

## microSHIFT DS85

# microSHIFT DS85 Right Twist Shifter User Manual

Model: DS85 (Part Number: MSH-DS85-8R)

## 1. PRODUCT OVERVIEW

The microSHIFT DS85 is an 8-speed right twist shifter designed for bicycle flat bar systems. It features an optical gear indicator for clear gear selection and is compatible with Shimano 8-speed mountain and road systems. This shifter is intended for the right-hand side of the handlebar only and includes the necessary shift cables for installation.



Image 1.1: The microSHIFT DS85 Right Twist Shifter, showing its ergonomic design and optical gear indicator.

## 2. KEY FEATURES

- **8-Speed Compatibility:** Designed for 8-speed drivetrain systems.
- **Right Shifter Only:** Specifically for the right side of the handlebar.
- **Optical Gear Indicator:** Provides a clear visual display of the current gear.

- **Shimano Compatible:** Works seamlessly with Shimano 8-speed mountain and road components.
- **Includes Shift Cables:** Comes with necessary cables for immediate installation.
- **Easy Installation:** Engineered for straightforward setup on flat bar bicycles.

### 3. INSTALLATION GUIDE

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

#### 3.1 Required Tools

- Hex key set (typically 4mm or 5mm)
- Cable cutters
- Grease (for cable housing ends)
- Small screwdriver (for cable pinch bolt)

#### 3.2 Installation Steps

1. **Remove Old Shifter (if applicable):** Loosen the clamp bolt on your existing right shifter and slide it off the handlebar. Disconnect the old shift cable from the rear derailleur.
2. **Prepare Handlebar:** Ensure the handlebar area where the shifter will be mounted is clean and free of debris.
3. **Mount New Shifter:** Slide the microSHIFT DS85 twist shifter onto the right side of the handlebar. Position it comfortably for easy access and operation. Tighten the clamp bolt securely, but do not overtighten.
4. **Install Shift Cable:** The DS85 shifter includes a shift cable. Insert the smaller Campagnolo-style wire head of the shift cable into the designated slot on the shifter. Route the cable through the cable housing and along the bicycle frame to the rear derailleur.
5. **Connect to Rear Derailleur:** Thread the shift cable through the rear derailleur's cable guide and secure it with the derailleur's pinch bolt. Ensure there is no slack in the cable.
6. **Adjust Cable Tension:** Shift through all 8 gears, adjusting the cable tension at the derailleur barrel adjuster or inline adjusters until shifting is smooth and precise across all gears. The optical gear indicator should accurately reflect the selected gear.
7. **Trim Excess Cable:** Once shifting is properly adjusted, trim any excess shift cable, leaving approximately 2-3 cm beyond the pinch bolt. Install a cable end cap to prevent fraying.

### 4. OPERATING INSTRUCTIONS

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The microSHIFT DS85 twist shifter provides intuitive gear changes for your 8-speed drivetrain.

- **Shifting Up (Harder Gear):** To shift to a higher gear (smaller cog on the rear cassette, making pedaling harder), twist the grip portion of the shifter forward (away from you).
- **Shifting Down (Easier Gear):** To shift to a lower gear (larger cog on the rear cassette, making pedaling easier), twist the grip portion of the shifter backward (towards you).
- **Optical Gear Indicator:** Observe the optical gear indicator window to confirm your current gear selection. The number displayed corresponds to the gear you are in.
- **Smooth Shifting:** For best results, ease off the pedal pressure slightly while shifting. Avoid shifting under heavy load.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and smooth operation of your shifter.

- **Clean Regularly:** Wipe down the shifter body and grip with a damp cloth to remove dirt and grime.
- **Inspect Cables:** Periodically check the shift cable for fraying, kinks, or corrosion. Replace damaged cables promptly.
- **Lubricate Cables:** Apply a small amount of light lubricant to the exposed sections of the shift cable and the cable housing ends to reduce friction.
- **Check Cable Tension:** Ensure proper cable tension. If shifting becomes sluggish or imprecise, adjust the barrel adjuster on the derailleur or shifter.
- **Avoid Harsh Chemicals:** Do not use strong solvents or abrasive cleaners on the shifter, as they can damage the plastic components or finish.

## 6. TROUBLESHOOTING

Common issues and their potential solutions.

Problem	Possible Cause	Solution
Difficulty Shifting Up (to harder gears)	Insufficient cable tension.	Increase cable tension by turning the barrel adjuster counter-clockwise.
Difficulty Shifting Down (to easier gears)	Excessive cable tension or sticky cable.	Decrease cable tension by turning the barrel adjuster clockwise. Check cable for friction and lubricate or replace if necessary.
Shifter feels stiff or sluggish	Dirty or corroded shift cable/housing.	Clean and lubricate the shift cable and housing. Replace if lubrication does not resolve the issue.
Optical indicator not matching gear	Improper cable tension or derailleur adjustment.	Adjust cable tension and fine-tune rear derailleur limits and indexing.

## 7. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	microSHIFT
Model	DS85
Part Number	MSH-DS85-8R
Drivetrain Speeds	8-Speed
Shifter Style	Twist
Hand Orientation	Right
Compatibility	Shimano 8-speed mountain and road systems

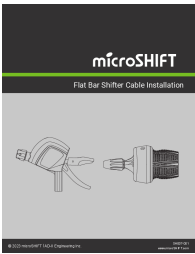
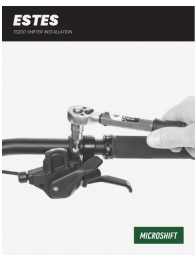
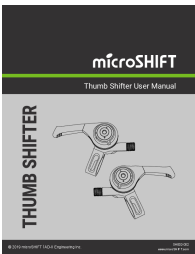
Specification	Detail
Material	Plastic (body), Aluminum (exterior finish)
Color	Black
Item Weight	0.15 Kilograms (approx. 5.3 ounces)
Included Components	Flat Bar-Right Shifter, Shift Cable
Special Feature	Optical Gear Indicator, Easy to Install



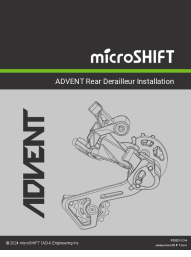
## 8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your microSHIFT DS85 Right Twist Shifter, please refer to the official microSHIFT website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

You can typically find contact information and detailed warranty policies on the manufacturer's official website: [www.microshift.com](http://www.microshift.com)

### Related Documents - DS85

	<p><a href="#">microSHIFT Flat Bar Shifter Cable Installation Guide</a></p> <p>Step-by-step instructions for installing and replacing shifter cables on microSHIFT Flat Bar, Trail Trigger/XPress, and Twist Shift systems. Includes important safety notices and diagrams.</p>
	<p><a href="#">Microshift TS200 Shifter Installation Guide</a></p> <p>Comprehensive installation instructions for the Microshift TS200 bicycle shifter, covering setup, positioning, tightening, and cable routing for optimal performance.</p>
	<p><a href="#">microSHIFT Thumb Shifter User Manual: Installation and Adjustment Guide</a></p> <p>Comprehensive user manual for microSHIFT Thumb Shifters, covering installation, cable routing, adjustments, and friction mode for various mountain and road bike models. Includes detailed step-by-step instructions and part information.</p>

<p>XLE-XCD REAR DERAILLEUR INSTALLATION MANUAL</p> 	<p><a href="#">microSHIFT XLE-XCD Rear Derailleur Installation Manual</a></p> <p>Comprehensive installation guide for the microSHIFT XLE-XCD rear derailleur, covering attachment, adjustments, cable routing, and chain sizing for optimal bicycle performance.</p>
<p>R8, R9, R10 REAR DERAILLEUR INSTALLATION</p> 	<p><a href="#">microSHIFT R8, R9, R10 Rear Derailleur Installation Guide   Bicycle Component Setup</a></p> <p>A detailed guide for installing and adjusting microSHIFT R8, R9, and R10 rear derailleurs on bicycles. Covers tools, attachment, cable routing, chain sizing, and limit screw adjustments for optimal performance.</p>
	<p><a href="#">microSHIFT ADVENT Rear Derailleur Installation Guide</a></p> <p>Comprehensive installation guide for the microSHIFT ADVENT rear derailleur, detailing steps for attachment, limit screw adjustments, cable routing, chain sizing, and shifting optimization. Includes required tools and version-specific instructions for bicycle mechanics.</p>