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SHIMANO EM61001JRRXMA170

Shimano Deore BR-M6100 Disc Brake Set User Manual

Model: EM61001JRRXMA170

Introduction

The Shimano Deore BR-M6100 Disc Brake Set is engineered to provide rapid and responsive braking performance for all-mountain riding. This system incorporates Shimano's Servo Wave Action, which efficiently moves the brake pads to the rotor contact point with minimal lever pull, allowing for a broader range of lever stroke to be effective for braking modulation. The M6100's I-SPEC EV lever design offers optimized tuning for various fit options with the shift lever and enhances stability of the brake lever body on the handlebar during heavy braking. The M6100 caliper features a powerful two-piston design and integrates Shimano's ICE Tech cooling system for efficient heat dissipation, ensuring reliable and consistent braking performance. This set includes the caliper, lever, pre-bled hose, and necessary mounting parts.

What's in the Box

Upon opening the package, verify that all components are present and undamaged. The Shimano Deore BR-M6100 Disc Brake Set typically includes the following:

- Brake Caliper (2-piston design with ICE Technologies)
- Brake Lever (I-SPEC EV compatible)
- Pre-bled Hydraulic Hose
- Installation Hardware (e.g., bolts, olives, insert pins)



Image: The retail packaging for the Shimano Deore BR-M6100 Disc Brake Set, showing the product name and key features on the box.



Image: All components of the Shimano Deore BR-M6100 Disc Brake Set laid out, including the brake levers, calipers, and hydraulic hoses, along with small parts for installation.

Key Features

- **Lever:** I-SPEC EV for optimized cockpit layout and enhanced ergonomics.
- **Lever Adjustability:** 10mm reach adjustment for personalized fit.
- **Actuation:** Servo Wave mechanism for quick pad engagement and increased modulation.
- **Caliper:** 2-piston design with ICE Technologies for consistent braking power and heat management.
- **Mount Type:** Post mount for easy installation on compatible frames and forks.



Image: A close-up view of the Shimano Deore BR-M6100 brake lever, highlighting its ergonomic design and adjustment points.



Image: The Shimano Deore BR-M6100 brake caliper connected to its hydraulic hose, showing the compact design and robust construction.

Setup and Installation

Proper installation is crucial for optimal performance and safety. If you are unfamiliar with hydraulic disc brake installation, it is recommended to seek assistance from a qualified bicycle mechanic.

1. **Mounting the Lever:** Secure the brake lever to your handlebar. The I-SPEC EV design allows for flexible positioning to integrate with your shift lever. Ensure the lever is positioned for comfortable and effective reach.
2. **Mounting the Caliper:** Attach the brake caliper to the frame or fork using the appropriate post-mount adapters and bolts. Ensure the caliper is aligned correctly over the rotor, allowing for even pad clearance.
3. **Connecting the Hose:** The brake set comes with a pre-bled hose. Carefully route the hose along your frame, securing it with cable ties or frame guides. Connect the hose to the lever and caliper, ensuring a tight, leak-free connection.
4. **Bleeding the System (if necessary):** Although pre-bled, air can sometimes enter the system during installation or transport. If the lever feels spongy, the system may need to be bled using Shimano mineral oil and a bleeding kit. Follow Shimano's official bleeding procedure for the BR-M6100.
5. **Adjusting Reach:** Use the reach adjustment screw on the lever to set the distance from the handlebar to the lever blade, optimizing it for your hand size and riding preference.

Operating Instructions

The Shimano Deore BR-M6100 Disc Brakes are designed for intuitive operation, providing powerful and controlled stopping force.

1. **Brake Engagement:** Gently squeeze the brake lever to engage the brakes. The Servo Wave Action ensures quick pad

contact with the rotor.

2. **Modulation:** Apply progressive pressure to the lever for controlled deceleration. The hydraulic system allows for fine modulation, enabling you to feather the brakes for optimal speed control without locking up the wheels.
3. **Emergency Braking:** In situations requiring immediate stopping, apply firm and even pressure to both brake levers. Be mindful of weight distribution to prevent skidding, especially on loose or wet surfaces.
4. **Bedding-in New Pads/Rotors:** New brake pads and rotors require a bedding-in period to achieve full braking power. Perform several moderate stops from a cruising speed, gradually increasing braking force. Avoid hard, prolonged braking during this period.

Maintenance

Regular maintenance ensures the longevity and performance of your Shimano Deore BR-M6100 Disc Brake Set.

- **Cleaning:** Keep brake calipers and rotors clean. Use a clean cloth and isopropyl alcohol to remove dirt, oil, or grime. Avoid using harsh chemicals or lubricants near brake components.
- **Pad Inspection:** Regularly check brake pad wear. Replace pads when the friction material is worn down to the wear indicator line or if braking performance diminishes.
- **Rotor Inspection:** Inspect rotors for wear, damage, or excessive heat discoloration. Replace rotors if they are bent, cracked, or below the minimum thickness specified by Shimano.
- **Fluid Check:** While the system is sealed, periodically check for any signs of fluid leaks around the levers, hoses, or calipers. If leaks are detected, consult a mechanic.
- **Bleeding:** If brake feel becomes spongy or inconsistent, the hydraulic system may require bleeding to remove air bubbles. Use only genuine Shimano mineral oil.
- **Lever Pivot Lubrication:** Apply a small amount of appropriate grease to the lever pivot points to ensure smooth operation.

Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Spongy Brake Lever	Air in the hydraulic system	Bleed the brake system.
Reduced Braking Power	Worn brake pads, contaminated pads/rotor, air in system	Inspect/replace pads, clean pads/rotor with isopropyl alcohol, bleed system.
Brake Squeal/Noise	Contaminated pads/rotor, misaligned caliper, worn pads	Clean pads/rotor, realign caliper, replace worn pads.
Brake Rubbing	Misaligned caliper, bent rotor, sticky caliper pistons	Realign caliper, true or replace rotor, clean/lubricate pistons.

If you encounter issues not listed here or are unable to resolve a problem, consult a professional bicycle mechanic.

Specifications

Feature	Specification
Brand	SHIMANO

Feature	Specification
Model Name	EM61001JRRXMA170
Material	Metal (Aluminum for exterior finish and handle)
Color	Metallic
Product Dimensions	11"L x 10"W (Item Dimensions LxWxH: 11 x 10 x 10 inches)
Item Weight	1.3 Pounds
Handle Attachment Mechanism	Post-mount
UPC	192790687056
Included Components	Brake Caliper, Installation Hardware
Special Feature	Easy to Install

Warranty Information

The Shimano Deore BR-M6100 Disc Brake Set is covered by a **Limited Warranty**. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the official Shimano warranty documentation included with your product or visit the official Shimano website. Keep your proof of purchase for warranty purposes.

Support and Contact

For technical support, spare parts, or further assistance with your Shimano Deore BR-M6100 Disc Brake Set, please contact Shimano customer service or visit their official website. You can also consult your local authorized Shimano dealer or bicycle mechanic for professional service and advice.
Official Shimano Website: bike.shimano.com

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