

Bosch BP149

BOSCH BP149 QuietCast Premium Semi-Metallic Disc Brake Pad Set Instruction Manual

This manual provides essential information for the installation, operation, and maintenance of your Bosch QuietCast Premium Semi-Metallic Disc Brake Pad Set.

PRODUCT OVERVIEW

The Bosch QuietCast Premium Semi-Metallic Disc Brake Pad Set (Model BP149) is engineered for optimal braking performance across a wide range of vehicles. These brake pads are designed to deliver OE quality performance, durability, and quiet operation with low dust. They feature advanced friction materials and innovative technologies to ensure reliable stopping power.

Key Features:

- **OE Braking Excellence:** Draws on over 77 years of Bosch's original equipment braking expertise.
- **Quieter Stops:** Equipped with pre-attached OE style multilayer rubber core shims for reduced noise, increased strength, and corrosion resistance.
- **Exceptional Friction Material:** Rigorously formulated Semi-Metallic friction material for robust performance, stopping power, and low dust.
- **Bosch Durability:** Powder-coated backing plate prevents rust and corrosion, extending product life. Features OE style slots and chamfers for premium quality, fit, and function.
- **Ready to Install:** Each set includes pads for one axle (two wheels), a hardware kit (where applicable), and synthetic lubricant for reduced resistance on sliding contact points.



Image: Components of the Bosch QuietCast Premium Semi-Metallic Disc Brake Pad Set, showing four brake pads, two metal clips, and a packet of synthetic lubricant.

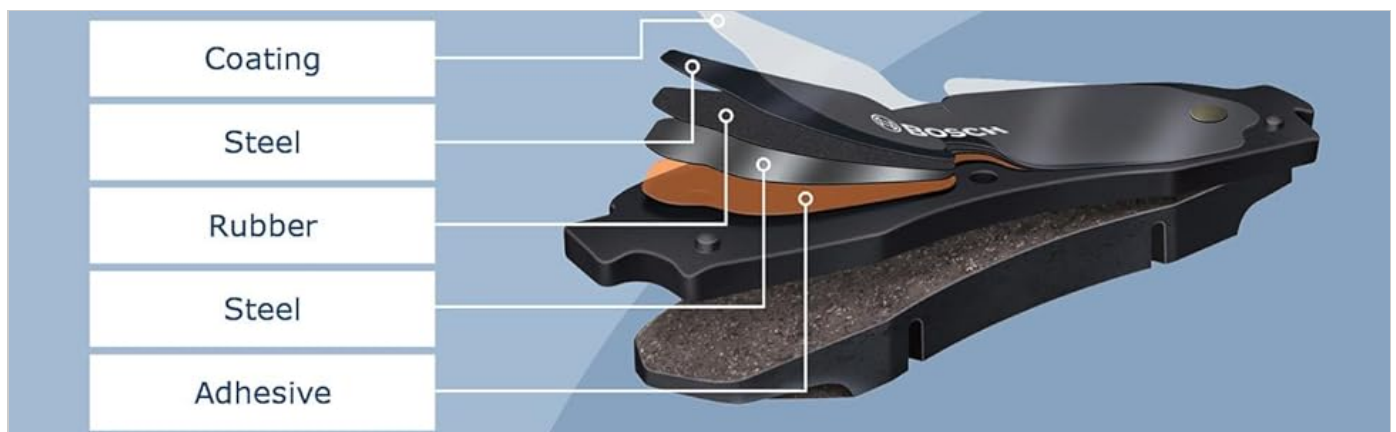


Image: Cross-section diagram of a Bosch QuietCast brake pad, detailing its layered construction with coating, steel, rubber, steel, and adhesive, which contributes to its quiet operation and durability through Molded Shim Technology.

Safety Information

Always prioritize safety when working on vehicle braking systems. Improper installation or maintenance can lead to serious injury or vehicle damage. If you are not confident in your ability to perform this installation, seek assistance from a qualified automotive technician.

- Wear appropriate personal protective equipment (PPE), including safety glasses 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.
- Dispose of old brake components and fluids responsibly according to local regulations.

INSTALLATION GUIDE

This section provides a general guide for installing the Bosch QuietCast Premium Semi-Metallic Disc Brake Pad Set. Specific steps may vary depending on your vehicle make and model. Always consult your vehicle's service manual for detailed instructions.

Required Tools and Materials:

- Jack and jack stands
- Lug wrench
- Socket set and ratchet
- C-clamp or brake caliper piston compression tool
- Wire brush
- Brake cleaner
- Torque wrench
- New Bosch QuietCast Brake Pads (BP149)
- Synthetic lubricant (included with pads)
- Hardware kit (where applicable, included with pads)

Step-by-Step Installation:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and loosen the lug nuts on the wheels where brake pads will be replaced. Jack up the vehicle and secure it with jack stands. Remove the wheels.
2. **Remove Old Brake Pads:** Locate the brake caliper. Depending on your vehicle, you may need to remove caliper guide pins or bolts to swing the caliper open or remove it entirely. Carefully remove the old brake pads. Note their orientation.
3. **Inspect Components:** Inspect the brake rotors for excessive wear, scoring, or warping. If necessary, replace the rotors with new Bosch QuietCast Premium Disc Brake Rotors for optimal performance. Check caliper slides and boots for damage.
4. **Clean and Lubricate:** Clean the caliper bracket and hardware mounting points with a wire brush and brake cleaner. Apply the provided synthetic lubricant to the caliper slide pins and any metal-to-metal contact points on the new hardware (if included).
5. **Compress Caliper Piston:** Use a C-clamp or a brake caliper piston compression tool to slowly push the caliper piston(s) back into the caliper bore. This creates space for the thicker new brake pads.
6. **Install New Brake Pads:** Install the new Bosch QuietCast brake pads into the caliper bracket, ensuring they are correctly seated. If a new hardware kit is included, install the new clips and shims.
7. **Reassemble Caliper:** Reinstall the brake caliper over the new pads and rotor. Secure the caliper guide pins or bolts and tighten them to the manufacturer's specified torque.
8. **Final Steps:** Reinstall the wheels and tighten the lug nuts hand-tight. Lower the vehicle and torque the lug nuts to the manufacturer's specifications. Repeat the process for the other wheels.

Your browser does not support the video tag.

Video: An overview of Bosch QuietCast Premium Disc Brake Pads and Rotors, highlighting key features and benefits. This video provides general product information and does not replace specific vehicle installation instructions.

OPERATING INSTRUCTIONS

Brake Pad Break-In Procedure (Bedding-In):

After installing new brake pads, it is crucial to follow a proper break-in procedure to ensure optimal performance and

longevity. This process, known as "bedding-in," transfers a thin layer of friction material from the pads to the rotor surface, creating a more consistent braking surface.

1. Find a safe, open area with minimal traffic.
2. Accelerate to approximately 35 mph (56 km/h) and apply moderate braking pressure to slow down to about 5 mph (8 km/h). Do not come to a complete stop.
3. Repeat this moderate braking procedure 4-5 times, allowing a short period between each stop for the brakes to cool slightly.
4. Next, accelerate to approximately 50 mph (80 km/h) and apply firm braking pressure (but not hard enough to activate ABS) to slow down to about 5 mph (8 km/h). Do not come to a complete stop.
5. Repeat this firm braking procedure 2-3 times, allowing a short period between each stop for the brakes to cool slightly.
6. After the bedding-in process, drive normally for at least 200 miles (320 km), avoiding sudden or aggressive braking.

During the break-in period, you may notice a slight burning smell or reduced braking effectiveness. This is normal. Avoid heavy braking or prolonged stops immediately after installation.

MAINTENANCE

Regular inspection and maintenance of your braking system are essential for safety and performance.

- **Routine Inspection:** Inspect brake pads, rotors, and calipers at least once a year or every 12,000 miles (20,000 km), whichever comes first. Look for signs of wear, cracks, or damage.
- **Brake Pad Wear:** Replace brake pads when the friction material wears down to the minimum thickness specified by your vehicle manufacturer, typically around 2-3mm. Bosch QuietCast pads are designed for long life, but wear rates can vary based on driving conditions.
- **Brake Fluid:** Check brake fluid level and condition regularly. Consult your vehicle manual for recommended brake fluid replacement intervals.
- **Rotor Condition:** Ensure rotors are free from deep grooves, excessive rust, or warping. Replace rotors if they are below minimum thickness or show significant damage.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
Squealing/Grinding Noise	New pads not properly bedded-in, worn pads (wear indicator), foreign object, caliper issues.	Perform break-in procedure. Inspect pads for wear and replace if necessary. Check for debris. Inspect calipers for proper function.
Vibration/Pulsation during Braking	Warped rotors, uneven pad wear, loose wheel bearings.	Inspect and replace rotors if warped. Check for proper pad installation. Inspect wheel bearings.
Soft Brake Pedal	Air in the brake lines, low brake fluid, faulty master cylinder.	Bleed the brake system. Check and top up brake fluid. Inspect master cylinder.
Vehicle Pulls to One Side	Uneven brake pad wear, seized caliper, contaminated brake fluid.	Inspect pads and calipers. Flush and replace brake fluid.

If you experience any persistent braking issues, it is recommended to have your vehicle inspected by a professional mechanic immediately.

SPECIFICATIONS

Attribute	Detail
Brand	Bosch
Model Number	BP149
Material	Semi-Metallic
Auto Part Position	Front, Rear (Note: Verify specific fitment for your vehicle)
Vehicle Service Type	Automotive
Specification Met	OEM
Item Weight	3.9 pounds
Product Dimensions	8.25 x 5.25 x 3.25 inches
UPC	031808169217, 077212101467


WARRANTY AND SUPPORT




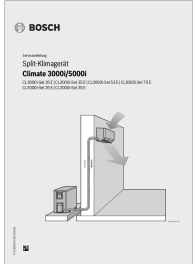
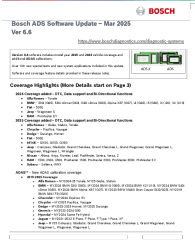
Bosch products are manufactured to high-quality standards. For specific warranty information regarding your Bosch QuietCast Premium Semi-Metallic Disc Brake Pad Set, please refer to the documentation included with your product or visit the official Bosch Automotive website. For technical support or inquiries, please contact Bosch customer service.
Bosch Automotive Website: www.boschautoparts.com



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Related Documents - BP149

	<p>Bosch CDR Software 25.1 Vehicle Coverage List</p> <p>Bosch CDR Software 25.1 provides a comprehensive vehicle coverage list, detailing supported makes, models, and modules for crash data retrieval. Essential for accident reconstruction professionals.</p>
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	<p>Bosch GMC 600-15: Professionelle Strommesszange</p> <p>Entdecken Sie die Bosch GMC 600-15, eine professionelle Strommesszange. Dieses Handbuch bietet detaillierte Informationen zur sicheren und effektiven Nutzung dieses vielseitigen Messgeräts.</p>
	<p>Bosch GMC 600-15 Professional Strommesszange Bedienungsanleitung</p> <p>Die offizielle Bedienungsanleitung für die professionelle Bosch GMC 600-15 Strommesszange. Finden Sie detaillierte Informationen zu Sicherheit, Bedienung, technischen Daten, Wartung und Fehlerbehebung für Ihr Bosch Messgerät.</p>
	<p>Bosch TPA 300 Quick Start Guide: Automotive TPMS Diagnostic Tool</p> <p>Get started quickly with the Bosch TPA 300, a professional diagnostic tool for automotive tire pressure monitoring systems (TPMS). Learn about its features, included accessories, and basic operation.</p>
	<p>Serviceanleitung Split-Klimagerät Climate 3000i/5000i</p> <p>Diese Serviceanleitung bietet detaillierte Informationen für Techniker zur Installation, Wartung, Fehlerbehebung und Demontage der Bosch Split-Klimageräte der Serien Climate 3000i und 5000i. Sie enthält Sicherheitshinweise, Produktinformationen, Schaltpläne und Anleitungen zur Fehlerdiagnose.</p>
	<p>Bosch ADS Software Update Ver 6.6 - March 2025 - Enhanced Vehicle Coverage and Features</p> <p>Detailed release notes for Bosch ADS Software Update Ver 6.6, released March 2025. Includes new vehicle coverage for 2024-2025 models, over 10,000 special tests, ADAS calibrations, and expanded diagnostic functions for numerous automotive brands.</p>