

Bilstein 24-067829

Bilstein B4 Shock Absorber 24-067829 User Manual

For Mercedes-Benz A-Class Vehicles

1. PRODUCT OVERVIEW

This manual provides essential information for the Bilstein B4 24-067829 shock absorber. The Bilstein B4 series is designed to restore original driving performance and comfort. This specific model is a monotube gas pressure shock absorber intended for the rear axle of compatible Mercedes-Benz A-Class vehicles.

Key features include:

- Monotube Gas Pressure Technology
- Designed for Rear Axle Installation
- Optimized for Original Equipment Manufacturer (OEM) Quality
- Provides consistent damping force under various load conditions



Image 1.1: Bilstein B4 Shock Absorber 24-067829 in its product packaging.

2. SETUP AND INSTALLATION

The Bilstein B4 24-067829 shock absorber is designed for installation on the **rear axle** of compatible Mercedes-Benz A-Class vehicles. This component is a damper without spring support, meaning it functions solely as a shock absorber and does not carry the vehicle's spring.

Warning: Installation of automotive suspension components requires specialized tools, knowledge, and safety precautions. Improper installation can lead to serious injury or vehicle damage. It is highly recommended that this product be installed by a qualified automotive technician.

2.1 Pre-Installation Checks

- Verify that the shock absorber model 24-067829 is correct for your specific vehicle make, model, and year.
- Inspect the shock absorber for any signs of shipping damage.
- Ensure all necessary mounting hardware (not included with the shock absorber unless specified) is available and in good condition.

2.2 Installation Steps (General Guidelines)

1. Safely lift and support the vehicle on a level surface using appropriate jack stands.

2. Remove the wheel(s) to access the rear suspension.
3. Carefully remove the old shock absorber, noting the orientation of all components.
4. Install the new Bilstein B4 24-067829 shock absorber, ensuring all mounting points are correctly aligned and secured to the manufacturer's torque specifications.
5. Reinstall the wheel(s) and lower the vehicle.
6. Perform a final check of all fasteners and ensure proper suspension movement.



Image 2.1: Bilstein B4 Shock Absorber 24-067829, showing its monotube design.

3. OPERATING PRINCIPLES

The Bilstein B4 24-067829 is a monotube gas pressure shock absorber. This design offers several advantages:

- **Consistent Damping:** The monotube design, combined with gas pressure, prevents oil cavitation (foaming), ensuring a constant damping force even under extreme conditions or prolonged use.
- **Precise Handling:** The high gas pressure and large working piston provide a more direct and responsive feel, contributing to improved vehicle control and handling.
- **Heat Dissipation:** The single-tube construction allows for better heat dissipation, maintaining optimal performance.

These characteristics contribute to maximum safety, an optimum driving experience, and high traction, restoring the vehicle's original ride quality.

4. MAINTENANCE

Bilstein B4 shock absorbers are designed for long-term, maintenance-free operation. However, regular inspection of your vehicle's suspension components is recommended as part of routine vehicle maintenance.

4.1 Recommended Checks

- **Visual Inspection:** Periodically check the shock absorbers for any signs of oil leaks, physical damage (dents, bends), or corrosion.
- **Mounting Points:** Ensure all mounting bolts and nuts are secure and free from corrosion.
- **Bushings:** Inspect rubber bushings for cracks, wear, or deterioration. Worn bushings can lead to noise and reduced performance.
- **Dust Boots:** If present, ensure dust boots are intact to protect the piston rod from contaminants.

Any signs of significant wear, damage, or leakage should prompt a professional inspection and potential replacement.

5. TROUBLESHOOTING

If you experience issues with your vehicle's ride quality after installing or during the use of Bilstein B4 shock absorbers, consider the following common troubleshooting points:

5.1 Common Issues and Solutions

- **Excessive Bouncing or Poor Ride Comfort:** This could indicate a worn or faulty shock absorber. Ensure the correct model was installed and check for leaks.
- **Unusual Noises (Clunking, Squeaking):** Check all mounting hardware for proper torque. Worn bushings or loose components can cause noise.
- **Uneven Tire Wear:** While not solely a shock absorber issue, worn suspension components can contribute to uneven tire wear. Have your alignment checked.
- **Oil Leaks:** Any visible oil leaking from the shock absorber indicates a seal failure and requires replacement.

If troubleshooting steps do not resolve the issue, or if you suspect a defect, consult a qualified automotive technician for diagnosis and repair.

6. SPECIFICATIONS

Attribute	Detail
Brand	Bilstein
Model Number	24-067829
Shock Absorber Type	Monotube Gas Pressure
Installation Side	Rear
Compatibility	Mercedes-Benz A-Class
Contents	Damper without spring support
Product Dimensions	37.58 x 18.46 x 12.05 cm
Item Weight	71.1 g

Attribute	Detail
Exterior Finish	Zinc
Country of Origin	Germany
OEM Part Numbers (Cross-Reference)	BOGE:36-A87-0, MONROE:43112, GABRIEL:69444, KYB:553604, AL-KO:1150G, KYB:551921, QUINTON HAZELL:177122, SACHS:553 665, AL-KO:5150G, SACHS:553 663, MONROE:S5090, MONROE:E5090
GTIN	04025258457464

7. WARRANTY AND SUPPORT

For warranty information regarding your Bilstein B4 24-067829 shock absorber, please refer to the documentation provided at the time of purchase or contact your authorized Bilstein dealer or the official Bilstein website. Warranty terms and conditions may vary by region and retailer.

For technical support or further inquiries, please visit the official Bilstein website or contact their customer service department.