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> A-Premium Disc Brake Caliper Assembly User Manual for Mercedes-Benz W124/W210 Front Left (Model APBC3128)

A-Premium APBC3128

A-Premium Disc Brake Caliper Assembly User Manual

Model: APBC3128 | For Mercedes-Benz W124/W210 Front Left

1. PRODUCT OVERVIEW

This manual provides essential information for the A-Premium Disc Brake Caliper Assembly, designed for the front left (driver side) of specific Mercedes-Benz W124 and W210 models. This component is crucial for the vehicle's braking system, ensuring safe and effective deceleration.



Image 1.1: The A-Premium Disc Brake Caliper Assembly. This component is responsible for pressing the brake pads against the rotor to slow

down or stop the vehicle.

2. VEHICLE FITMENT

This A-Premium Disc Brake Caliper Assembly (Model APBC3128) is compatible with the following Mercedes-Benz models:

- **Mercedes-Benz 300CE:** 1993 L6 3.2L (Front Left, Driver Side; From Chassis # B862122)
- **Mercedes-Benz 300E:** 1993 L6 3.2L (Front Left, Driver Side)
- **Mercedes-Benz E320:** 1994 L6 3.2L (Front Left, Driver Side; From Chassis # B864308), 1995 L6 3.2L (Front Left, Driver Side)
- **Mercedes-Benz 400E:** 1993 V8 4.2L (Front Left, Driver Side)
- **Mercedes-Benz E420:** 1994-1995 V8 4.2L (Front Left, Driver Side)

Note: This caliper assembly comes without a bracket. Please verify compatibility with your vehicle's specific requirements before installation.

3. SPECIFICATIONS

Manufacturer	PremiumpartsWhosale
Brand	A-Premium
Item Weight	10.45 pounds
Package Dimensions	10.04 x 8.66 x 5.31 inches
Manufacturer Part Number	APBC3128
OEM Part Numbers	343552, 19-6248, 0014200483, A0014200483, 196248

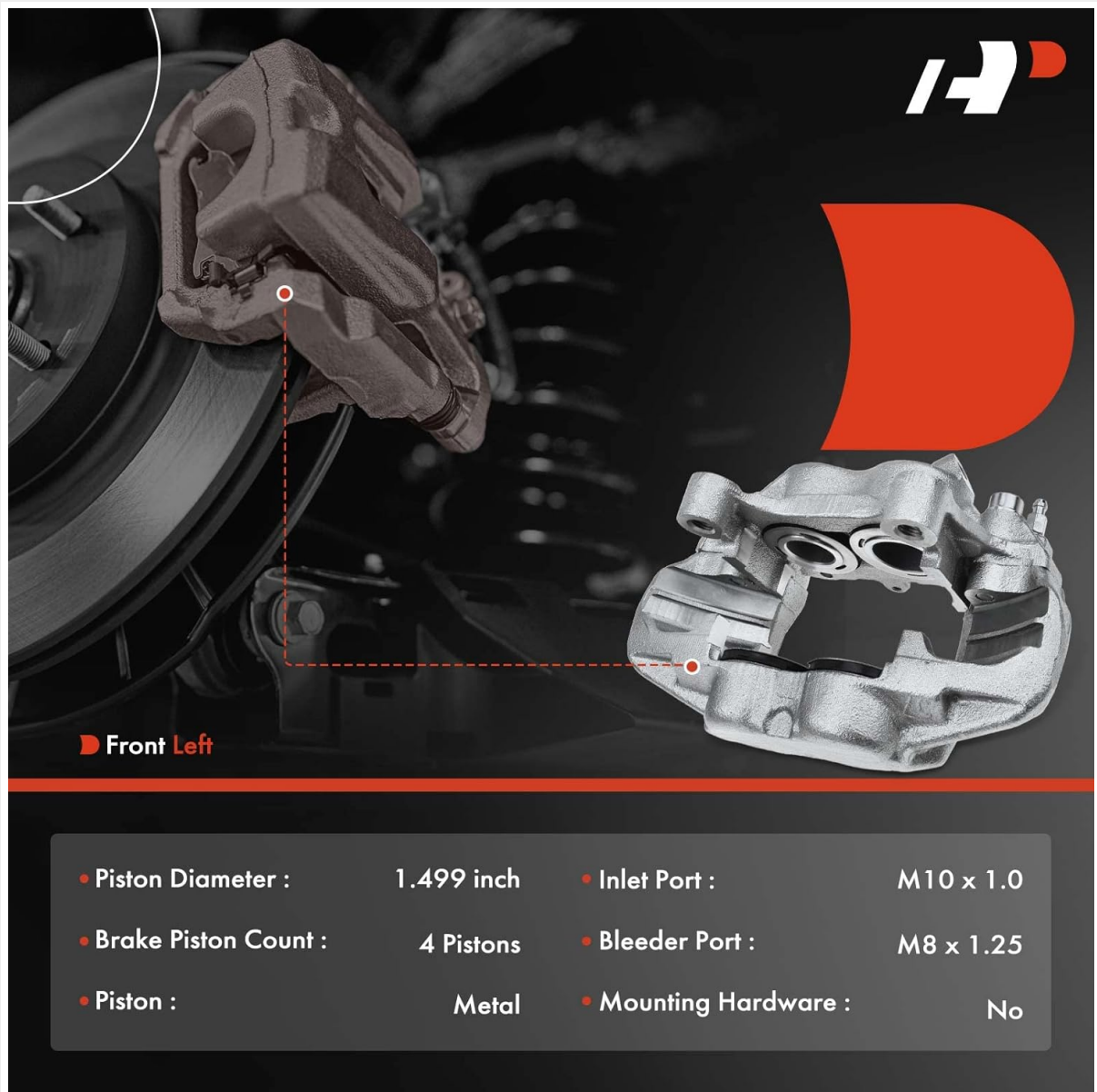


Image 3.1: Diagram illustrating key specifications of the brake caliper, including piston diameter, piston count, inlet port, and bleeder port details.

4. SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of your braking system. It is highly recommended that this component be installed by a qualified mechanic.

4.1 Pre-Installation Checks

- Ensure all components are present and undamaged.
- Verify the caliper is the correct part for your vehicle's make, model, year, and specific wheel position (Front Left, Driver Side).
- Gather all necessary tools and safety equipment.

4.2 Installation Attention



INSTALLATION ATTENTION

Don't touch the friction block with lubricant and ensure the guide pins are clean before installing.

When disconnecting the brake pipe, make sure that the brake pipe and the opening on the brake caliper are plugged to prevent dust from entering the brake system.

Image 4.1: Visual guide highlighting critical points during brake caliper installation.

- Do not touch the friction block with lubricant.
- Ensure the guide pins are clean before installing.
- When disconnecting the brake pipe, make sure that the brake pipe and the opening on the brake caliper are plugged to prevent dust from entering the brake system.

Attention: Please use the appropriate shop manual for your vehicle to obtain specific instructions. If you do not have an installation manual or enough skills to install this part, it is recommended that you seek help from a qualified mechanic.

5. OPERATING PRINCIPLES

The disc brake caliper is a vital part of your vehicle's hydraulic braking system. When the brake pedal is pressed, hydraulic pressure forces the caliper's pistons to move, clamping the brake pads against the rotating brake rotor. This friction converts kinetic energy into heat, slowing down the wheel and, consequently, the vehicle.

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Video 5.1: An animation demonstrating the operational principle of a disc brake caliper, showing how hydraulic pressure activates the pistons to engage the brake pads against the rotor.

5.1 Superior Sealing Performance



Image 5.2: Cross-section view highlighting the dual-seal and dust cover components of the piston, crucial for preventing fluid leakage and protecting against contaminants.

- **Dual-seal:** Designed to avoid brake fluid leakage and ensure excellent braking capacity.
- **Dust cover:** Prolongs the service life of the product by preventing dust and debris from entering the piston area.

6. MAINTENANCE AND CARE

Regular inspection and proper maintenance are essential to ensure the longevity and optimal performance of your brake caliper assembly.

6.1 Anti-Rust Coating

ANTI-RUST COATING

Strong anti-corrosion to protect the caliper

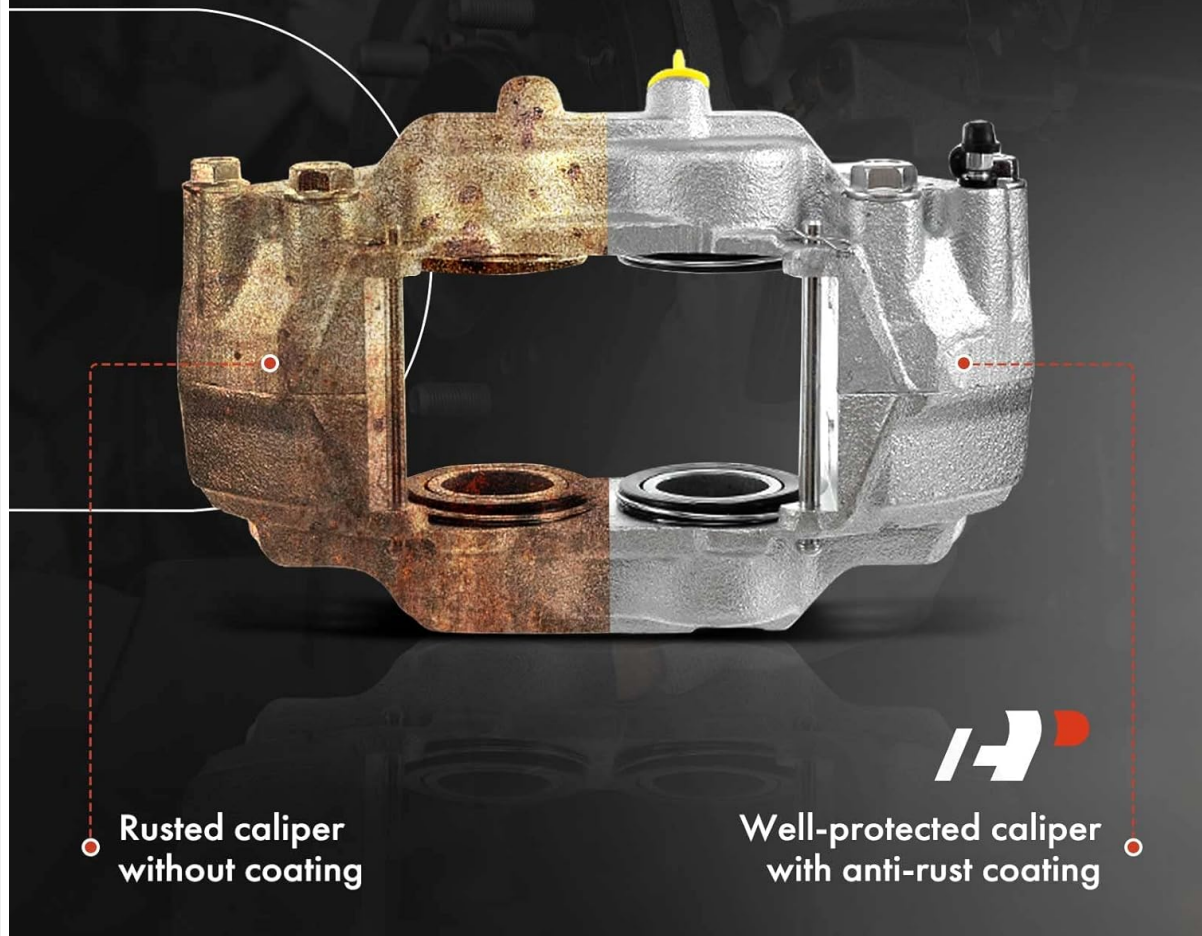


Image 6.1: A visual comparison showing a rusted caliper without coating versus a well-protected caliper with anti-rust coating, demonstrating the protective benefits.

The A-Premium brake caliper features a strong anti-corrosion coating to protect the caliper from rust and extend its lifespan, especially in challenging environmental conditions.

6.2 General Maintenance Tips

- Periodically inspect the caliper for any signs of leakage, damage, or excessive wear.
- Ensure brake fluid levels are maintained according to your vehicle manufacturer's recommendations.
- Replace brake pads and rotors as needed to prevent premature caliper wear.
- Keep the caliper and surrounding areas clean from dirt and road debris.

7. TROUBLESHOOTING

If you experience any issues with your braking system, it is crucial to address them promptly. Common symptoms of brake caliper problems include:

- Squealing or grinding noises during braking.
- Pulling to one side when braking.
- Soft or spongy brake pedal.

- Uneven brake pad wear.

For any braking system concerns, consult a qualified mechanic immediately. Attempting repairs without proper knowledge and tools can compromise vehicle safety.

8. WARRANTY INFORMATION

A-Premium offers a one-year unlimited-mileage guarantee on this disc brake caliper. This warranty covers defects in materials and workmanship under normal use and service. For warranty claims or further details, please refer to the official A-Premium support channels or your point of purchase.

9. SUPPORT

For additional assistance, technical support, or inquiries regarding the A-Premium Disc Brake Caliper Assembly, please contact the manufacturer or your retailer. Always provide your product model number (APBC3128) and vehicle details when seeking support to ensure accurate and timely assistance.