

Bosch BC1650

BOSCH BC1650 QuietCast Premium Ceramic Disc Brake Pad Set

MODEL: BC1650

Brand: Bosch

1. INTRODUCTION

This manual provides essential information for the installation, maintenance, and general understanding of your BOSCH BC1650 QuietCast Premium Ceramic Disc Brake Pad Set. These front brake pads are designed for select Nissan Altima (2013-2023) and Nissan Leaf (2011-2017) vehicles. The Bosch QuietCast line offers OE quality performance, durability, and innovative features for a superior braking experience.

Important: Always verify specific vehicle fitment details using the provided fit checker or consult a qualified automotive technician.

2. PRODUCT FEATURES

The Bosch QuietCast Premium Ceramic Disc Brake Pad Set incorporates advanced technology to deliver reliable and quiet braking performance.

2.1. QuietCast Technology

The QuietCast line utilizes Molded Shim Technology (MST) with pre-attached OE style multilayer rubber core shims. This design ensures a high-quality bond between rubber and steel, contributing to reduced noise, increased strength, and enhanced corrosion resistance.



Figure 1: Illustration of Bosch QuietCast Molded Shim Technology, highlighting the rubber core shim for noise reduction and durability.

2.2. Ceramic Friction Material

The proprietary ceramic friction material is rigorously formulated and tested to provide robust performance, exceptional stopping power, and quiet operation with low dust accumulation.



Figure 2: Overview of the Bosch QuietCast Premium Ceramic Disc Brake Pad Set, including four pads, hardware, and lubricant.

2.3. Durability and Fitment

Powder-coated backing plates prevent rust and corrosion, extending the product life. OE style slots and chamfers ensure premium quality, fit, and function, matching original equipment specifications.



Figure 3: Icons highlighting OE Fit and Longer Life features of the brake pads.

Video 1: "Bosch Braking: What's Stopping You?" - An overview of Bosch braking components and their benefits.

3. WHAT'S IN THE BOX

Each BOSCH BC1650 QuietCast Premium Ceramic Disc Brake Pad Set includes the following components:

- Four (4) Ceramic Disc Brake Pads (for 1 axle / 2 wheels)
- One (1) Hardware Kit (where applicable)
- One (1) Synthetic Lubricant packet

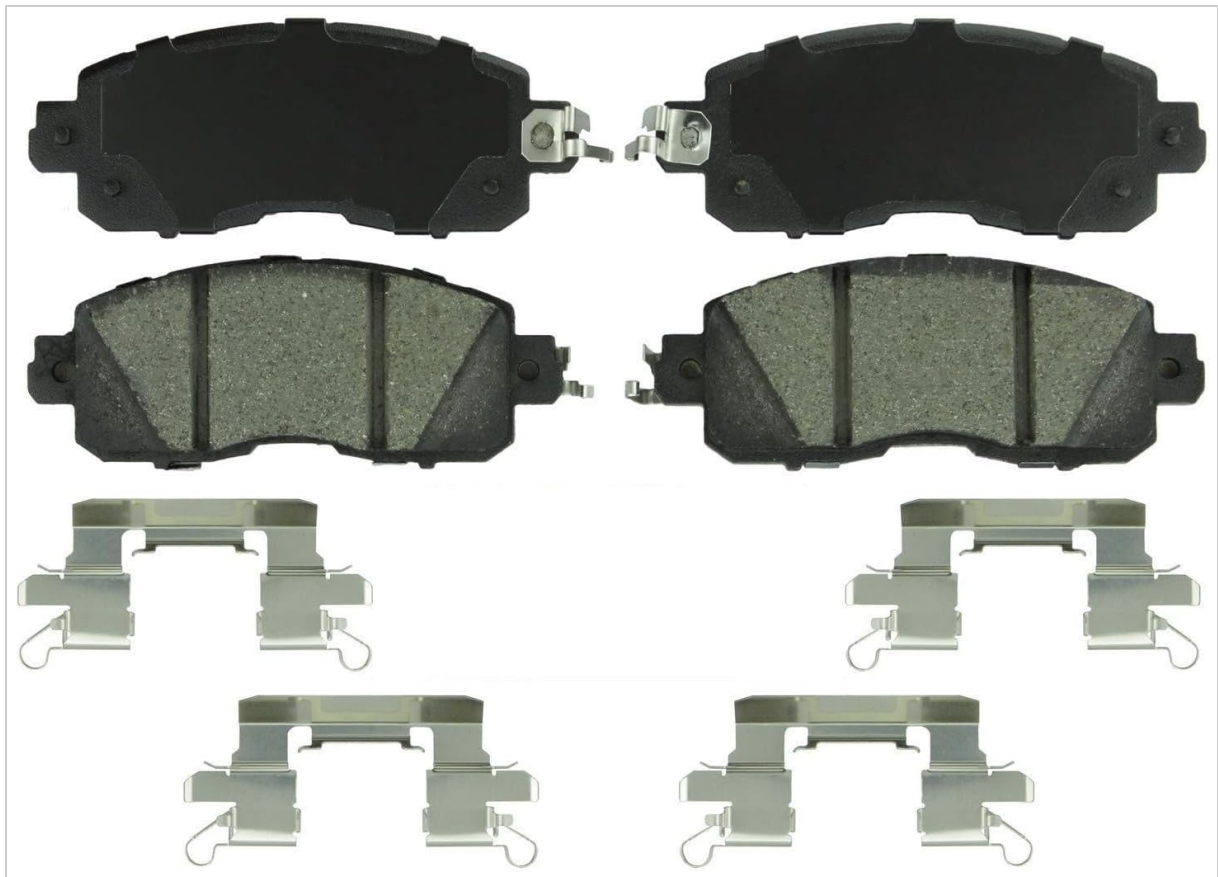


Figure 4: Detailed view of the brake pads, hardware, and lubricant included in the kit.

4. INSTALLATION INSTRUCTIONS

Disclaimer: Brake system work requires specialized knowledge and tools. Improper installation can lead to brake failure, serious injury, or death. It is highly recommended that installation be performed by a certified automotive technician.

4.1. Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface.
- Never rely solely on a jack for vehicle support.
- Consult your vehicle's service manual for specific torque specifications and procedures.

4.2. General Installation Steps (Front Axle)

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the front wheel lug nuts, then raise the front of the vehicle and secure it with jack stands. Remove the front wheels.
2. **Remove Old Brake Pads:** Locate the brake caliper. Remove the caliper guide pin bolts and carefully slide the caliper off the rotor. Support the caliper to avoid stressing the brake hose. Remove the old brake pads from the caliper bracket.
3. **Inspect and Clean:** Inspect the brake rotor for wear, scoring, or warping. If necessary, replace the rotors. Clean the caliper bracket and hardware mounting points thoroughly with a wire brush and brake cleaner.
4. **Install New Hardware:** Install the new hardware clips (where provided) onto the caliper bracket. Apply a thin layer of the included synthetic lubricant to the contact points where the brake pads will slide.
5. **Install New Brake Pads:** Insert the new Bosch QuietCast brake pads into the caliper bracket, ensuring they fit securely and slide freely.
6. **Reassemble Caliper:** Carefully slide the caliper back over the new pads and rotor. Reinstall the caliper guide pin bolts and tighten them to the manufacturer's specified torque.
7. **Bleed Brakes (if necessary):** If the brake system was opened or air entered the lines, bleed the brakes according to your vehicle's service manual.

8. **Reinstall Wheels:** Reinstall the wheels and hand-tighten the lug nuts. Lower the vehicle to the ground and tighten the lug nuts to the manufacturer's specified torque in a star pattern.
9. **Break-in Procedure:** Follow the recommended break-in procedure for new brake pads to ensure optimal performance and longevity. This typically involves a series of moderate stops from varying speeds without coming to a complete stop, allowing the pads to properly seat with the rotors. Consult the packaging or Bosch website for specific break-in recommendations.



Video 2: "Bosch Brakes for your vehicle - order online" - This video provides a general overview of Bosch brake components and their availability, reinforcing the brand's commitment to quality.

5. MAINTENANCE

Regular inspection and maintenance of your brake system are crucial for safety and performance.

- **Routine Inspection:** Inspect brake pads, rotors, and fluid levels at least twice a year or every 10,000 miles, whichever comes first.
- **Brake Fluid:** Check brake fluid levels and condition. Replace brake fluid according to your vehicle manufacturer's recommendations.
- **Pad Wear:** Replace brake pads when the friction material wears down to the minimum thickness specified by the manufacturer (typically 2-3mm).
- **Rotor Condition:** Ensure rotors are free from deep grooves, cracks, or excessive runout. Replace rotors if they are below minimum thickness or severely damaged.

6. TROUBLESHOOTING

If you experience any of the following issues, consult a qualified technician immediately:

- **Squealing or Grinding Noise:** This often indicates worn brake pads or issues with the caliper hardware.
- **Vibration During Braking:** May suggest warped rotors or uneven pad wear.
- **Soft or Spongy Brake Pedal:** Could be a sign of air in the brake lines or a brake fluid leak.
- **Vehicle Pulling to One Side:** Can indicate uneven brake wear, a seized caliper, or hydraulic issues.
- **Excessive Brake Dust:** While QuietCast pads are designed for low dust, excessive dust could indicate an underlying issue or improper break-in.

7. SPECIFICATIONS


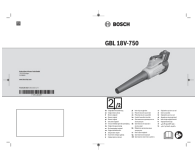
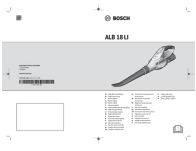
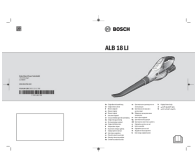


Feature	Detail
Brand	Bosch
Model Number	BC1650
Material	Ceramic
Auto Part Position	Front
Vehicle Service Type	Automotive
Item Weight	1 pounds
Product Dimensions	8.25 x 5.25 x 3.25 inches
Automotive Fit Type	Vehicle Specific Fit
Compatible Vehicles	Nissan Altima (2013-2023), Nissan Leaf (2011-2017)

8. WARRANTY AND SUPPORT

Bosch Automotive products are manufactured to high-quality standards. For specific warranty information, 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 Store: [Visit Store](#)

Related Documents - BC1650

	<p>Bosch ALS 25 Leaf Blower/Garden Vacuum User Manual</p> <p>Comprehensive user manual for the Bosch ALS 25 leaf blower and garden vacuum. Provides instructions for safe operation, assembly, maintenance, and troubleshooting.</p>
	<p>Bosch GBL 18V-750 Cordless Leaf Blower: Declaration of Conformity and Specifications</p> <p>Official declaration of conformity and technical specifications for the Bosch GBL 18V-750 cordless leaf blower, including compliance with EU and UK directives and standards.</p>
	<p>Bosch ALB 18 LI Cordless Leaf Blower User Manual and Safety Instructions</p> <p>Comprehensive user manual and safety guide for the Bosch ALB 18 LI cordless leaf blower. Learn about safe operation, maintenance, battery care, and troubleshooting for your Bosch garden tool.</p>
	<p>Bosch ALB 18 LI Cordless Leaf Blower Operating Manual</p> <p>Official operating manual for the Bosch ALB 18 LI cordless leaf blower. Contains safety instructions, technical specifications, usage guidelines, maintenance, and troubleshooting information.</p>
	<p>Bosch GBL 18V-120 Professional Cordless Blower: User Manual & Safety Instructions</p> <p>Comprehensive user manual and safety instructions for the Bosch GBL 18V-120 Professional cordless blower. Learn about product features, technical data, and safe operation.</p>
	<p>Bosch ALB 18 LI Akku-Laubbläser Bedienungsanleitung</p> <p>Entdecken Sie die Bosch ALB 18 LI Akku-Laubbläser Bedienungsanleitung. Dieses Dokument bietet umfassende Informationen zur sicheren und effizienten Nutzung Ihres Bosch Laubblägers für Gartenarbeiten. Erfahren Sie mehr über die wichtigsten Sicherheitsvorkehrungen, die korrekte Bedienung des Geräts, Wartungshinweise und technische Daten.</p>