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› ATE EU427 Original Disc Brake Pad Set User Manual

ATE 13.0460-4043.2

ATE EU427 Original Disc Brake Pad Set

Model: 13.0460-4043.2

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your ATE EU427 Original Disc Brake Pad Set. ATE brake pads are engineered for optimal performance and safety. Please read this manual thoroughly before proceeding with any installation or maintenance procedures.

2. PRODUCT OVERVIEW

The ATE EU427 Original Disc Brake Pad Set consists of semi-metallic brake pads designed for specific automotive applications. These pads are manufactured to meet stringent quality standards, ensuring reliable braking performance and durability.



Figure 2.1: ATE EU427 Original Disc Brake Pad Set packaging and components. This image displays the product box and two brake pads, highlighting the brand and product type.

3. SETUP AND INSTALLATION

Installation of brake pads requires specialized tools and knowledge. It is strongly recommended that installation be performed by a qualified automotive technician. Incorrect installation can lead to brake system failure, resulting in serious injury or death.

3.1 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 work under a vehicle supported only by a jack.
- Refer to your vehicle's service manual for specific brake system procedures and torque specifications.
- Avoid contact with brake fluid, as it can damage paint and irritate skin.

3.2 General Installation Steps (Consult Vehicle Manual for Specifics)

1. Lift and secure the vehicle. Remove the wheel.
2. Remove the brake caliper mounting bolts and carefully remove the caliper from the rotor. Do not let the caliper hang by the brake hose.
3. Remove the old brake pads from the caliper bracket.
4. Inspect the brake rotor for wear, scoring, or damage. Replace or resurface as necessary.
5. Clean the caliper and caliper bracket thoroughly, removing any rust or debris.
6. Apply a thin layer of high-temperature brake lubricant to the caliper slide pins and any metal-to-metal contact points on the brake pads and caliper bracket (excluding the friction material).
7. Install the new ATE EU427 brake pads into the caliper bracket. Ensure they fit correctly and the wear indicators (if present) are positioned properly.
8. Use a caliper piston compression tool to retract the caliper pistons.
9. Reinstall the caliper onto the rotor and secure the mounting bolts to the manufacturer's specified torque.
10. Reinstall the wheel and lower the vehicle.
11. Repeat for all wheels requiring brake pad replacement.
12. After installation, pump the brake pedal several times to ensure the pistons are seated against the new pads before driving.

4. OPERATING AND BREAK-IN PROCEDURE

Proper break-in (also known as bedding-in) of new brake pads is crucial for optimal performance and longevity. This process helps to transfer a thin layer of friction material to the rotor surface, ensuring consistent braking and reducing noise.

4.1 Break-in Procedure

1. After installation, drive the vehicle at a moderate speed (e.g., 30-40 mph).
2. Apply the brakes moderately (not aggressively) to slow down to about 10 mph. Do not come to a complete stop.
3. Repeat this process approximately 10-15 times, allowing a few minutes between each braking cycle for the brakes to cool slightly.
4. Avoid hard braking or prolonged braking during the first 200-300 miles after new pad installation.
5. Listen for any unusual noises and observe braking performance during this period.

During the break-in period, you may notice a slight odor or reduced braking effectiveness. This is normal. Braking performance will improve as the pads and rotors bed-in.

5. MAINTENANCE

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

5.1 Inspection Schedule

- Inspect brake pads, rotors, and fluid levels at every oil change or at least every 10,000-12,000 miles (16,000-19,000 km), or as recommended by your vehicle manufacturer.
- Check for uneven pad wear, cracks, or excessive scoring on the rotors.
- Ensure caliper slide pins move freely and are properly lubricated.

5.2 When to Replace Brake Pads

Brake pads should be replaced when the friction material wears down to the minimum thickness specified by the vehicle manufacturer, typically around 2-3mm. Common indicators for replacement include:

- **Squealing or grinding noises:** Often caused by wear indicators or metal-on-metal contact.
- **Reduced braking performance:** Longer stopping distances or a spongy pedal feel.

- **Vibration:** Pulsation in the brake pedal or steering wheel, often indicating warped rotors or uneven pad wear.
- **Visual inspection:** If the friction material is visibly thin.

6. TROUBLESHOOTING

This section addresses common issues that may arise with brake pads. For complex problems, consult a qualified technician.

Symptom	Possible Cause	Action
Squealing/Screeching Noise	New pad break-in, worn pads (wear indicator), improper installation, glazed pads/rotors.	Ensure proper break-in. Inspect pads for wear. Re-lubricate contact points. Check for proper caliper function.
Grinding Noise	Pads completely worn, metal-on-metal contact.	Immediate inspection and replacement of pads and potentially rotors. Do not drive the vehicle.
Vibration/Pulsation	Warped rotors, uneven pad wear, loose caliper components.	Inspect rotors for runout. Check caliper mounting and slide pins. Replace affected components.
Reduced Braking Performance	Improper break-in, contaminated pads, brake fluid issues, worn pads.	Ensure proper break-in. Inspect pads for contamination (oil/grease). Check brake fluid level and condition.

7. SPECIFICATIONS

Key specifications for the ATE EU427 Original Disc Brake Pad Set:

- Brand:** ATE
- Model Number:** 13.0460-4043.2
- Item Weight:** 2.51 ounces
- Product Dimensions:** 10.11 x 6.83 x 3.79 inches
- Manufacturer Part Number:** 13.0460-4043.2
- OEM Part Numbers:** 1605728, 1605877, 4467072, 90297537, 90485136
- Position:** Right (Note: Brake pads are typically sold in sets for an axle, ensure correct application for your vehicle.)
- Description:** Semi-Metallic Brake Pads

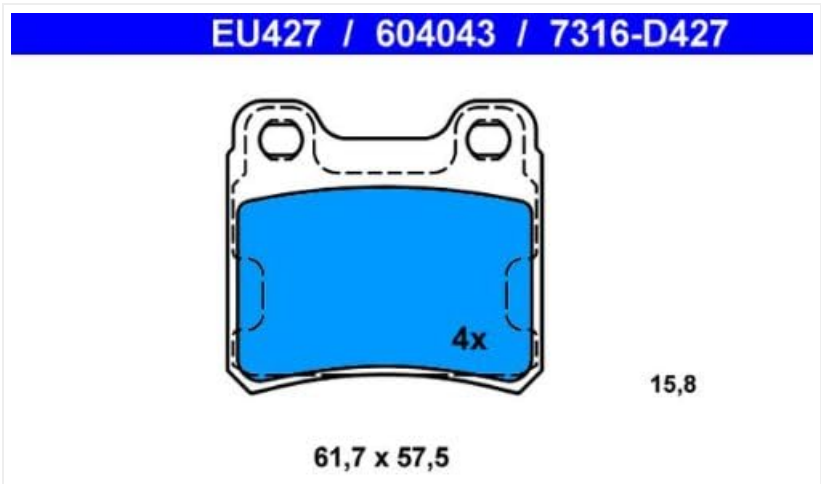


Figure 7.1: Technical diagram of ATE EU427 disc brake pad with dimensions. This diagram illustrates the specific measurements and shape of the brake pad.

8. WARRANTY AND SUPPORT

For specific warranty information regarding your ATE EU427 Original Disc Brake Pad Set, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Warranty terms and conditions may vary.

For technical support or further assistance, please contact ATE customer service or consult a certified automotive professional.

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