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SRAM X3

SRAM X3 Rear Derailleur Instruction Manual

PRODUCT OVERVIEW

The SRAM X3 Rear Derailleur is designed for reliable and precise gear shifting on 7, 8, or 9-speed bicycle drivetrains. Featuring a long cage design, it accommodates a wide range of cassette sizes, making it suitable for various cycling disciplines including mountain biking, hybrid, and touring. Its robust construction ensures lasting performance and smooth operation.



Image: The SRAM X3 Rear Derailleur in black, showcasing its long cage design and robust construction.

KEY FEATURES

- **Durable Construction:** Utilizes aluminum alloy for reliable shifting and long-lasting durability.
- **Precise 1:1 Actuation Ratio:** Ensures accurate and responsive gear shifts across 7, 8, or 9-speed drivetrain setups.

- **Long Cage Design:** Compatible with larger cassette sprockets up to 34 teeth, ideal for mountain, hybrid, and touring bikes.
- **Standard 10x1 Mounting Interface:** Provides easy compatibility with most BMX, mountain, and hybrid bike frames.
- **Innovative Gear Indexing Technology:** Delivers smooth, light-action shifting, reducing rider effort.

SETUP AND INSTALLATION

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

1. **Check Derailleur Hanger:** Ensure your bike's derailleur hanger is straight and undamaged. A bent hanger will compromise shifting performance.
2. **Attach Derailleur:** Secure the SRAM X3 Rear Derailleur to the derailleur hanger using a 5mm hex wrench. Tighten to the manufacturer's recommended torque specifications.
3. **Install Chain:** If replacing a chain, ensure it is the correct length for your drivetrain. A chain breaker tool may be required. Consider upgrading to a quick link for easier future maintenance.
4. **Route Cable:** Route the shift cable through the appropriate housing and attach it to the derailleur's cable anchor bolt.
5. **Adjust Limit Screws:** Set the high (H) and low (L) limit screws to prevent the chain from shifting beyond the smallest and largest cogs, respectively.
6. **Adjust B-Tension Screw:** Adjust the B-tension screw to ensure proper clearance between the upper jockey wheel and the largest cog of the cassette.
7. **Fine-Tune Shifting:** Use the barrel adjuster on the shifter or derailleur to fine-tune cable tension for smooth and precise shifts across all gears.

For detailed visual guidance, consult a professional bike mechanic or refer to SRAM's official installation videos for similar derailleur models.

OPERATING INSTRUCTIONS

The SRAM X3 Rear Derailleur operates with a 1:1 actuation ratio, providing consistent and reliable shifting. To operate:

- **Shifting Up (to a smaller cog):** Press the smaller lever or twist the shifter grip to move the chain to a smaller, harder-to-pedal cog. This is typically used for increasing speed on flat terrain or downhill.
- **Shifting Down (to a larger cog):** Press the larger lever or twist the shifter grip to move the chain to a larger, easier-to-pedal cog. This is ideal for climbing hills or reducing effort.
- **Smooth Shifting:** Always ease off the pedals slightly when shifting to allow the chain to move smoothly between cogs. Avoid shifting under heavy load.

MAINTENANCE

Regular maintenance extends the life and performance of your derailleur:

- **Cleaning:** Periodically clean the derailleur, especially the jockey wheels, to remove dirt and grime. Use a degreaser and a brush, then rinse and dry thoroughly.
- **Lubrication:** Apply a small amount of bicycle-specific lubricant to the pivot points of the derailleur and the chain. Wipe off any excess.
- **Cable and Housing:** Inspect the shift cable and housing for fraying, kinks, or corrosion. Replace them if any

damage is found to maintain smooth shifting.

- **Hanger Alignment:** Regularly check the derailleur hanger for alignment. Even minor bends can affect shifting.
- **Bolt Tightness:** Ensure all mounting bolts are securely tightened to prevent movement and ensure safety.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor or Slow Shifting	Incorrect cable tension, dirty/worn cable or housing, bent derailleur hanger.	Adjust barrel adjuster, replace cable/housing, check and straighten hanger.
Chain Skipping or Jumping	Worn chain/cassette, incorrect limit screw settings, bent derailleur hanger.	Replace worn components, adjust limit screws, check and straighten hanger.
Derailleur Noise	Lack of lubrication, misaligned derailleur, B-tension screw incorrect.	Lubricate pivot points, adjust B-tension, check hanger alignment.
Cannot Shift to Smallest/Largest Cog	Limit screws set too tight.	Loosen the respective H or L limit screw slightly.

SPECIFICATIONS

Brand: SRAM

Model Name: 10a Rd X.3 Black

Part Number: RDP301

Speed Compatibility: 7, 8, 9 Speed

Cage Length: Long Cage

Color: Black

Material: Aluminum Alloy

Mounting Type: Standard

Product Dimensions: 10"L x 8"W x 2"H

Item Weight: 0.6 Pounds (approximately 0.27 kg)

UPC: 710845622175

WARRANTY AND SUPPORT

The SRAM X3 Rear Derailleur comes with a **Limited Warranty**. For specific warranty terms, conditions, and to register your product, please refer to the official SRAM website or contact SRAM customer support directly. Keep your proof of purchase for warranty claims.

For additional support, technical documents, or to locate an authorized service center, visit the [SRAM official website](#).

