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microSHIFT Sword 1x10 Groupset, Shifters, M Cage 1x RD, Alloy 48T Cassette, Crankset Not Included

microSHIFT Sword 1x10-Speed Groupset User Manual

Model: Sword 1x10 Groupset, Shifters, M Cage 1x RD, Alloy 48T Cassette

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your microSHIFT Sword 1x10-Speed Groupset. This groupset is designed for gravel cycling, offering a wide gear range, secure chain retention, and comfortable ergonomics for extended rides.



Image: The complete microSHIFT Sword 1x10-Speed Groupset, featuring the integrated brake/shifters, the Sword clutch rear derailleur, and the 11-48t alloy cassette. Note that the crankset is not included with this groupset.

SETUP AND INSTALLATION

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

1. Shifter Installation

- **Mounting:** The Sword shifters are designed for drop bars and feature a clamp-on mount. Position them ergonomically on your handlebars, ensuring comfortable access to brake levers and shift paddles.
- **Cable Routing:** These shifters support internal cable routing. Carefully route brake and shift cables through your frame as per your bicycle's design. Ensure cables move freely without kinks or excessive friction.
- **Brake Compatibility:** The shifters are compatible with road pull disc and rim brakes. Connect your brake cables and adjust for proper lever feel and braking power.

- **Lever Reach Adjustment:** Adjust the lever reach to suit your hand size for all-day comfort. Consult the specific instructions provided with the shifters for detailed adjustment procedures.

2. Rear Derailleur Installation

- **Mounting:** Attach the Sword 1x clutch rear derailleur to your bike's derailleur hanger. Ensure it is securely tightened to the manufacturer's specifications.
- **Cable Connection:** Connect the shift cable from the right shifter to the rear derailleur.
- **Chain Length:** Proper chain length is critical for the 1x system with a clutch derailleur. Install the chain, ensuring it is long enough to wrap around the largest cog on the cassette and the largest chainring (if applicable, though this is a 1x system, so only one chainring). The chain should be taut but not overly stretched in the largest cog. Refer to microSHIFT's specific guidelines for precise chain length calculation for 1x systems.

3. Cassette Installation

- **Mounting:** Install the Advent X 10-speed 11-48t alloy cassette onto your compatible freehub body. Ensure all cogs are correctly aligned and seated.
- **Lockring:** Secure the cassette with the provided lockring, tightening it to the specified torque (typically 40 Nm) using a cassette tool and torque wrench.

OPERATING INSTRUCTIONS

Shifting

- The Sword 1x10 groupset uses a single right-hand shifter for all gear changes.
- **Upshifting (to smaller cogs/harder gears):** Push the smaller lever inwards towards the handlebar. Each click will shift the chain to a smaller cog.
- **Downshifting (to larger cogs/easier gears):** Push the larger lever inwards towards the handlebar. Each click will shift the chain to a larger cog.
- Shift smoothly and avoid excessive force. Anticipate terrain changes to shift before climbing or accelerating.

Clutch Rear Derailleur

- The Sword rear derailleur features a clutch mechanism designed to provide chain security and reduce chain slap, especially on rough terrain.
- The clutch is typically engaged by default. There is usually a lever or switch on the derailleur body to engage or disengage the clutch. For riding, ensure the clutch is engaged.
- Disengaging the clutch can make wheel removal easier, but remember to re-engage it before riding.

MAINTENANCE

Regular maintenance extends the life and performance of your groupset.

- **Cleaning:** After each ride, especially in wet or dirty conditions, clean your chain, cassette, and derailleur. Use a degreaser for the drivetrain and a mild soap solution for other components. Rinse thoroughly and dry.
- **Lubrication:** Lubricate your chain regularly with a suitable bicycle chain lubricant. Apply lubricant to each link, spin the cranks to distribute, and wipe off excess.
- **Cable Inspection:** Periodically check shift and brake cables for fraying, corrosion, or stiffness. Replace worn cables promptly to maintain crisp shifting and braking.
- **Derailleur Hanger Alignment:** A bent derailleur hanger can cause poor shifting. If shifting issues persist after

adjustment, check hanger alignment.

- **Clutch Maintenance:** The clutch mechanism is generally maintenance-free, but keep the derailleur body clean to prevent debris from interfering with its function.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------------|---|---|
| Poor Shifting / Ghost Shifting | Incorrect cable tension Bent derailleur hanger Dirty/worn cables or housing Worn chain or cassette | Adjust barrel adjuster on shifter or derailleur. Check and align/replace derailleur hanger. Clean or replace cables and housing. Inspect and replace worn drivetrain components. |
| Chain Drops / Chain Slap | Clutch disengaged Incorrect chain length Worn chainring (if applicable) | Ensure derailleur clutch is engaged. Verify chain length is correct for 1x system. Inspect and replace worn chainring. |
| Brake Lever Feels Spongy | Loose brake cable Air in hydraulic system (if disc brakes) Worn brake pads | Tighten brake cable at caliper/lever. Bleed hydraulic brakes (professional service recommended). Replace brake pads. |

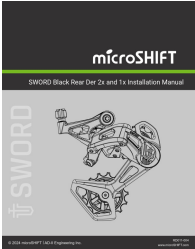
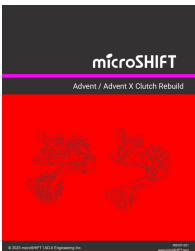
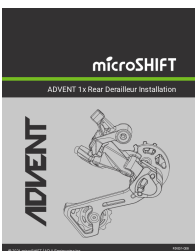

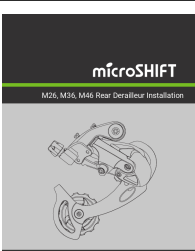
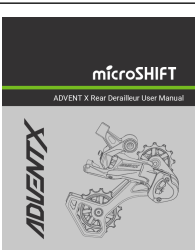
SPECIFICATIONS

- **Groupset Type:** 1x10-Speed Gravel
- **Included Components:**
 - Sword 1x10-Speed Integrated Brake/Shifters (Drop Bar)
 - Sword 1x Clutch Rear Derailleur (Medium Cage)
 - Advent X 10-Speed 11-48t Alloy Cassette
- **Cassette Gear Range:** 11-48t
- **Shifter Compatibility:** Road pull disc and rim brakes
- **Derailleur Features:** Clutch mechanism for chain security
- **Color:** Gray
- **Material:** Metal, Aluminum (Case Material)
- **Mounting Type (Shifters):** Clamp-On Mount
- **Approximate Package Weight:** 2113 Grams
- **Approximate Package Dimensions:** 10.63 x 9.45 x 7.09 inches (L x W x H)
- **Crankset:** Not included

WARRANTY AND SUPPORT

The microSHIFT Sword 1x10-Speed Groupset comes with a**4-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact microSHIFT customer service directly or visit their official website for detailed contact information and warranty terms. For additional resources, including detailed installation videos and technical documents, please refer to the official microSHIFT support channels.

Related Documents - Sword 1x10 Groupset, Shifters, M Cage 1x RD, Alloy 48T Cassette, Crankset Not Included

| | |
|---|---|
|  | <p>microSHIFT SWORD Black Rear Derailleur 2x and 1x Installation Manual</p> <p>Comprehensive installation guide for the microSHIFT SWORD Black Rear Derailleur, covering 2x and 1x setups. Includes steps for attachment, limit screw adjustment, cable routing, chain sizing, and shifting adjustments.</p> |
|  | <p>microSHIFT Advent / Advent X Clutch Rebuild Guide</p> <p>Detailed instructions for rebuilding the clutch mechanism on microSHIFT Advent and Advent X rear derailleurs. Includes step-by-step procedures, important safety notices, and component maintenance.</p> |
|  | <p>microSHIFT ADVENT 1x Rear Derailleur Installation Guide RD001-008</p> <p>Step-by-step installation instructions for the microSHIFT ADVENT 1x Rear Derailleur (model RD001-008). Covers tools, attachment, cable setup, limit and B-tension adjustments, chain sizing, and service parts.</p> |
|  | <p>microSHIFT R8, R9, R10 Rear Derailleur Installation Guide Bicycle Component Setup</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>microSHIFT M26, M36, M46 Rear Derailleur Installation Guide</p> <p>Comprehensive installation guide for microSHIFT M26, M36, and M46 rear derailleurs, covering attachment, cable routing, chain installation, and adjustments for optimal performance.</p> |
|  | <p>microSHIFT ADVENT X Rear Derailleur User Manual</p> <p>A comprehensive user manual for the microSHIFT ADVENT X Rear Derailleur, covering installation, adjustment, and troubleshooting. Includes detailed steps for attachment, limit screw adjustments, cable installation, chain sizing, and B-tension adjustment.</p> |

