

SRAM 00.5218.006.002

SRAM Force 1 Hydraulic Disc Brake and Lever

MODEL: 00.5218.006.002

Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your SRAM Force 1 Left Hydraulic Disc Brake and Lever. Designed for high-performance cycling, this system offers precise stopping power and reliable modulation. Please read this manual thoroughly before installation and use to ensure optimal performance and rider safety.

Safety Information

- **Professional Installation Recommended:** For optimal safety and performance, installation should be performed by a qualified bicycle mechanic.
- **Torque Specifications:** Always adhere to the manufacturer's specified torque values for all fasteners. Overtightening or undertightening can lead to component failure.
- **Regular Inspection:** Periodically inspect the brake system for wear, damage, or loose components. Replace worn parts immediately.
- **Brake Fluid:** Use only DOT 5.1 brake fluid as specified by SRAM. Do not mix different types of brake fluid.
- **Bed-in Procedure:** New brake pads and rotors require a bed-in period to achieve full braking power. Follow the bed-in procedure outlined by SRAM.
- **Wet Conditions:** Braking performance is reduced in wet or adverse conditions. Exercise caution and allow for longer stopping distances.

Package Contents

Verify that all components are present before beginning installation:

- SRAM Force 1 Left Hydraulic Brake Lever
- SRAM Force Flat Mount Caliper
- Hydraulic Hose (950mm length)
- Steel-backed Organic Brake Pads (pre-installed or separate)

- Mounting Hardware (bolts, washers)

Setup and Installation

Follow these steps for proper installation. Refer to SRAM's official technical manuals for detailed diagrams and torque specifications.

1. **Unpacking:** Carefully remove all components from the packaging, ensuring no parts are damaged.
2. **Mounting the Lever:** Secure the brake lever to the left side of your handlebar. Position it for comfortable reach and access to the lever blade. Tighten the clamp bolt to the specified torque.
3. **Mounting the Caliper:** Attach the flat mount caliper to the bicycle frame or fork using the appropriate flat mount bolts. Ensure the caliper is correctly aligned over the brake rotor.
4. **Hose Routing:** Route the hydraulic hose from the lever to the caliper. Ensure the hose is not kinked, pinched, or excessively long. Secure the hose with frame guides if available.
5. **Hose Connection:** Connect the hydraulic hose to both the lever and caliper, ensuring a secure, leak-free connection.
6. **Bleeding the System:** Perform a hydraulic bleed to remove any air from the system. This is a critical step for proper brake function. Refer to SRAM's official bleeding instructions for the specific procedure.
7. **Pad Installation:** If not pre-installed, insert the steel-backed organic brake pads into the caliper. Ensure the retention pin is securely in place.
8. **Reach Adjustment:** Adjust the lever reach to suit your hand size and preference using the integrated adjustment mechanism.



An image showing the SRAM Force 1 hydraulic disc brake lever (right) and the flat mount caliper (left). The lever is black with 'SRAM' and 'Force' branding, featuring an ergonomic hood. The caliper is grey with 'SRAM Force' branding, designed

Operation

The SRAM Force 1 hydraulic disc brake system provides powerful and controllable braking. Familiarize yourself with its operation in a safe environment before riding.

- **Braking Technique:** Apply brake pressure smoothly and progressively. Avoid sudden, hard braking, especially in wet or loose conditions, to prevent skidding.
- **Modulation:** The hydraulic system offers excellent modulation, allowing you to fine-tune braking force. Practice to understand the system's feel and response.
- **Lever Feel:** The brake lever should feel firm and consistent throughout its travel. A spongy or inconsistent feel may indicate air in the system or worn components.

Maintenance

Regular maintenance ensures the longevity and safe operation of your brake system.

- **Regular Cleaning:** Keep the caliper, brake pads, and rotor clean. Avoid contamination with oil, grease, or cleaning agents not specifically designed for disc brakes.
- **Pad Wear Check:** Regularly inspect brake pads for wear. Replace pads when the friction material is worn down to the wear indicator or if braking performance degrades significantly.
- **Hydraulic Fluid Check:** Periodically check the hydraulic fluid level and condition. If the lever feel becomes inconsistent or spongy, bleed the system.
- **Hose Inspection:** Inspect the hydraulic hose for any signs of damage, kinks, abrasions, or leaks. Replace damaged hoses immediately.
- **Fastener Torque:** Periodically check that all mounting bolts (lever, caliper, rotor) are tightened to the manufacturer's specified torque settings.

Troubleshooting

Common issues and their potential solutions:

- **Spongy Lever Feel:**
Cause: Air in the hydraulic system.
Solution: Bleed the brake system according to SRAM's official instructions.
- **Poor Braking Power:**
Cause: Contaminated pads/rotor, worn pads, or air in the system.
Solution: Clean or replace pads/rotor, bleed the system, or replace worn pads.
- **Squealing Noise:**
Cause: Contaminated pads/rotor, misaligned caliper, or new pads bedding in.
Solution: Clean or replace pads/rotor, align the caliper, or allow for the bed-in period.
- **Lever Not Returning:**
Cause: Obstruction, damaged lever pivot, or internal hydraulic issue.
Solution: Check for obstructions, inspect lever mechanism, or consult a professional mechanic.

Specifications

Feature	Specification
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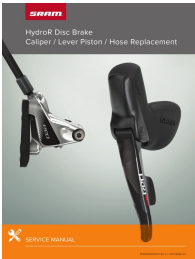
Feature	Specification
Brand	SRAM
Model Number	00.5218.006.002
Hand Orientation	Left
Brake Type	Hydraulic Disc
Mount Type	Flat Mount
Lever Material	Carbon
Caliper Material	Aluminum
Brake Pad Type	Steel-backed Organic
Hose Length	950mm
Item Weight	0.5 Kilograms
Color	Black

Warranty and Support

SRAM products are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, product registration, and detailed technical support, please visit the official SRAM website or contact your authorized SRAM dealer. Always retain your proof of purchase for any warranty claims.

For the most up-to-date technical documentation, service guides, and video tutorials, please visit www.sram.com.

Related Documents - 00.5218.006.002

	<p>SRAM Component Serial Number Location Guide</p> <p>Find and interpret serial numbers on SRAM, RockShox, Zipp, AVID, Truvativ, and Quarq bicycle components with this comprehensive location guide.</p>
	<p>SRAM HydroR Disc Brake Service Manual: Caliper, Lever Piston, and Hose Replacement Guide</p> <p>Comprehensive service manual for SRAM HydroR disc brake systems, detailing procedures for caliper, lever piston, and hydraulic hose replacement. Includes parts, tools, safety instructions, and troubleshooting for optimal brake performance.</p>



[SRAM 2024 Spare Parts Catalog](#)

Comprehensive 2024 spare parts catalog from SRAM, detailing components, part numbers, and diagrams for bicycle drivetrains, brakes, wheels, and more. Find the exact replacement parts for your SRAM cycling equipment.



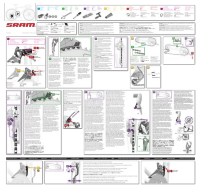
[SRAM 1x Road Systems User Manual: Installation and Adjustment Guide](#)

Comprehensive user manual for SRAM 1x Road Systems, detailing installation, adjustment, and maintenance procedures for bicycle drivetrain components. Includes step-by-step instructions and safety warnings.



[SRAM Bicycle Components Catalog and Parts Guide](#)

Comprehensive catalog of SRAM bicycle components, including rear derailleurs, front derailleurs, shifters, levers, brake calipers, cranks, chainrings, cassettes, wheels, and hubs for both road and mountain bikes. Features detailed part numbers and descriptions for each component.



[SRAM 22 Derailleurs Installation and Maintenance Guide](#)

Comprehensive guide for the installation, adjustment, and maintenance of SRAM 22 derailleurs, covering front and rear derailleur setup, chain retention, and general maintenance procedures.