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› Power Stop K7510 Z23 Carbon Fiber Brake Pads with Drilled & Slotted Rotors Kit User Manual for Hyundai Sonata (2016-2018) & Kia Optima (2016-2018)

## Power Stop K7510

# Power Stop K7510 Z23 Carbon Fiber Brake Pads with Drilled & Slotted Rotors Kit User Manual

Model: K7510 | For Hyundai Sonata (2016-2018) & Kia Optima (2016-2018)

<b>Procedure</b>	<b>Introduction Operation</b>	<b>What's in the Box Maintenance</b>	<b>Key Features Troubleshooting</b>	<b>Installation Specifications</b>	<b>Break-in Warranty &amp; Support</b>
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## 1. INTRODUCTION

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This user manual provides essential information for the installation, operation, and maintenance of your Power Stop K7510 Z23 Carbon Fiber Brake Pads with Drilled & Slotted Rotors Kit. This kit is designed to enhance the braking performance of your Hyundai Sonata (2016-2018) or Kia Optima (2016-2018) by offering a low-dust, noise-free upgrade with superior stopping power. Please read these instructions carefully before installation and use to ensure optimal performance and safety.

## 2. WHAT'S IN THE BOX

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Your Power Stop K7510 kit includes the following components:

- 4 Drilled & Slotted brake rotors
- Ceramic Brake Pads
- Installation Hardware
- Brake Lube



Figure 1: Complete Power Stop K7510 Z23 Brake Kit, including drilled and slotted rotors, carbon-fiber ceramic brake pads, and hardware.

### 3. KEY FEATURES

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- **Enhanced Braking Performance:** Engineered to significantly improve stopping power compared to traditional brake systems.
- **Carbon-Fiber Ceramic Pads:** Advanced compound for severe-duty stopping power with everyday drivability.
- **Low Dust & Noise-Free:** Validated through third-party tests, showing on average 30% less dust than OE, and dual-layer high-temp rubberized shims for silent braking.
- **Drilled & Slotted Rotors:** Precision drill holes for maximum rotor cooling and rounded slots to wipe away gas and debris, ensuring a clear contact patch.
- **Silver Zinc Dichromate Plating:** Applied to all drilled & slotted rotors for rust and corrosion prevention, maintaining appearance.
- **G3000 Metallurgy:** Rotors cast using fine G3000 metallurgy with strict OE tolerances for a perfect, bolt-on upgrade.
- **Complete Kit:** Includes perfectly matched rotors, Z23 Evolution Sport Carbon-Fiber ceramic brake pads, upgraded hardware, and high-performance lubricant for a simple brake job.

# ***CARBON-FIBER CERAMIC PADS***

Severe-duty stopping power  
with everyday drivability



Figure 2: Detail of the Carbon-Fiber Ceramic Pads, designed for enhanced stopping power.



# **DRILLED, SLOTTED & PLATED ROTORS**

Keep temperatures down & performance up  
on your car, truck or SUV.

Figure 3: Detail of a Drilled & Slotted Rotor, showcasing features for cooling and debris removal.

## **4. INSTALLATION**

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Installation of the Power Stop K7510 brake kit should be performed by a qualified mechanic or an individual with extensive experience in automotive brake systems. Improper installation can lead to brake failure and serious injury. Always refer to your vehicle's service manual for specific torque specifications and procedures.

### **4.1 General Steps (Consult Vehicle-Specific Manual for Details):**

1. **Preparation:** Safely lift and support the vehicle. Remove the wheels.
2. **Remove Old Components:** Disconnect the brake caliper, remove the old brake pads and rotors.
3. **Clean Hub Assembly:** Thoroughly clean the hub assembly to ensure proper seating of the new rotor.
4. **Install New Rotors:** Place the new drilled and slotted rotors onto the hub. Ensure correct orientation (front passenger side, front driver side, etc., if labeled).
5. **Install New Pads & Hardware:** Install the new Z23 Carbon-Fiber ceramic brake pads with the included stainless steel hardware. Apply high-temperature ceramic brake lubricant to contact points as specified.
6. **Reassemble Caliper:** Reattach the brake caliper and ensure all bolts are torqued to manufacturer

specifications.

7. **Bleed Brakes:** If necessary, bleed the brake system according to your vehicle's service manual.
8. **Reinstall Wheels:** Reinstall the wheels and lower the vehicle.



Figure 4: Premium stainless steel hardware included for installation.



Figure 5: A mechanic installing a brake pad, highlighting the hands-on process.

## 5. BRAKE BREAK-IN PROCEDURE

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Proper break-in (also known as bedding-in) is critical for optimal brake performance and longevity. This procedure ensures an even layer of friction material is deposited onto the rotors, preventing issues like shudder or reduced braking effectiveness. Perform this procedure in a safe area with minimal traffic.

### 5.1 Break-in Steps:

1. **Initial Stops (40 mph to 10 mph):** After installation, perform five (5) moderate to aggressive stops from 40 mph down to 10 mph in rapid succession. Do not allow the brakes to cool between stops. Do not come to a complete stop.
2. **Avoid Complete Stops:** If forced to stop, shift into neutral and take your foot off the brake, or allow the vehicle to roll slightly. Holding the brake pedal down on hot rotors can create an imprint, leading to shudder.
3. **Second Set of Stops (35 mph to 5 mph):** Immediately after the first set, perform five (5) moderate stops from 35 mph down to 5 mph in rapid succession. Again, do not allow the brakes to cool between stops. You may notice a resin smell as the brakes heat up; this is normal.
4. **Cooling Stage:** After completing both sets of stops, drive around for as long as possible (approximately 5 minutes at moderate speed) without excessively heating the brakes and without coming to a complete stop. This allows the heated resin in the brake pads to cool and cure.
5. **Normal Operation:** Once the brakes have cooled to standard operating temperature, you may use them normally.

**Important:** Never cool your brakes with water, as this can damage them.

Your browser does not support the video tag.

Video 1: Detailed brake break-in procedure for Power Stop brake kits. This video demonstrates the correct steps to ensure optimal performance and longevity of your new brake system.

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Video 2: Overview of the Power Stop Z23 Brake Kit, including a demonstration of the break-in process and key features.

## 6. OPERATING INSTRUCTIONS

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After the break-in procedure is successfully completed, your Power Stop K7510 brake kit is ready for normal operation. You should experience improved stopping power, reduced dust, and quiet performance.

- **Initial Driving:** For the first few hundred miles, avoid sudden or aggressive braking if possible, allowing the pads and rotors to fully seat.
- **Brake Feel:** The brake pedal feel may be slightly different from your previous brakes, offering a firmer and more responsive feel.
- **Environmental Factors:** In wet conditions, braking performance may be slightly altered. Always maintain a safe following distance.

## 7. MAINTENANCE

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Regular maintenance is essential to ensure the continued performance and safety of your Power Stop K7510 brake system.

- **Regular Inspections:** Periodically inspect brake pads and rotors for wear, cracks, or damage. Consult a professional if you notice any irregularities.
- **Brake Fluid:** Check your brake fluid level and condition regularly. Replace fluid according to your vehicle manufacturer's recommendations.
- **Cleaning:** Keep your wheels and brake components clean to prevent buildup of dust and debris, which can affect performance and appearance.
- **Professional Service:** Have your brake system professionally inspected and serviced at recommended intervals.

## 8. TROUBLESHOOTING

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If you encounter any issues with your Power Stop K7510 brake kit, consider the following common problems and solutions:

- **Brake Noise (Squealing/Grinding):**
  - Ensure proper installation and application of brake lubricant.
  - Verify the break-in procedure was followed correctly.
  - Inspect for foreign objects or excessive wear.
- **Brake Shudder/Vibration:**
  - Often caused by uneven friction material transfer during break-in. Re-perform the break-in procedure if necessary.
  - Check for warped rotors (less likely with new rotors, but possible if overheated or improperly installed).
  - Ensure lug nuts are properly torqued.
- **Reduced Braking Performance:**
  - Confirm proper break-in.
  - Check for air in the brake lines (if bleeding was performed).
  - Inspect for fluid leaks or worn components.

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

## 9. SPECIFICATIONS

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Attribute	Detail
Brand	Power Stop
Model	K7510 (Z23 Carbon Fiber Brake Pads with Drilled & Slotted Brake Rotors Kit)
Vehicle Service Type	Car (Hyundai Sonata 2016-2018, Kia Optima 2016-2018)
Brake Pad Material	Carbon-Fiber Ceramic
Rotor Type	Drilled & Slotted
Rotor Coating	Silver Zinc Dichromate Plated
Shims	Dual-layer high-temp rubberized shims
Hardware	Stainless Steel Installation Hardware included
Lubricant	High temperature Ceramic brake lubricant included
Item Weight	69.8 pounds
Product Dimensions	14 x 14 x 14 inches
UPC	889906345053

## 10. WARRANTY & SUPPORT

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For detailed warranty information, product support, or to contact customer service, please visit the official Power Stop website or refer to the warranty card included with your product. Keep your purchase receipt for warranty claims.

You can also visit the **Power Stop Store on Amazon** for additional product information and support resources.