Bendix PRT1813

Bendix Premium PRT1813 Rear Brake Rotor User Manual

Model: PRT1813

Introduction

This manual provides essential information for the proper handling, installation, and maintenance of your Bendix Premium PRT1813 Rear Brake Rotor. Designed for select Mercedes-Benz models, this rotor is engineered to deliver reliable stopping power and durability. Please read this manual thoroughly before proceeding with installation or use.

Image: The Bendix Premium PRT1813 Rear Brake Rotor, showcasing its machined surface and bolt pattern.

Safety Information

Automotive brake system components are critical for vehicle safety. Improper installation or maintenance can lead to serious injury or death. Always follow vehicle manufacturer's service procedures and use appropriate safety equipment. If you are not experienced with automotive brake system repair, it is highly recommended to seek professional assistance.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath.
- Do not work on hot brake components. Allow them to cool down.
- Keep brake fluid away from painted surfaces as it can damage paint.
- Dispose of old brake components and fluids responsibly according to local regulations.

Product Overview

The Bendix Premium PRT1813 Rear Brake Rotor is manufactured from high-grade cast iron, designed to match the original equipment's fit, form, and function. It provides optimal performance, quiet operation, and smooth braking. The rotor is dynamically balanced to minimize vibrations and engineered to withstand the thermal demands of daily driving.

Key Features:

- **OE Replacement:** Engineered to meet original equipment specifications.
- **Superior Performance:** Delivers reliable stopping power.
- **Heat Dissipation:** Advanced design for efficient heat management, reducing brake fade.
- **Noise Reduction:** Designed to minimize noise and vibration for a smooth braking experience.
- **Vehicle Application:** Compatible with specific Mercedes-Benz models as listed in the specifications.

Operational Use	PREMIUM	PRIORITY1	FLEETMETLOK	POLICE
OE Replacement	✓	✓		
Daily Driver	✓	✓		
Daily Driver with Enhanced Performance		✓		
Truck / SUV Daily Driver without Towing & Hauling	✓	✓		
Truck / SUV Daily Driver with Towing & Hauling			✓	
EV / Hybrid Plug-In Vehicle		✓		
Severe Duty / Last Mile Delivery			✓	
Bus / Commercial Vehicle			✓	
Police Service Vehicle			✓	✓

Image: Graphic illustrating key features of Bendix Premium rotors, including 95%+ vehicle application coverage, OEM style vane configurations for heat dissipation, design to OEM specifications for balance, and edge coding for discard thickness.

Setup and Installation

Installation of brake rotors requires mechanical aptitude and specialized tools. It is strongly recommended that installation be performed by a qualified automotive technician. Refer to your vehicle's service manual for specific torque specifications and procedures.

General Installation Steps (Consult Vehicle Service Manual for Details):

1. Safely lift and support the vehicle. Remove the wheel.
2. Remove the brake caliper and caliper bracket. Support the caliper to prevent strain on the brake hose.
3. Remove the old brake rotor. Clean the wheel hub mounting surface thoroughly to ensure proper seating of the new rotor.
4. Install the new Bendix Premium PRT1813 rotor onto the hub. Ensure it sits flush.
5. Reinstall the caliper bracket and caliper, tightening all fasteners to the vehicle manufacturer's specified torque.

6. Install new brake pads (recommended when replacing rotors).
7. Bleed the brake system if lines were opened.
8. Reinstall the wheel and lower the vehicle.

Verifying Part Fitment:

Before installation, ensure the rotor is the correct part for your specific vehicle model and year. You can often verify fitment using online tools or by cross-referencing part numbers with your vehicle's specifications.

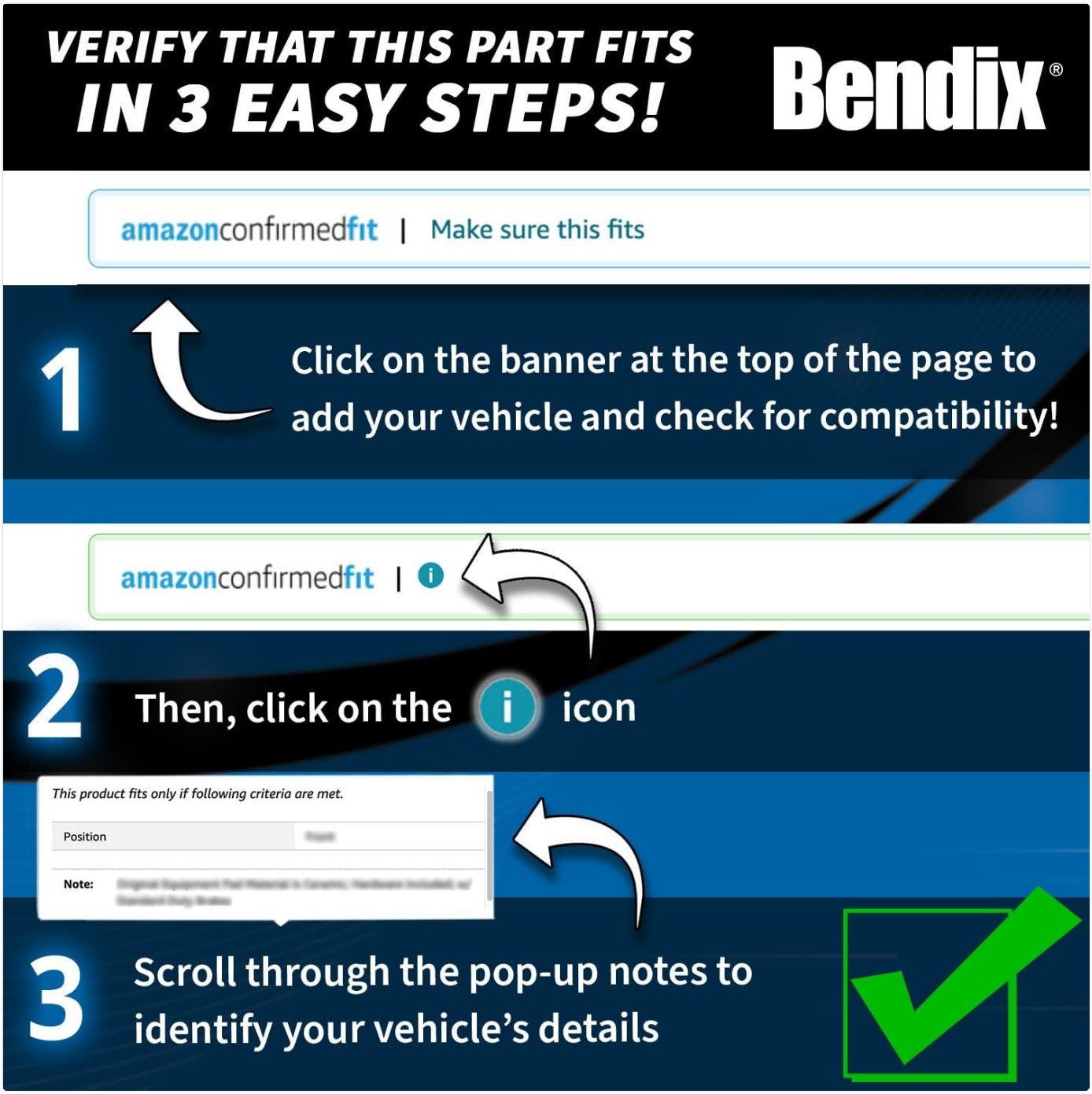

Image: A guide demonstrating three steps to verify part fitment, typically involving an online compatibility checker. This ensures the correct brake rotor is selected for the vehicle.

Operating and Break-In Procedure

After installing new brake rotors and pads, a proper break-in procedure is crucial for optimal performance and longevity. This process, also known as bedding-in, helps to transfer an even layer of friction material from the pads to the rotor surface.

Recommended Break-In Procedure:

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 process 5-6 times, allowing a short cool-down period between each stop.
4. After the initial series, drive for several minutes without braking to allow the system to cool down completely.
5. Repeat the entire process (5-6 moderate stops followed by cooling) one more time.

During the break-in period, avoid hard braking, sudden stops, or prolonged braking (e.g., downhill braking) to prevent overheating and uneven pad material transfer. You may notice a slight burning smell; this is normal. Full braking performance will be achieved after the break-in period.

Maintenance

Regular inspection and maintenance of your brake system are vital for safety and performance. Bendix Premium rotors are designed for long-lasting performance, but their lifespan depends on driving conditions and maintenance habits.

Inspection and Care:

- **Visual Inspection:** Periodically inspect rotors for signs of wear, such as deep grooves, cracks, or excessive rust. Check for uneven wear patterns.
- **Thickness Measurement:** Rotors have a minimum thickness specification (often stamped on the rotor edge). Replace rotors if they fall below this minimum.
- **Brake Pad Condition:** Always check brake pad wear when inspecting rotors. Worn pads can damage new rotors.
- **Cleaning:** Keep rotors clean from dirt, debris, and corrosive materials.
- **Professional Check-ups:** Have your brake system professionally inspected during routine vehicle maintenance.

Replacement of brake rotors should occur when they are worn beyond their service limit, show signs of damage, or when recommended by a qualified technician. It is generally recommended to replace rotors in pairs (both rear rotors) to maintain balanced braking performance.

Troubleshooting

While Bendix Premium rotors are designed for optimal performance, certain issues can arise. This section outlines common brake-related symptoms and potential causes.

Symptom	Possible Cause	Solution
Brake Noise (Squealing/Grinding)	Worn brake pads, improper break-in, foreign material, caliper issues.	Inspect pads, re-perform break-in, clean components, check caliper function.
Vibration/Pulsation during Braking	Rotor run-out, uneven pad material transfer, warped rotors (less common with quality rotors).	Check rotor run-out, re-perform break-in, inspect for damage.
Reduced Braking Performance	Overheated brakes (fade), worn pads, air in brake lines, contaminated pads/rotors.	Allow brakes to cool, inspect pads, bleed brake lines, clean/replace contaminated parts.
Pulling to One Side when Braking	Sticking caliper, uneven pad wear, contaminated brake fluid, suspension issues.	Inspect calipers, check pads, flush brake fluid, inspect suspension.

If you experience persistent brake issues, consult a certified automotive technician immediately. Do not attempt to drive a vehicle with compromised braking performance.

Specifications

Detailed specifications for the Bendix Premium PRT1813 Rear Brake Rotor.

Attribute	Detail
Brand	Bendix
Model	Bendix Premium
Item Model Number	PRT1813
Manufacturer Part Number	PRT1813
Position	Rear
Material	Cast Iron
Exterior Finish	Machined
Item Weight	12 pounds
Product Dimensions	12.13 x 12.13 x 2.51 inches
Vehicle Service Type	Cars, Trucks, SUV
Automotive Fit Type	Vehicle Specific Fit
OEM Part Numbers	1404230412, 140423041210, A1404230412, A140423041210
UPC	887243141987
Global Trade Identification Number	00887243141987
Special Features	Quality formulated G10H18 castings, Full-Line coverage: Domestic, Asian, and European
Country of Origin	China
Date First Available	October 25, 2017

Vehicle Application:

- Mercedes-Benz 400SE 1992
- Mercedes-Benz 400SEL 1993
- Mercedes-Benz 500SEC 1993
- Mercedes-Benz 500SEL 1993-1992
- Mercedes-Benz 600SEC 1993
- Mercedes-Benz 600SEL 1993-1992
- Mercedes-Benz CL500 1999-1998
- Mercedes-Benz CL600 1999-1998
- Mercedes-Benz S420 1999-1994

- Mercedes-Benz S500 2005-1994
- Mercedes-Benz S600 1999-1994

What's in the Box

The Bendix Premium PRT1813 Rear Brake Rotor package typically includes:

- (1) Bendix Premium PRT1813 Rear Brake Rotor

Image: An illustration showing Bendix brake rotors and pads, often packaged together or sold as complementary components. This image represents the typical product and its packaging.

Warranty Information

Bendix products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the PRT1813 Rear Brake Rotor, please refer to the official Bendix website or contact Bendix customer support directly. Warranty coverage typically addresses manufacturing defects and material flaws under normal use and service.

Customer Support

For technical assistance, product inquiries, or warranty claims, please contact Bendix customer support. Have your product model number (PRT1813) and purchase information ready when contacting support.
You can typically find contact information on the official Bendix website or through your product retailer.