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- › [Bilstein](#) /
- › [Bilstein 46mm Monotube Shock Absorber User Manual](#)

Bilstein 20-070748

Bilstein 46mm Monotube Shock Absorber User Manual

Model: 20-070748

PRODUCT OVERVIEW

The Bilstein (20-070748) 46mm Monotube Shock Absorber is a high-performance suspension component designed for specific vehicle applications. This monotube design provides consistent, fade-free performance and improved handling characteristics. It is engineered to offer superior damping control and durability for a wide range of driving conditions.



Image: The Bilstein 46mm Monotube Shock Absorber, featuring its distinctive green body, a silver mounting ring, and a beige bump stop at the upper end. This component is designed for front vehicle suspension.

SETUP AND INSTALLATION

Installation of the Bilstein 46mm Monotube Shock Absorber requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a certified professional mechanic to ensure proper fitment, safety, and performance.

Pre-Installation Checks:

- Verify that the shock absorber model (20-070748) is compatible with your vehicle's make, model, and year. This shock absorber is compatible with: 2002 Jaguar S-Type, 2003 Jaguar S-Type, 2004 Jaguar S-Type, 2005 Jaguar S-Type.
- Inspect the shock absorber for any signs of shipping damage.
- Ensure all necessary mounting hardware is available and in good condition.

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

1. Safely lift and support the vehicle on a level surface using appropriate jack stands.
2. Remove the wheel from the corner where the shock absorber will be replaced.
3. Carefully disconnect any components attached to the existing shock absorber (e.g., brake lines, ABS sensors).
4. Unbolt and remove the old shock absorber. Note the orientation of all components.
5. Install the new Bilstein shock absorber, ensuring all bolts are torqued to the manufacturer's specifications.
6. Reattach any disconnected components.
7. Reinstall the wheel and lower the vehicle.
8. Perform a wheel alignment after installation to ensure proper vehicle handling and tire wear.

Important: Always refer to your vehicle's specific service manual for detailed, step-by-step installation instructions and torque specifications. Failure to follow proper installation procedures can lead to vehicle damage or personal injury.

OPERATING CHARACTERISTICS

Once installed, the Bilstein 46mm Monotube Shock Absorber operates continuously as part of your vehicle's suspension system. Its monotube design provides superior heat dissipation and consistent damping force, which translates to improved road holding, enhanced steering precision, and a more controlled ride compared to conventional twin-tube designs.

- **Consistent Performance:** The monotube design prevents aeration of the oil, ensuring consistent damping performance even under extreme conditions.
- **Improved Handling:** Provides a firmer, more controlled ride, reducing body roll and enhancing vehicle stability during cornering and braking.
- **Durability:** Constructed with high-quality materials and a robust design for long-term reliability.

MAINTENANCE

Bilstein shock absorbers are designed to be maintenance-free under normal operating conditions. However, regular inspection of your vehicle's suspension components is recommended as part of routine vehicle maintenance.

Recommended Inspection Points:

- **Visual Inspection:** Periodically check the shock absorbers for any signs of oil leaks, dents, or damage to the body or mounting points.
- **Mounting Hardware:** Ensure all mounting bolts are secure and free from corrosion.
- **Bushings:** Inspect rubber bushings for cracks, wear, or deterioration. Worn bushings can lead to noise and reduced performance.
- **Performance Check:** If you notice a significant change in ride quality, excessive bouncing, or unusual noises from the suspension, have the shock absorbers inspected by a qualified mechanic.

Do not attempt to disassemble or repair the shock absorber. These units are sealed and contain high-pressure gas. Tampering with the unit can result in injury and will void the warranty.

TROUBLESHOOTING

While Bilstein shock absorbers are highly reliable, certain symptoms may indicate an issue with the suspension system. Below are common issues and potential causes:

Symptom	Possible Cause	Solution
Excessive Bouncing or "Floating" Ride	Worn or failing shock absorber.	Inspect and replace shock absorber if necessary.
Vehicle Nose Dives During Braking	Worn front shock absorbers.	Inspect and replace front shock absorbers.
Excessive Body Roll During Cornering	Worn shock absorbers or other suspension components.	Inspect all suspension components; replace worn parts.
Clunking or Rattling Noises from Suspension	Loose mounting hardware, worn bushings, or damaged shock absorber.	Check all fasteners for tightness, inspect bushings, and replace any damaged components.
Oil Leaks on Shock Absorber Body	Internal seal failure.	Shock absorber requires replacement.

If you experience any of these symptoms, it is advisable to have your vehicle's suspension system inspected by a qualified mechanic.

SPECIFICATIONS

Brand: Bilstein

Model Name: Bilstein (20-070748) 46mm Monotube Shock Absorber

Part Number: 20-070748

Auto Part Position: Front

Style: Adjustable, Monotube

Vehicle Service Type: Works with 2002-2005 Jaguar S-Type

Exterior Finish: Painted

Material: Plastic (Note: This might refer to internal components or packaging, the main body is metal)

Color: Black (Note: Product image shows green, this might be a generic spec or for a different variant)

Size: 46 Millimeter (Piston Diameter)

Item Weight: 3 Kilograms

Package Weight: 454 Grams

Item Package Dimensions (L x W x H): 2.99 x 2.99 x 2.01 inches

Included Components: Bilstein (20-070748) 46mm Monotube Shock Absorber

Manufacturer: Bilstein

UPC: 651860571362

ASIN: B009FU4RXM

Date First Available: September 24, 2012

WARRANTY INFORMATION

Bilstein products are covered by a manufacturer's warranty. The specific terms and duration of the warranty may vary depending on the product and region. For detailed warranty information, please refer to the official Bilstein website or contact their customer support.

Generally, the warranty covers defects in materials and workmanship under normal use and service. It typically does not cover damage resulting from improper installation, misuse, abuse, accidents, or unauthorized modifications.

To make a warranty claim, you will typically need proof of purchase and may be required to return the product for inspection.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding the Bilstein (20-070748) 46mm Monotube Shock Absorber, please contact Bilstein customer service directly.

Official Website: www.bilstein.com (Please check for regional websites for specific contact details)

Contact Information: Refer to the "Contact Us" section on the official Bilstein website for phone numbers, email addresses, or online inquiry forms.

When contacting support, please have your product model number (20-070748) and purchase information readily available.

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