

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

> [SHIMANO](#) /

> [SHIMANO Ultegra 6800 Road Brake Shoe Set Instruction Manual](#)

SHIMANO Ultegra 6800

SHIMANO Ultegra 6800 Road Brake Shoe Set Instruction Manual

Model: Ultegra 6800

INTRODUCTION

This manual provides instructions for the proper installation, operation, and maintenance of your SHIMANO Ultegra 6800 Road Brake Shoe Set. These brake shoes are designed for caliper-type road bicycle brakes and feature R55C4 cartridge pads with an aluminum pad holder. Understanding these guidelines will ensure optimal braking performance and longevity of your components.



This image displays two SHIMANO Ultegra 6800 Road Brake Shoes. Each shoe consists of a dark gray aluminum holder and a black R55C4 brake pad. One shoe is shown from the top, highlighting the bolt-in attachment mechanism, while the other is shown from the side, detailing the pad's surface and retention screw.

PRODUCT COMPONENTS

The SHIMANO Ultegra 6800 Road Brake Shoe Set includes the following components:

- R55C4 Brake Pads
- Aluminum Pad Holders
- Mounting Hardware (bolts, washers)

SETUP AND INSTALLATION

Proper installation is crucial for safe and effective braking. If you are unsure about any step, consult a professional bicycle mechanic.

Tools Required

- Hex wrench set (typically 5mm or 6mm for brake caliper bolts)
- Small flat-head screwdriver (for pad retention screws)
- Torque wrench (recommended for precise tightening)
- Clean rag

Installation Steps

1. **Remove Old Brake Pads:** Loosen the small retention screw on the brake shoe holder using a flat-head screwdriver. Slide out the old brake pad inserts. If replacing the entire shoe, loosen the main bolt securing the brake shoe to the caliper arm with a hex wrench and remove the old shoe.
2. **Clean Brake Calipers:** Use a clean rag to wipe away any dirt or debris from the brake caliper arms and the area where the brake shoes attach.
3. **Install New Brake Shoes/Pads:** If installing new pads into existing holders, slide the new R55C4 pads into the aluminum holders, ensuring the curved surface matches the rim's curvature and the open end faces the rear of the bike. Secure with the retention screw. If installing new complete brake shoes, attach them to the caliper arms using the main bolt, ensuring the correct orientation for left and right sides.
4. **Adjust Pad Alignment:** Loosen the main bolt slightly, allowing the brake shoe to move. Position the brake pad so it is centered on the rim's braking surface and parallel to the rim. Ensure there is no contact with the tire or spokes.
5. **Set Toe-In (Optional but Recommended):** For optimal performance and to reduce brake squeal, slightly angle the front of the brake pad inward so it contacts the rim just before the rear of the pad. This can be achieved by placing a thin shim (e.g., a business card) under the rear of the pad while tightening the main bolt.
6. **Tighten Bolts:** Once aligned, firmly tighten the main bolt securing the brake shoe to the caliper arm. If using a torque wrench, refer to your caliper's specifications for the correct torque value. Tighten the pad retention screw if applicable.
7. **Test Brakes:** Squeeze the brake levers several times to ensure the pads seat correctly. Check for firm lever feel and effective stopping power. Re-check alignment after initial use.

OPERATION

Proper operation of your brake shoes involves understanding their function and ensuring correct adjustment for consistent and reliable braking.

Brake Adjustment

- **Lever Feel:** Ensure your brake levers provide a firm and consistent feel. If the levers feel spongy or pull too close to the handlebar, the brake cable tension may need adjustment or the system may require bleeding (for hydraulic brakes, though these are for caliper).
- **Pad Contact:** The brake pads should make full and even contact with the rim's braking surface when the brake lever is applied. Uneven contact can lead to reduced braking power and premature wear.
- **Clearance:** When the brake lever is released, the pads should retract fully, providing adequate clearance between the pads and the rim to prevent rubbing.

MAINTENANCE

Regular maintenance extends the life of your brake shoes and ensures consistent braking performance.

- **Regular Cleaning:** Periodically clean the brake pads and rim braking surfaces with a clean cloth to remove dirt, grit, and road grime. Contaminants can reduce braking effectiveness and accelerate wear.
- **Inspect for Wear:** Regularly inspect the brake pads for wear. The R55C4 pads have wear indicator grooves. Replace the pads when these grooves are no longer visible or when the pad material is significantly worn.

- **Check for Damage:** Inspect the aluminum pad holders for any signs of damage, cracks, or bending. Replace any damaged components immediately.
- **Tightness of Fasteners:** Periodically check that all mounting bolts and retention screws are securely tightened.

TROUBLESHOOTING

Addressing common issues can help maintain optimal braking performance.

- **Squealing Brakes:**
 - **Cause:** Contaminated pads/rim, improper toe-in, loose components.
 - **Solution:** Clean pads and rim. Re-adjust toe-in. Ensure all bolts are tightened.
- **Poor Stopping Power:**
 - **Cause:** Worn pads, contaminated pads/rim, incorrect pad alignment, loose cable tension.
 - **Solution:** Replace worn pads. Clean pads and rim. Re-align pads. Adjust brake cable tension.
- **Uneven Pad Wear:**
 - **Cause:** Improper pad alignment, bent caliper arm.
 - **Solution:** Re-align pads to ensure full and even contact with the rim. Inspect caliper for damage.

SPECIFICATIONS

Detailed specifications for the SHIMANO Ultegra 6800 Road Brake Shoe Set:

Feature	Detail
Brand	SHIMANO
Model Name	Road Brake Shoes (Ultegra 6800 Series)
Material	Aluminum (holder)
Color	Black
Intended Brake Type	Caliper
Pad Attachment Style	Bolt-In (Caliper)
Pad Type	Cartridge (R55C4)
Rim Compatibility	Standard
Product Dimensions	7"L x 5"W x 2"H (Packaging)
Item Dimensions LxWxH	5 x 3.75 x 1.25 inches (Product)
Package Weight	0.04 Kilograms
Number of Pieces	1 (Pair)
Model Year	2016
UPC/GTIN	689228129917

WARRANTY INFORMATION

The SHIMANO Ultegra 6800 Road Brake Shoe Set comes with a Limited Warranty. For specific terms, conditions, and duration of the warranty, please refer to the official SHIMANO warranty policy documentation provided with your purchase or available on the official SHIMANO website. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your SHIMANO Ultegra 6800 Road Brake Shoe Set, please utilize the following resources:

- **Official SHIMANO Website:** Visit the official SHIMANO website for product information, FAQs, and support contact details.
- **Authorized Dealers:** Contact an authorized SHIMANO dealer or service center for professional assistance.
- **Online Store:** You can also find information and support through the official SHIMANO store on Amazon: [Visit the SHIMANO Store on Amazon](#)