

Wagner PD668

Wagner ThermoQuiet PD668 Ceramic Disc Brake Pad Set Instruction Manual

Model: PD668

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Wagner ThermoQuiet PD668 Ceramic Disc Brake Pad Set. These brake pads are engineered for optimal performance, featuring a zero-copper friction formulation and Integrally Molded Insulator (IMI™) technology for quiet operation and extended durability. Please read this manual thoroughly before proceeding with installation or use.

2. PRODUCT FEATURES

The Wagner ThermoQuiet PD668 Ceramic Disc Brake Pads offer several advanced features:

- **Quieter Operation:** Application-specific design and a unique laser-shaped friction material distribute heat, sound, and vibration to minimize noise.
- **Long Life:** Superior formulation dissipates heat effectively, contributing to long-lasting friction performance and reduced brake fade.
- **Cleaner Wheels:** The proprietary formulation provides effective braking performance while reducing rotor wear and brake dust accumulation.
- **One-Piece Design:** Integrally Molded Insulator (IMI™) technology integrates the friction material, backing plate, and insulator into a single brake pad unit for select applications.
- **Hardware Included:** Premium stainless-steel hardware is included for specific applications to ensure proper fit and function.
- **Comprehensive Coverage:** These brake pads are available for a wide range of vehicles.
- **Zero Copper Formulation:** Features Wagner OE25 zero-copper friction formulation, meeting environmental standards.
- **Asbestos-Free:** Manufactured with asbestos-free friction material for safety.



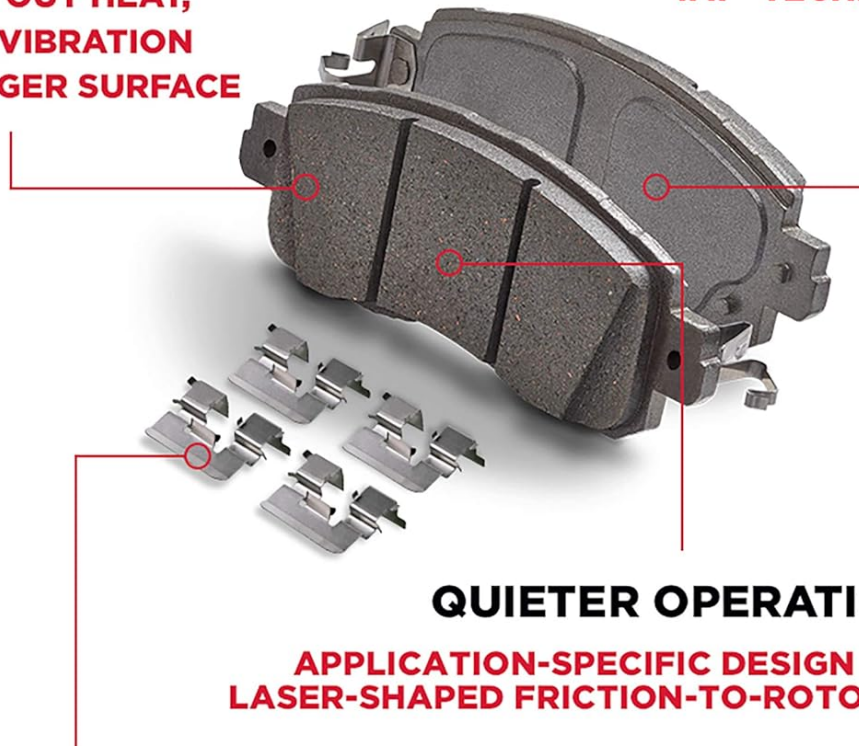
Image: A set of four Wagner ThermoQuiet PD668 ceramic disc brake pads, showcasing their design and friction material.

REDUCES BRAKE FADE

**SPREADS OUT HEAT,
SOUND & VIBRATION
OVER A LARGER SURFACE**

ONE-PIECE BRAKE PAD

IMI™ TECHNOLOGY



QUIETER OPERATION

**APPLICATION-SPECIFIC DESIGN & UNIQUE
LASER-SHAPED FRICTION-TO-ROTOR INTERFACE**

**PREMIUM STAINLESS-STEEL
HARDWARE FOR
SELECT APPLICATIONS**

WAGNER | TQ®

Image: Diagram illustrating key features of Wagner TQ brake pads, including heat dissipation, one-piece IMI technology, and premium hardware.

3. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

- Brake system work should only be performed by qualified personnel. Improper installation can lead to brake failure and serious injury or death.
- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working on vehicle brake systems.
- Ensure the vehicle is securely supported on jack stands before beginning any work. Never rely solely on a jack.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep brake fluid away from painted surfaces as it can damage paint.
- Dispose of old brake components and fluids according to local environmental regulations.

4. WHAT'S IN THE BOX

Your Wagner ThermoQuiet PD668 Ceramic Disc Brake Pad Set package typically includes:

- Ceramic Disc Brake Pads (Set of 4 for one axle)
- Premium Stainless-Steel Hardware (for select applications)

QUIETER OPERATION

Application-specific design and unique laser-shaped friction spreads out heat, sound and vibration



Image: A set of Wagner TQ brake pads along with the included stainless-steel hardware components, ready for installation.

5. INSTALLATION / SETUP

This section provides a general overview of brake pad replacement. Always consult your vehicle's specific service manual for detailed instructions and safety precautions.

5.1. Tools and Materials Required

- Vehicle service manual
- Jack and jack stands
- Lug wrench
- Socket set and ratchet
- C-clamp or brake caliper piston compression tool
- Wire brush
- Brake cleaner

- High-temperature brake lubricant (e.g., Molylube, often included)
- Torque wrench
- Personal Protective Equipment (PPE)

5.2. General Installation Steps

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen lug nuts on the wheel(s) to be serviced.
2. **Lift and Secure:** Jack up the vehicle and secure it with jack stands. Remove the lug nuts and the wheel.
3. **Remove Caliper:** Locate the brake caliper. Remove the caliper mounting bolts. Carefully slide the caliper off the rotor and suspend it using a wire or bungee cord to avoid stressing the brake hose. Do not let the caliper hang by the brake hose.
4. **Remove Old Pads:** Remove the old brake pads and any shims or hardware. Inspect the rotor for wear, scoring, or damage. Consider replacing rotors if necessary (e.g., with Wagner E-Shield Rotors).
5. **Clean and Lubricate:** Clean the caliper bracket and mounting points with a wire brush and brake cleaner. Apply a thin layer of high-temperature brake lubricant to the caliper slide pins and any metal-to-metal contact points where the pads slide.
6. **Compress Piston:** Use a C-clamp or brake caliper piston compression tool to slowly push the caliper piston(s) back into the caliper bore. This creates space for the new, thicker brake pads. Monitor the brake fluid reservoir to prevent overflow.
7. **Install New Hardware and Pads:** Install the new stainless-steel hardware (if included) onto the caliper bracket. Insert the new Wagner ThermoQuiet PD668 brake pads into the caliper bracket, ensuring they fit correctly and slide freely.
8. **Reinstall Caliper:** Carefully slide the caliper back over the new pads and rotor. Reinstall and tighten the caliper mounting bolts to the manufacturer's specified torque.
9. **Reinstall Wheel:** Reinstall the wheel and hand-tighten the lug nuts. Lower the vehicle and then fully tighten the lug nuts to the manufacturer's specified torque in a star pattern.
10. **Pump Brakes:** Before driving, slowly pump the brake pedal several times until a firm pedal feel is achieved. This seats the caliper pistons against the new pads. Check the brake fluid level and top off if necessary.
11. **Test Drive:** Perform a cautious test drive in a safe area to ensure proper brake function.

CLEANER WHEELS

Proprietary formulation provides reduced rotor wear, helping to cut down on brake dust



Image: A gloved hand holding a new brake pad, positioned near a vehicle's brake rotor and caliper, illustrating the installation process.

PAIR PREMIUM WITH PREMIUM

Always pair premium Wagner TQ[®] brake pads with Wagner E-Shield[®] Rotors



Image: A Wagner TQ brake pad set displayed alongside a Wagner E-Shield rotor, emphasizing the recommendation to pair premium components for optimal braking performance.

6. OPERATING (BRAKE-IN PROCEDURE)

Proper break-in (also known as bedding-in) of new brake pads is crucial for optimal performance, longevity, and quiet operation. This process transfers a thin, even layer of friction material from the pads to the rotor surface.

6.1. Recommended Break-In Procedure

1. Find a safe, open area with minimal traffic.
2. Accelerate to approximately 35 mph (56 km/h).
3. Apply moderate brake pressure to slow down to about 10 mph (16 km/h). Do not come to a complete stop.
4. Release the brakes and drive for a short distance (about 30 seconds) to allow the brakes to cool slightly.
5. Repeat this process 5-6 times.
6. After the last stop, drive for several minutes without braking to allow the entire brake system to cool down.

completely.

7. Avoid hard braking or prolonged heavy braking for the first 200 miles (320 km) after installation.

This procedure helps to properly seat the pads and rotors, preventing glazing and ensuring consistent braking performance.

7. MAINTENANCE

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

- **Routine Inspection:** Inspect brake pads, rotors, calipers, and brake lines at least once a year or every 12,000 miles (19,000 km), or as recommended by your vehicle manufacturer.
- **Pad Wear:** Replace brake pads when the friction material thickness reaches the manufacturer's minimum specification, typically around 2-3mm.
- **Brake Fluid:** Check brake fluid level regularly and ensure it is within the recommended range. Brake fluid should be flushed and replaced according to your vehicle manufacturer's schedule.
- **Rotor Condition:** Inspect rotors for excessive wear, deep grooves, cracks, or warping. Replace rotors if they are below minimum thickness or show significant damage.
- **Caliper Function:** Ensure calipers slide freely and pistons retract properly. Lubricate slide pins as needed.

8. TROUBLESHOOTING

Symptom	Possible Cause	Solution
Squealing/Grinding Noise	Improper break-in, worn pads (metal-on-metal), foreign object, loose hardware, glazed rotors.	Perform break-in procedure. Inspect pads for wear; replace if necessary. Check for foreign objects. Ensure hardware is secure and lubricated. Inspect rotors for glazing.
Vibration/Pulsation during Braking	Warped rotors, uneven pad wear, loose wheel bearings, worn suspension components.	Inspect and replace warped rotors. Check for even pad wear. Have wheel bearings and suspension inspected by a professional.
Soft or Spongy Brake Pedal	Air in brake lines, low brake fluid, faulty master cylinder, leaking brake line/caliper.	Bleed brake system to remove air. Check and top off brake fluid. Inspect entire brake system for leaks. Consult a professional if issues persist.
Vehicle Pulls to One Side when Braking	Sticking caliper, uneven pad wear, contaminated brake pad, brake hose restriction.	Inspect calipers for proper function and lubricate slide pins. Check for uneven pad wear. Inspect brake hoses for damage or blockage.

If you are unable to diagnose or resolve a braking issue, it is recommended to consult a certified automotive technician.

9. SPECIFICATIONS

Attribute	Detail
Brand	Wagner
Model Number	PD668

Attribute	Detail
Material	Ceramic
Auto Part Position	Front
Vehicle Service Type	Passenger Car
Specification Met	OEM
Item Weight	1.5 pounds
Product Dimensions	8.5 x 7.5 x 5.3 inches
UPC	008536171119

10. WARRANTY AND SUPPORT

For specific warranty information regarding your Wagner ThermoQuiet PD668 Ceramic Disc Brake Pad Set, please refer to the documentation included with your purchase or visit the official Wagner website. Warranty terms and conditions may vary.

For technical support, product inquiries, or assistance with installation, please contact Wagner customer service through their official website or authorized distributors.

Online Resources:

- [Wagner Brakes Store on Amazon](#)
- [Official Wagner Brakes Website \(Example Link - actual URL may vary\)](#)

