Bosch BE1650

BOSCH BE1650 Blue Ceramic Disc Brake Pad Set Instruction Manual

Model: BE1650

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your BOSCH BE1650 Blue Ceramic Disc Brake Pad Set. Designed for the everyday driver, these brake pads benefit from robust testing and engineering processes to ensure optimal performance and safety. Please read this manual thoroughly before proceeding with installation or use.

2. Product Features

- **Advanced Ceramic Friction Material:** Platform-specific formulation for optimal braking performance.
- **Superior Noise Dampening:** Achieved through OE-style multi-layer shims.
- **Rust Inhibitive Coating:** Prevents the formation of rust and corrosion, which can lead to pad degradation and noise.
- **OE Design Slots and Chamfers:** Ensures superior braking performance and quiet stops.
- **Precision Manufacturing:** Strict tolerances for guaranteed fit and hassle-free installation.
- **Synthetic Lubricant Included:** For reduced resistance on sliding contact points.

3. Compatibility

This brake pad set is designed for the **FRONT axle (2 wheels)** of select vehicles. Please verify specific fitment details with your vehicle's service manual or a professional mechanic.

- **NISSAN:** 2013-2015 Altima, 2011-2015 Leaf

4. What's in the Box

- Brake Pads (for 1 axle / 2 wheels)
- Synthetic Lubricant

- Protective Blue Shop Towel (pads are wrapped within)

Note: Hardware is not included with this set.



Image: Contents of the BOSCH BE1650 brake pad set, including pads, lubricant, and protective towel.

5. Safety Information

Brake system components are critical for vehicle safety. Improper installation or maintenance can lead to serious injury or death. Always observe the following safety precautions:

- **Professional Installation Recommended:** If you are not experienced with automotive brake system repair, it is highly recommended to have these brake pads installed by a certified professional mechanic.
- **Consult Vehicle Service Manual:** Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- **Wear Personal Protective Equipment (PPE):** Use safety glasses, gloves, and other appropriate PPE during installation.
- **Secure Vehicle:** Ensure the vehicle is properly supported on jack stands and the parking brake is engaged before beginning work.
- **Cleanliness:** Keep brake components free from grease, oil, and dirt.

6. Installation Guidelines

The following are general steps. Always refer to your vehicle's specific service manual for detailed instructions.

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and loosen the lug nuts on the wheels to be serviced. Raise the vehicle and secure it with jack stands. Remove the wheels.
2. **Remove Old Pads:** Remove the caliper bolts and carefully slide the caliper off the rotor. Remove the old brake pads.
3. **Inspect Components:** Inspect the brake rotors for wear, cracks, or scoring. Replace if necessary. Check caliper slides and boots for damage.
4. **Clean and Lubricate:** Clean the caliper bracket and hardware. Apply the provided synthetic lubricant to caliper slide pins and any metal-to-metal contact points, ensuring it does not get on the friction material or rotor surface.
5. **Install New Pads:** Install the new BOSCH BE1650 brake pads into the caliper bracket. Ensure shims are correctly positioned.
6. **Reassemble:** Reinstall the caliper, ensuring all bolts are torqued to the manufacturer's specifications. Reinstall the wheels and lower the vehicle.
7. **Pump Brakes:** Before driving, slowly pump the brake pedal several times until a firm pedal is achieved. This will seat the pads against the rotor.



Image: Front and back view of the BOSCH BE1650 Blue Ceramic Disc Brake Pads.

7. Operating Instructions (Brake Pad Break-in Procedure)

Proper break-in (bedding-in) of new brake pads is crucial for optimal performance, longevity, and to prevent noise. Follow these steps:

1. Drive at a moderate speed (e.g., 30-40 mph).
2. Apply the brakes moderately (not hard) to slow down to about 10 mph. Do not come to a complete stop.
3. Repeat this process 5-6 times, allowing a short period between each stop for the brakes to cool slightly.
4. After the initial series of stops, drive for several minutes without braking to allow the pads and rotors to cool completely.
5. Avoid hard braking or prolonged braking (e.g., down a long hill) for the first 200 miles after installation.

8. Maintenance

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

- **Routine Inspection:** Have your brake system inspected by a professional at least once a year or every 12,000 miles, whichever comes first.
- **Check Pad Wear:** Monitor brake pad thickness. Replace pads when they reach their minimum recommended thickness.
- **Brake Fluid:** Check brake fluid level and condition regularly. Replace brake fluid according to your vehicle manufacturer's recommendations.
- **Rotor Condition:** Inspect rotors for excessive wear, warping, or deep grooves. Replace or resurface as needed.

9. Troubleshooting

Common issues and potential solutions:

- **Brake Noise (Squealing/Grinding):**
  - Ensure proper break-in procedure was followed.
  - Check for proper lubrication of caliper components.
  - Inspect for uneven rotor wear or foreign debris.
  - Verify correct installation of shims.
- **Uneven Pad Wear:**
  - Indicates issues with caliper function (e.g., seized caliper pins, sticky piston).
  - Inspect caliper and guide pins for proper movement and lubrication.
  - Check for warped rotors.
- **Vibration During Braking:**
  - Often caused by warped brake rotors.
  - Inspect rotors for runout and replace if necessary.

If troubleshooting steps do not resolve the issue, consult a professional mechanic.

10. Specifications

Attribute	Detail
Brand	Bosch
Model Number	BE1650

Material	Ceramic
Auto Part Position	Front
Vehicle Service Type	Automotive
Specification Met	OEM
Item Weight	3.48 pounds
Product Dimensions	8.46 x 4.02 x 3.5 inches
UPC	077212163984

11. Bosch Brake Pad Manufacturing and Testing

Video: An overview of Bosch's engineering, manufacturing, and quality testing processes for brake pads, highlighting their commitment to innovation and environmental responsibility.

Video: This video showcases the benefits of Bosch brakes for vehicles, emphasizing ease of ordering and the quality of the product from the perspective of automotive technicians.

12. Warranty and Support

BOSCH brake pads are manufactured to high-quality standards. For warranty information or technical support, please refer to the official Bosch Automotive website or contact their customer service. Keep your purchase receipt as proof of purchase.

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