

SRAM X5 9 Speed Long Cage Rear Derailleur

SRAM X5 9 Speed Long Cage Rear Derailleur Instruction Manual

Model: X5 9 Speed Long Cage Rear Derailleur

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SRAM X5 9 Speed Long Cage Rear Derailleur. Designed for reliable and precise shifting, this component is an essential part of your bicycle's drivetrain. Please read this manual thoroughly before attempting any installation or adjustment.

SAFETY INFORMATION

Always wear appropriate safety gear when working on your bicycle. Ensure your bike is stable and secure before performing any maintenance or adjustments. Improper installation or adjustment can lead to component failure, injury, or damage to your bicycle. If you are unsure about any step, consult a professional bicycle mechanic.

- Always use the correct tools for installation and adjustment.
- Do not overtighten bolts, as this can strip threads or damage components.
- Keep hands and clothing clear of moving parts, especially the chain and cogs, when the wheel is spinning.
- Regularly inspect your derailleur for signs of wear or damage. Replace worn parts immediately.

WHAT'S IN THE BOX

Your SRAM X5 9 Speed Long Cage Rear Derailleur package should contain the following:

- SRAM X5 9 Speed Long Cage Rear Derailleur (1 unit)

Note: Additional tools, cables, or housing are sold separately.

SETUP AND INSTALLATION

The SRAM X5 Rear Derailleur is designed for 9-speed drivetrains and features Direct Route Technology for lighter effort shifting and a 1:1 Exact Actuation ratio for precise gear changes. Proper installation and adjustment are crucial for optimal performance.

Tools Required:

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

Installation Steps:

1. **Remove Old Derailleur (if applicable):** Shift to the smallest cog, loosen the cable anchor bolt, and remove the derailleur from the hanger.
2. **Install New Derailleur:** Thread the new SRAM X5 derailleur onto the derailleur hanger. Ensure it is securely tightened to the manufacturer's specifications (typically 8-10 Nm).
3. **Install Chain:** Route the chain through the derailleur cage.
4. **Attach Derailleur Cable:** Route the shift cable through the derailleur's cable guide and secure it with the cable anchor bolt. Do not overtighten.
5. **Adjust Limit Screws:**
 - **High Limit (H) Screw:** Adjust so the upper guide pulley is directly aligned with the center of the smallest cog when viewed from the rear.
 - **Low Limit (L) Screw:** Adjust so the upper guide pulley is directly aligned with the center of the largest cog when viewed from the rear.
6. **Adjust B-Tension Screw:** This screw adjusts the gap between the upper guide pulley and the largest cog. Adjust to achieve a small, consistent gap (typically 5-6mm) for smooth shifting across all gears.
7. **Adjust Cable Tension:** Use the barrel adjuster on the shifter or derailleur to fine-tune cable tension. Shift through all gears, ensuring smooth and precise engagement.



Image: The SRAM X5 9 Speed Long Cage Rear Derailleur, showcasing its design and components.

Your browser does not support the video tag.

Video: A product overview of the SRAM X5 Rear Derailleur, demonstrating its features and movement. This video provides a visual guide to the derailleur's design and functionality, which can be helpful during installation and adjustment.

OPERATING INSTRUCTIONS

The SRAM X5 Rear Derailleur operates in conjunction with a compatible 9-speed shifter. To shift gears:

1. **Upshifting (to a smaller cog):** Push the shifter lever to move the chain to a smaller, higher gear cog.
2. **Downshifting (to a larger cog):** Push the other shifter lever (or release mechanism) to move the chain to a larger, lower gear cog.

Always pedal forward while shifting to ensure smooth chain engagement and prevent damage to the drivetrain. Avoid shifting under heavy load, as this can cause premature wear.

MAINTENANCE

Regular maintenance will prolong the life and performance of your SRAM X5 Rear Derailleur.

- **Cleaning:** Keep the derailleur, especially the pulleys and cage, clean from dirt and grime. Use a brush and a bike-specific degreaser, then rinse and dry.
- **Lubrication:** Apply a small amount of chain lubricant to the pivot points of the derailleur and the pulley bearings periodically. Avoid over-lubricating, which can attract dirt.
- **Inspection:** Regularly check for bent hanger, loose bolts, worn pulleys, or any signs of damage. A bent derailleur hanger is a common cause of poor shifting and should be straightened or replaced by a professional.
- **Cable and Housing:** Inspect shift cables and housing for fraying, kinks, or corrosion. Replace them if necessary to maintain smooth shifting.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Difficulty shifting to smaller cogs (upshifting)	Too much cable tension or H-limit screw too tight.	Decrease cable tension (turn barrel adjuster clockwise) or loosen H-limit screw.
Difficulty shifting to larger cogs (downshifting)	Too little cable tension or L-limit screw too tight.	Increase cable tension (turn barrel adjuster counter-clockwise) or loosen L-limit screw.
Chain rubs on derailleur cage or jumps gears	Incorrect limit screw adjustment, bent derailleur hanger, or incorrect B-tension.	Re-adjust limit screws and B-tension. Check derailleur hanger for alignment; replace if bent.
Noisy shifting	Lack of lubrication, dirty components, or misaligned derailleur.	Clean and lubricate the drivetrain. Check and adjust derailleur alignment and tension.

SPECIFICATIONS

- **Brand:** SRAM
- **Model:** X5 9 Speed Long Cage Rear Derailleur
- **Part Number:** 00.7515.082.000
- **Compatibility:** 9-Speed Drivetrains
- **Cage Length:** Long Cage
- **Actuation:** 1:1 Exact Actuation
- **Technology:** Direct Route Technology
- **Material:** Aluminum, Plastic
- **Color:** Black
- **Mounting Type:** Braze-On Mount
- **Item Weight:** 0.3 Kilograms

WARRANTY AND SUPPORT

SRAM products are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, conditions, and to register your product, please visit the official SRAM website or contact their customer support. Keep your proof of purchase for warranty claims.

For technical assistance, spare parts, or further inquiries, please refer to the contact information provided on the official SRAM website.