or handlebar's manual if available, otherwise tighten securely without over-tightening).

### 3.3 Cable Installation

1. Ensure the shifter is in its highest gear position (smallest cog on the cassette). This typically involves pressing the up-shift lever until it clicks no further.
2. Locate the cable port on the shifter body. Insert the shift cable head into the designated slot.
3. Route the cable through the shifter mechanism and out the cable exit port.
4. Install the cable housing, ensuring it is cut to the correct length and that the ends are properly prepared with ferrules. Apply a small amount of grease to the cable housing ends for smoother operation.
5. Route the cable and housing to your rear derailleur, securing it with frame guides as necessary.
6. Attach the cable to the rear derailleur's cable anchor bolt, ensuring there is no slack. Tighten the anchor bolt to the derailleur manufacturer's specified torque.

## 4. OPERATION

The microSHIFT Trail Trigger Pro Right Shifter features two distinct levers for intuitive gear changes.

### 4.1 Up-Shifting (Harder Gear)

To shift to a harder (smaller) gear, press the smaller, upper lever with your thumb. Each press will shift one gear at a

time. This action moves the chain to a smaller cog on the cassette, increasing pedaling resistance.

## 4.2 Down-Shifting (Easier Gear)

To shift to an easier (larger) gear, press the larger, lower lever with your thumb. This lever allows for multiple shifts with a single, longer press, moving the chain across several cogs to a larger gear. This action reduces pedaling resistance.

Always pedal lightly while shifting to ensure smooth and precise gear changes and to prevent damage to your drivetrain components.

## 5. MAINTENANCE

Regular maintenance will prolong the life and performance of your shifter.

### 5.1 Cleaning

- Wipe down the shifter body and levers with a clean, damp cloth after rides, especially in muddy or dusty conditions.
- Avoid using high-pressure washers directly on the shifter, as this can force water and contaminants into the internal mechanisms.

### 5.2 Lubrication

- Periodically check the shift cable for fraying or corrosion. Replace the cable if any damage is observed.
- Apply a light lubricant to the exposed sections of the shift cable and the pivot points of the shifter levers to ensure smooth operation.

### 5.3 Cable Tension Adjustment

If shifting becomes imprecise, adjust the cable tension using the barrel adjuster located on the shifter or derailleur. Turn the barrel adjuster counter-clockwise to increase tension (for slow up-shifts) or clockwise to decrease tension (for slow down-shifts).

## 6. TROUBLESHOOTING

Here are solutions to common issues you might encounter:

Problem	Possible Cause	Solution
Shifter feels stiff or sluggish	Dirty/corroded cable or housing, lack of lubrication	Clean and lubricate cable/housing. Replace if severely corroded.
Inaccurate or missed shifts	Incorrect cable tension, bent derailleur hanger, worn chain/cassette	Adjust cable tension using barrel adjuster. Check derailleur hanger alignment. Inspect and replace worn drivetrain components.

Problem	Possible Cause	Solution
Shifter lever gets stuck or doesn't return	Internal mechanism obstruction, debris, or lack of lubrication	Clean around the levers. Apply a small amount of lubricant to the pivot points. If the issue persists, professional inspection may be required.

## 7. SPECIFICATIONS

Feature	Detail
Model Name	ADVENT Trail Trigger Pro Shifter
Part Number	MSH-SL-M9295-R
Speed	1x9 Speed
Compatibility	microSHIFT ADVENT Drivetrains Only
Hand Orientation	Right
Material	Aluminum
Color	Black
Item Weight	172 Grams
Product Dimensions (LxW)	0.39" x 0.39"

## 8. WARRANTY INFORMATION

This microSHIFT product is covered by a **Limited Warranty**. For specific terms, conditions, and duration of the warranty, please refer to the official microSHIFT website or contact microSHIFT customer support. Keep your proof of purchase for warranty claims.

## 9. CUSTOMER SUPPORT

If you encounter any issues not covered in this manual or require further assistance, please visit the official microSHIFT website for support resources, FAQs, and contact information. You can also consult with a qualified bicycle mechanic for professional service.

