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Power Stop K2010

Power Stop K2010 Brake Kit Instruction Manual

Front and Rear Z23 Carbon Fiber Brake Pads with Drilled and Slotted Brake Rotors Kit

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Power Stop K2010 brake kit. Adhering to these guidelines will ensure optimal performance, safety, and longevity of your braking system.

Product Overview

The Power Stop K2010 kit includes high-performance front and rear Z23 Evolution Sport carbon-fiber ceramic brake pads paired with drilled and slotted zinc-plated brake rotors. This combination is engineered to provide enhanced stopping power, reduced dust, and quiet operation for daily driving conditions.



Image 1.1: Complete Power Stop K2010 Brake Kit components.

Key Features

- **Carbon-Fiber Ceramic Brake Pads:** Engineered for significantly enhanced braking performance and low dust output.
- **Drilled and Slotted Rotors:** Zinc-plated for maximum protection against rust, designed to improve cooling and reduce fade.
- **Complete Hardware Kit:** Includes stainless steel installation hardware and high-temperature ceramic brake lubricant for a straightforward installation.
- **Dual-Layer Rubberized Shims:** Insulate noise for virtually silent braking.

Vehicle Compatibility

This kit is compatible with various Chevrolet and GMC 6-lug truck and SUV models. Please verify your vehicle's specific year and model against the list below:

- **Chevrolet:** Astro (2003-2005), Avalanche 1500 (2002), Silverado 1500 (1999-2006), Silverado 1500 Classic (2007), Suburban 1500 (2000-2002), Tahoe (2000-2002)
- **GMC:** Safari (2003-2005), Sierra 1500 (1999-2006), Sierra 1500 Classic (2007), Yukon (2000-2002), Yukon XL 1500 (2000-2002)

Important Note: For certain 2001-2005 GMC Sierra 1500 and Chevrolet Silverado 1500 models, this kit is specifically designed for vehicles equipped with 1 Piston Rear Calipers. Verify your vehicle's caliper type before installation.

2. SETUP AND INSTALLATION

Professional installation by a certified automotive technician is recommended. Ensure the vehicle is safely supported on a level surface using jack stands before beginning any work.

Components Included



Image 2.1: Kit contents, including rotors, pads, and hardware.

Your Power Stop K2010 kit typically includes:

- Front and Rear Drilled & Slotted Rotors
- Front and Rear Carbon-Fiber Ceramic Brake Pads
- Stainless Steel Slide Clips
- High-Temperature Ceramic Brake Lubricant
- Caliper Slide Boots and Inner Bushings

Required Tools (Not Included)

- Standard automotive tools (wrenches, sockets, ratchets)
- Torx T55 bit (commonly required for front caliper removal)
- C-clamp or brake caliper compression tool
- Brake cleaner
- Torque wrench
- Safety glasses and gloves

Installation Steps (General Guidance)

1. **Prepare Vehicle:** Park on a level surface, engage parking brake, and block wheels. Loosen lug nuts, then raise the vehicle and secure it with jack stands. Remove wheels.
2. **Remove Old Components:** Remove caliper bolts, then the caliper. Support the caliper to avoid stressing the brake hose. Remove old brake pads and rotor. Note that some caliper pin boots may require a chisel and hammer for removal.
3. **Clean and Inspect:** Clean the hub surface thoroughly. Inspect brake lines, hoses, and other components for wear or damage.
4. **Install New Rotor:** Place the new Power Stop rotor onto the hub. Rotors are often labeled for specific wheel positions (e.g., "Front Driver Side").
5. **Install New Pads and Hardware:** Install new stainless steel slide clips and apply the provided high-temperature ceramic brake lubricant to all contact points between the pads, calipers, and hardware. **Caution: Do not allow lubricant to get on the braking surfaces of the pads or rotors.**
6. **Reassemble Caliper:** Compress the caliper piston(s) using a C-clamp or compression tool. Reinstall the caliper over the new pads and rotor, securing it with the appropriate bolts. Torque all bolts to manufacturer specifications.
7. **Repeat for all wheels:** Follow the same procedure for the remaining wheels.
8. **Final Steps:** Reinstall wheels and torque lug nuts to vehicle manufacturer specifications. Lower the vehicle. Pump the brake pedal several times to seat the pads against the rotors and restore pedal pressure before driving.

PREMIUM **HARDWARE**

High-quality stainless steel hardware kit included for an easy install.



Image 2.2: Installation of brake hardware and pads.

3. OPERATING (BRAKE SYSTEM BREAK-IN)

Proper break-in (also known as bedding-in) of your new brake pads and rotors is crucial for optimal performance, reduced noise, and extended lifespan. Failure to properly break in the brakes can lead to reduced stopping power, premature wear, and noise.

Break-in Procedure

1. Find a safe, open area where you can perform several stops without interruption.
2. Perform **5 consecutive hard stops** from approximately 40 mph (65 km/h) down to 0 mph (0 km/h). Apply firm, consistent pressure to the brake pedal. **Do not allow the brakes to cool between these stops.**
3. Immediately follow with **5 consecutive moderate stops** from approximately 25 mph (40 km/h) down to 0 mph (0 km/h). Allow for brief cooling periods (e.g., 30 seconds) between these stops.
4. After completing the procedure, drive normally for several miles without heavy braking to allow the brakes to cool.

down completely.

Post Break-in Expectations

- It is normal to experience a slight odor from the brake pads during the initial few drives after installation and break-in. This will dissipate.
- Avoid heavy braking, panic stops, or towing for the first 200 miles (320 km) after installation to allow the pads and rotors to fully seat.

4. MAINTENANCE

Regular inspection and basic maintenance will help ensure the continued performance and safety of your Power Stop K2010 brake system.

Routine Checks

- **Brake Pad Wear:** Periodically inspect brake pad thickness. Replace pads when they reach their minimum recommended thickness (typically 2-3mm).
- **Rotor Condition:** Check rotors for excessive wear, deep grooves, cracks, or warping. While zinc plating offers rust protection, keep rotors clean.
- **Brake Fluid Level:** Check the brake fluid reservoir level regularly and top up with the manufacturer-recommended fluid type if necessary.
- **Brake System Leaks:** Inspect brake lines, hoses, and calipers for any signs of fluid leaks.
- **Hardware:** Ensure all brake hardware is clean, properly lubricated, and free from corrosion.

Benefits of Power Stop Design

- **Low Dust:** The carbon-fiber ceramic compound significantly reduces brake dust, helping to keep your wheels cleaner for longer.
- **Rust Protection:** Zinc-plated rotors offer enhanced resistance against rust and corrosion, contributing to their lifespan and appearance.

DUST-FREE BRAKING

Keep your wheels looking good
with low-dust brake pads



Image 4.1: Low-dust braking helps maintain wheel cleanliness.

5. TROUBLESHOOTING

This section addresses common issues that may arise with your brake system. If you encounter problems not listed here or are unsure about a solution, consult a qualified mechanic.

Common Issues and Solutions

- **Soft or Spongy Brake Pedal:**

Possible Cause: Air in the brake lines, improper brake fluid level.

Solution: Bleed the brake system thoroughly to remove any trapped air. Check and top up brake fluid.

- **Squealing or Grinding Noise:**

Possible Cause: Improper installation, worn pads, foreign material, lack of lubrication on contact points.

Solution: Inspect installation for correct hardware placement and lubrication. Check pad thickness. If grinding, inspect for severe wear or debris. Ensure shims are properly seated.

- **Reduced Braking Performance:**
Possible Cause: Improper break-in, worn pads/rotors, brake fluid issues, caliper malfunction.
Solution: Verify break-in procedure was followed. Inspect pads and rotors for wear. Check brake fluid level and system for leaks. Consult a technician for caliper inspection.
- **Vibration or Pulsation During Braking:**
Possible Cause: Warped rotors, uneven pad wear, loose wheel bearings.
Solution: Inspect rotors for signs of warping. Check for uneven pad wear. Have wheel bearings inspected by a professional.
- **Incorrect Fitment:**
Possible Cause: Incorrect kit ordered for vehicle specifications.
Solution: Double-check your vehicle's specific requirements, especially regarding rear caliper type (e.g., single vs. dual piston). The K2010 kit is for 1 Piston Rear Calipers on specific models.

6. SPECIFICATIONS

Attribute	Detail
Brand	Power Stop
Model Number	K2010
Kit Type	Front and Rear Z23 Carbon Fiber Brake Pads with Drilled & Slotted Brake Rotors Kit
Brake Pad Material	Carbon-Fiber Ceramic
Rotor Finish	Zinc Plated
Approximate Item Weight	82.8 pounds
Approximate Product Dimensions	14 x 14 x 10 inches (packaging)
Special Features	Bolt-on upgrade, low dust, noise-free, rust protection, improved braking performance
UPC	792088527172

7. WARRANTY INFORMATION

Specific warranty details for the Power Stop K2010 brake kit are not provided within this manual based on the available product data. For the most current and comprehensive warranty terms and conditions, please refer to the official Power Stop website or contact their customer service directly.

8. SUPPORT

For technical assistance, product inquiries, or further support regarding your Power Stop K2010 brake kit, please utilize the following resources:

- **Official Power Stop Website:** Visit the manufacturer's website for FAQs, product information, and contact options.
- **Certified Automotive Technician:** For installation assistance or complex troubleshooting, it is always recommended to consult a certified automotive technician.

Note: Video content was not available in the provided product data for embedding in this manual.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question