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› [EBC](#) /

› EBC Brakes USR403 USR Series Sport Slotted Rotor Instruction Manual

## EBC USR403

# EBC Brakes USR403 USR Series Sport Slotted Rotor Instruction Manual

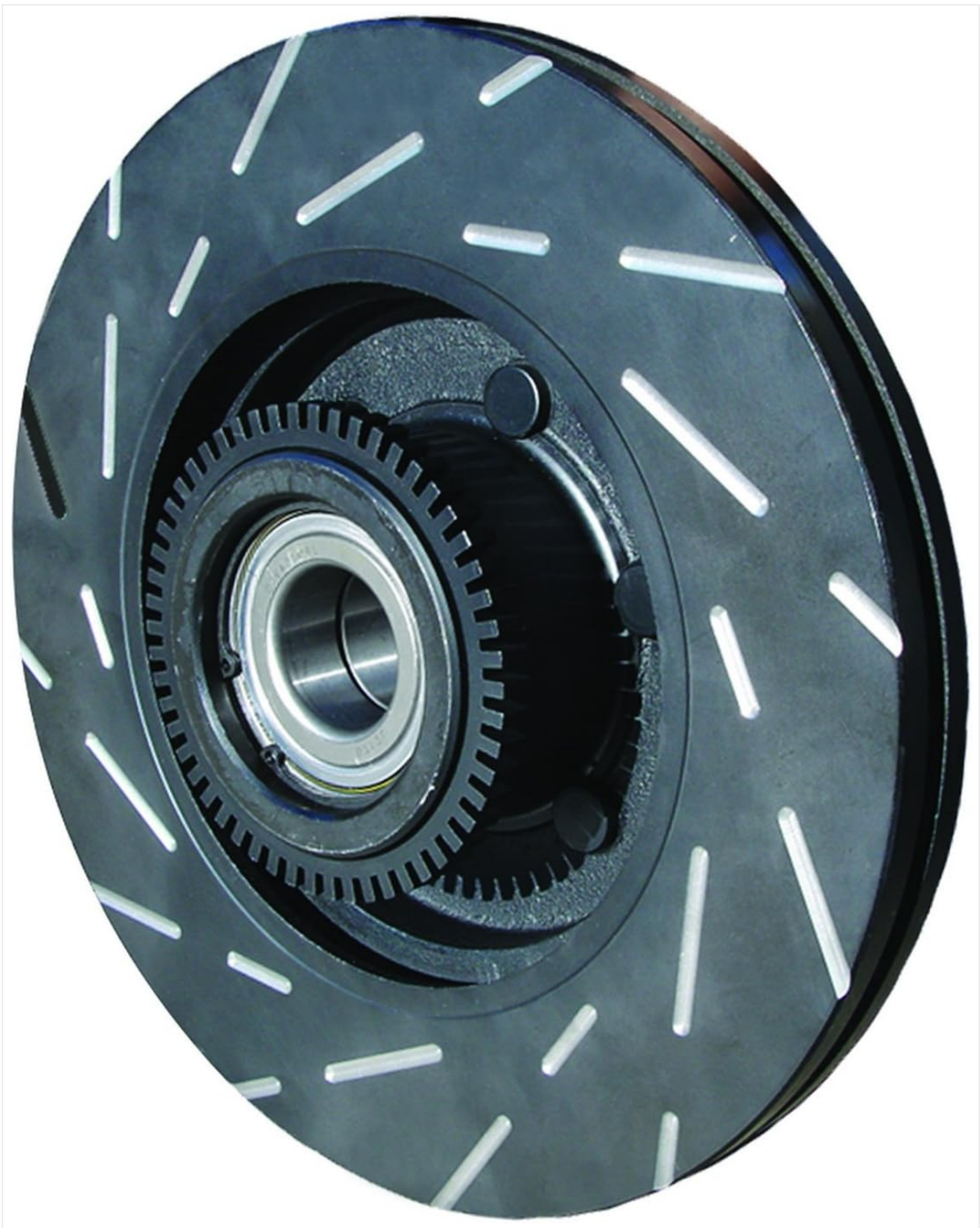
Model: **USR403** | Brand: **EBC**

UPC: 840655083429

## 1. INTRODUCTION

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This manual provides essential information for the proper handling, installation, and maintenance of your EBC Brakes USR403 USR Series Sport Slotted Rotors. These rotors are engineered to enhance braking performance through a specialized narrow profile slot pattern, which aids in cooling and de-gassing under load, while minimizing air noise. The zinc-coated finish contributes to corrosion resistance and appearance. Understanding the features and following these guidelines will ensure optimal performance and longevity of your brake system.



*Figure 1: EBC Brakes USR403 USR Series Sport Slotted Rotor. This image displays a single black zinc-coated brake rotor with multiple narrow, white-colored slots on its surface, designed for improved cooling and de-gassing. The central hub assembly, including a bearing, is visible.*

## **2. SAFETY INFORMATION**

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Brake system components are critical for vehicle safety. Improper installation or maintenance can lead to serious injury or vehicle damage. It is highly recommended that installation and any brake system work be performed by a qualified automotive technician.

- Always use appropriate safety gear, including eye protection and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

- Keep brake fluid away from painted surfaces as it can damage paint.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### 3. INSTALLATION GUIDELINES

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These rotors are designed as direct replacements for specific vehicle applications. Always verify fitment before installation. Rotors are sold in sets (one left, one right) and should be installed accordingly.

1. **Vehicle Preparation:** Lift the vehicle safely and remove the wheel.
2. **Remove Old Components:** Disassemble the brake caliper and remove the old brake rotor.
3. **Clean Hub Surface:** Thoroughly clean the vehicle's hub surface to ensure proper seating of the new rotor. Any rust or debris can cause runout and vibration.
4. **Inspect New Rotor:** Before installation, inspect the new EBC USR403 rotor for any shipping damage. Note that the black zinc coating will wear off the pad contact area during initial use, which is normal.
5. **Install New Rotor:** Place the new rotor onto the hub. Ensure it sits flush. If equipped, these rotors come complete with bearing cups where fitted as OEM.
6. **Reassemble Brakes:** Reinstall the brake caliper and pads. Ensure all bolts are torqued to the manufacturer's specifications.
7. **Brake System Bleeding:** If brake lines were opened, bleed the brake system according to the vehicle manufacturer's instructions.
8. **Break-in Procedure:** Follow the recommended break-in procedure for new brake rotors and pads. This typically involves a series of moderate stops from varying speeds to properly seat the pads to the rotors and cure the pad material. Refer to the brake pad manufacturer's instructions for specific break-in recommendations.

### 4. OPERATING PRINCIPLES

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The EBC USR Series Sport Slotted Rotors are designed with specific features to optimize braking performance:

- **Narrow Profile Slot Pattern:** These slots are engineered to facilitate the de-gassing of brake pad compounds and dissipate heat more effectively. This process helps maintain consistent brake performance, especially under heavy braking conditions, and reduces brake fade.
- **Reduced Air Noise:** The specific design of the narrow slots minimizes the air noise often associated with slotted rotors, contributing to a quieter braking experience.
- **Flat and Parallel Pad Wear:** The slotted design helps to continuously clean the brake pad surface, preventing the formation of "record grooves" or galling. This ensures that the brake pads maintain flat and parallel contact with the rotor surface, improving overall braking efficiency and extending pad life.
- **Zinc Finish:** The black zinc coating provides a protective layer against corrosion on non-contact areas of the rotor, enhancing durability and appearance.

### 5. MAINTENANCE

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Regular inspection and maintenance of your brake system are crucial for safety and performance. Adhere to your vehicle manufacturer's recommended service intervals.

- **Visual Inspection:** Periodically inspect the rotors for signs of wear, such as scoring, cracks, or excessive rust.

- **Minimum Thickness:** Rotors have a minimum thickness specification. If the rotor wears below this limit, it must be replaced. Consult your vehicle's service manual for this specification.
- **Pad Wear:** Ensure brake pads are wearing evenly and are replaced before they reach their wear limits. Uneven pad wear can indicate caliper issues or rotor runout.
- **Cleaning:** Keep the brake area clean from excessive dirt and debris.

## 6. TROUBLESHOOTING COMMON ISSUES

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If you experience any issues with your braking system after installing EBC USR403 rotors, consider the following common problems and potential solutions:

- **Brake Noise (Squealing/Grinding):**
  - Ensure proper break-in procedure was followed.
  - Check for proper caliper function and lubrication.
  - Verify brake pads are correctly installed and not worn out.
  - Inspect for foreign debris between the pad and rotor.
- **Vibration or Pulsation During Braking:**
  - Check for uneven rotor wear or warping (though less common with slotted rotors).
  - Ensure the hub surface was clean and free of debris during installation.
  - Verify wheel lug nuts are torqued correctly and evenly.
  - Inspect suspension components for wear.
- **Reduced Braking Performance:**
  - Confirm proper break-in of pads and rotors.
  - Check for air in the brake lines (if system was opened).
  - Inspect brake fluid level and condition.
  - Ensure brake pads are not contaminated with oil or grease.

If troubleshooting steps do not resolve the issue, consult a qualified automotive technician.

## 7. PRODUCT SPECIFICATIONS

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Specification	Detail
Brand	EBC
Model Number	USR403
Exterior Finish	Zinc
Vehicle Service Type	Cars
Item Weight	19 pounds
UPC	840655083429
OEM Part Number	BHWLUSR403
Date First Available	February 1, 2006

## 8. WARRANTY INFORMATION

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For detailed warranty information regarding your EBC Brakes USR403 USR Series Sport Slotted Rotors, please refer to the official EBC Brakes website or contact an authorized EBC Brakes dealer. Warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase.

## 9. CUSTOMER SUPPORT

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Should you require further assistance, technical support, or have questions not covered in this manual, please contact EBC Brakes customer service directly. You can typically find contact information, FAQs, and additional resources on the official EBC Brakes website.

*Note: Always provide your product model number (USR403) and any relevant purchase details when contacting support.*