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Power Stop AR8642XR

Power Stop AR8642XR Cross Drilled and Slotted Performance Brake Rotor - Right User Manual

Model: AR8642XR | Brand: Power Stop

Introduction

The Power Stop AR8642XR Cross Drilled and Slotted Performance Brake Rotor is engineered for superior braking performance and heat dissipation. This rotor series is designed to provide dependable and safe braking even under extreme conditions, offering a significant upgrade over standard original equipment (OE) rotors without requiring a full big brake kit. Its unique design helps reduce operating temperatures, which can lead to increased braking power and extended rotor and pad life. The combination of cross-drilled holes and slots ensures a cleaner braking surface, improving friction bite and contributing to cleaner wheels. Each rotor is finished with a silver, zinc dichromate coating to prevent corrosion and maintain its appearance.



Image: The Power Stop AR8642XR Cross Drilled and Slotted Performance Brake Rotor, showcasing its silver zinc dichromate finish and performance-enhancing design.

Setup and Installation

Installation of brake rotors requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician to ensure proper function and safety. Incorrect installation can lead to brake failure and serious injury.

General Installation Guidelines:

1. **Safety First:** Ensure the vehicle is securely lifted and supported on jack stands. Disconnect the battery if working near electrical components.
2. **Remove Old Components:** Carefully remove the wheel, brake caliper, and old brake rotor. Inspect all surrounding components for wear or damage.
3. **Clean Hub Surface:** Thoroughly clean the wheel hub mounting surface to remove any rust, dirt, or debris. A clean surface is crucial for proper rotor seating and to prevent runout.
4. **Install New Rotor:** Mount the new Power Stop AR8642XR rotor onto the hub. Ensure it sits flush against the mounting surface.
5. **Reassemble Brakes:** Reinstall the brake caliper and wheel. Ensure all bolts are torqued to the manufacturer's specifications.
6. **Brake Bleeding:** If brake lines were opened, bleed the brake system to remove any air.
7. **Bed-in Procedure:** Follow the manufacturer's recommended brake pad and rotor bed-in procedure to optimize performance and longevity. This typically involves a series of moderate stops from varying speeds.

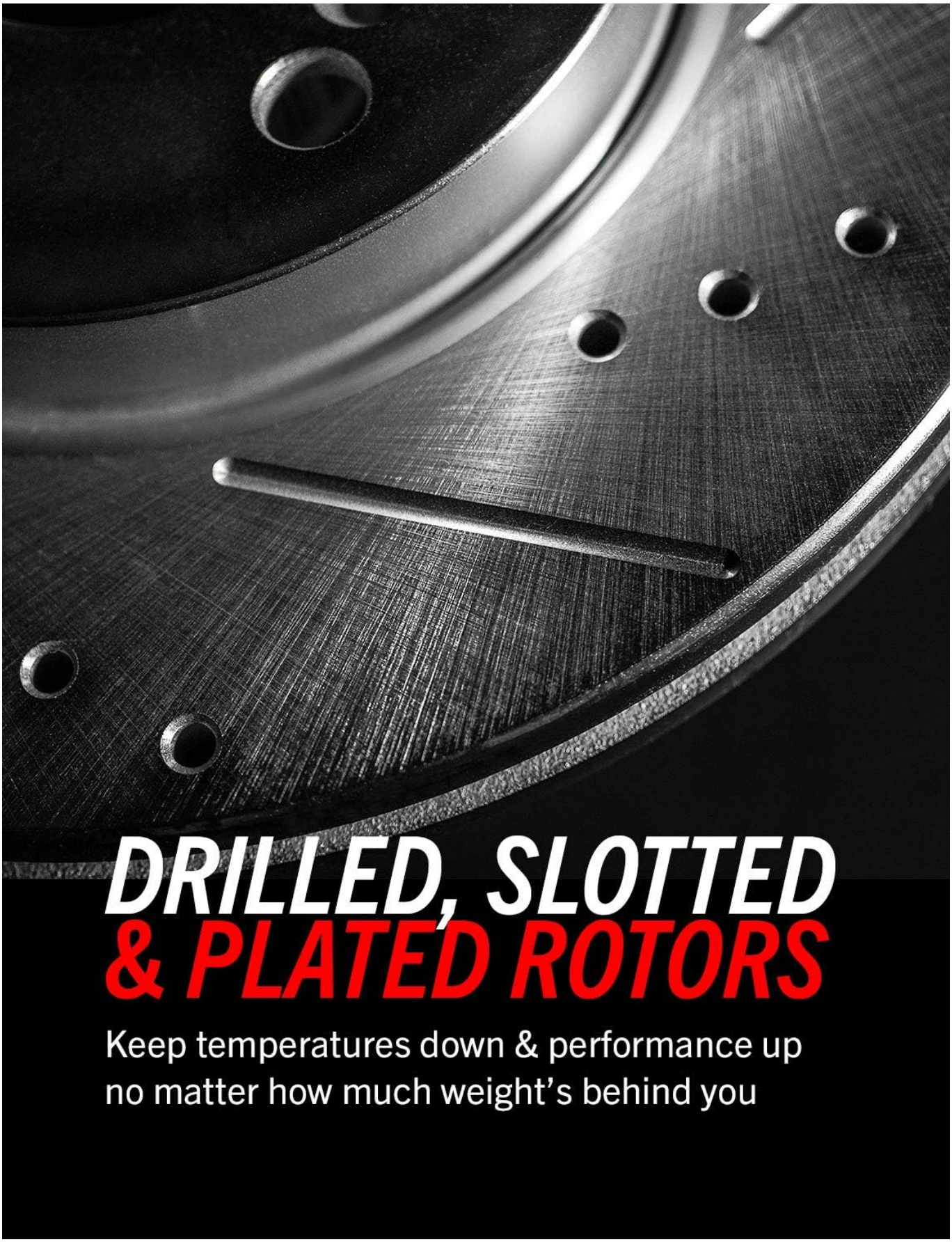


Image: A close-up view highlighting the precision-drilled holes, machined slots, and zinc plating of the Power Stop brake rotor, designed to keep temperatures down and performance up.

Operating and Performance

The Power Stop AR8642XR rotor is designed to enhance your vehicle's braking capabilities. Its cross-drilled and slotted design provides several key performance benefits:

- **Increased Cooling:** The cross-drilled holes facilitate increased airflow and heat dissipation, significantly reducing rotor temperatures compared to standard, slotted, or drilled-only rotors. This helps prevent brake fade during heavy braking.
- **Reduced Brake Fade and Rotor Warpage:** By maintaining lower operating temperatures, the rotor is less susceptible to brake fade and warpage, ensuring consistent braking performance.
- **Extended Lifespan:** The optimized thermal management can lead to a rotor lifespan up to five times longer than standard OE replacement rotors.
- **Enhanced Wet Weather Performance:** The slots help to wipe away water, gas, and brake dust from the pad surface, maintaining optimal friction and enhancing performance in wet conditions.
- **Corrosion Resistance:** The gold zinc dichromate finish not only provides a bold aesthetic but also offers excellent corrosion protection, keeping the rotor looking new over time.

Maintenance

Proper maintenance is essential for the longevity and optimal performance of your brake rotors. Regular inspection and adherence to a maintenance schedule will ensure safe and effective braking.

- **Regular Inspection:** Periodically inspect rotors for signs of wear, such as deep grooves, cracks, or excessive rust. Check for any discoloration that might indicate overheating.
- **Brake Pad Replacement:** Always replace brake pads when they reach their minimum thickness. Worn pads can damage rotors.
- **Cleanliness:** Keep the brake area clean from excessive dirt, dust, and road grime. While the rotor's design helps with cleanliness, a general cleaning during tire rotations is beneficial.
- **Fluid Checks:** Ensure brake fluid levels are correct and the fluid is clean. Contaminated or low brake fluid can affect braking performance.
- **Professional Servicing:** Have your brake system professionally inspected at least once a year or as recommended by your vehicle manufacturer.

Troubleshooting

If you experience issues with your braking system, consider the following common problems and potential causes. Always consult a qualified mechanic for diagnosis and repair.

Symptom	Possible Cause	Action
Vibration or Pulsation during Braking	Rotor runout, uneven pad wear, warped rotor (less likely with Power Stop rotors due to design).	Inspect rotors for runout, check pad wear, ensure proper installation. Professional inspection recommended.
Squealing or Grinding Noise	Worn brake pads, foreign object lodged in caliper, glazed rotors, improper bed-in.	Inspect pads for wear, check for debris, re-perform bed-in procedure if applicable.
Reduced Braking Performance (Fade)	Overheated brakes, worn pads, contaminated brake fluid, air in brake lines.	Allow brakes to cool, inspect pads, check brake fluid, bleed brake lines.
Pulling to One Side when Braking	Uneven brake pad wear, seized caliper, contaminated brake fluid, suspension issues.	Inspect calipers and pads on both sides, check brake lines.

Specifications

Attribute	Detail
Brand	Power Stop
Model Number	AR8642XR
Manufacturer Part Number	AR8642XR
Position	Front
Exterior Finish	Zinc (Silver Zinc Dichromate)
Item Weight	11.5 kg
Package Dimensions	33.27 x 32.77 x 17.02 cm
ASIN	B000CA3BTU
UPC	792088471949
Date First Available	1 December 2005

Warranty and Support

For specific warranty information regarding the Power Stop AR8642XR Cross Drilled and Slotted Performance Brake Rotor, please refer to the official Power Stop website or contact their customer support directly. Warranty terms and conditions, including coverage details and claim procedures, are provided by the manufacturer.
For technical support or inquiries, it is recommended to visit thePower Stop official website or consult with a certified automotive professional.

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