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Bilstein 24-245456

BILSTEIN 24-245456 Shock Absorber User Manual

Model: 24-245456

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Bilstein 24-245456 Shock Absorber. Designed for specific vehicle applications, this high-performance shock absorber enhances ride comfort and vehicle stability. Please read this manual thoroughly before proceeding with installation or use.
The Bilstein B6 (Performance) series shock absorbers are engineered to deliver improved handling and ride characteristics without lowering the vehicle. They are a direct fit upgrade for the specified vehicle models, such as the Ford EcoSport.

2. Product Overview

Figure 1: Bilstein 24-245456 Shock Absorbers

The image above displays four Bilstein B6 Performance shock absorbers. Each shock features a distinctive yellow body and a blue dust boot, indicative of the Bilstein B6 series. The shocks are designed for direct replacement and improved performance, providing enhanced damping and control for your vehicle's suspension system. Two of the shocks show the upper mounting eyelet, while the other two show the lower mounting pin with rubber bushings.

3. Installation and Setup

Installation of shock absorbers requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a qualified mechanic.

3.1 Safety Precautions

- Always use appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning work. Never rely solely on a jack.
- Do not work under a vehicle unless it is properly secured.
- Be aware of potential pinch points and hot components.

3.2 Pre-Installation Checks

1. Verify that the shock absorber model 24-245456 is correct for your vehicle's make, model, and year (e.g., Ford EcoSport).
2. Inspect the shock absorber for any signs of shipping damage.
3. Ensure all necessary mounting hardware (not included with shock) is available and in good condition.

3.3 Installation Steps (Rear Position)

Note: These are general steps. Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

1. Lift the vehicle and support it safely. Remove the wheel.
2. Locate the existing shock absorber.
3. Carefully remove the upper and lower mounting bolts/nuts securing the old shock absorber.
4. Remove the old shock absorber from the vehicle.
5. Install the new Bilstein 24-245456 shock absorber, ensuring proper orientation.
6. Secure the upper and lower mounting points with new or appropriate hardware, tightening to vehicle manufacturer's torque specifications.
7. Reinstall the wheel and lower the vehicle.
8. Repeat for the other side.

4. Operation and Performance

The Bilstein 24-245456 shock absorber is a passive component designed to control spring oscillations and maintain tire contact with the road surface. Once installed, it operates continuously as part of your vehicle's suspension system.

4.1 Expected Performance

- Improved vehicle handling and stability.
- Enhanced ride comfort by reducing excessive bouncing.
- Better tire adhesion, especially over uneven surfaces.
- Maintains original ride height (B6 series).

After installation, it is advisable to perform a wheel alignment to ensure optimal vehicle dynamics and tire wear.

5. Maintenance

Bilstein shock absorbers are designed for long-term, maintenance-free operation under normal driving conditions. However, periodic inspection is recommended as part of your vehicle's routine maintenance schedule.

5.1 Inspection Guidelines

- **Visual Inspection:** Check for any signs of oil leaks around the shock body or shaft. A light film of oil is normal, but excessive leakage indicates a seal failure.
- **Mounting Points:** Inspect the upper and lower mounting bolts and bushings for looseness, wear, or damage. Tighten any loose fasteners to specification.
- **Dust Boot:** Ensure the blue dust boot is intact and not torn, as it protects the shock shaft from debris.
- **Performance Check:** If you notice a significant decrease in ride comfort, excessive bouncing, or poor handling, the shock absorbers may need replacement.

6. Troubleshooting

Symptom	Possible Cause	Solution

Symptom	Possible Cause	Solution
Excessive vehicle bouncing after bumps	Worn or failing shock absorber	Inspect shock for leaks; consider replacement if worn.
Clunking or rattling noise from suspension	Loose mounting hardware; worn bushings	Check and tighten all mounting bolts to specification; replace worn bushings.
Uneven tire wear	Misalignment; worn suspension components (including shocks)	Perform a wheel alignment; inspect all suspension components.

7. Specifications

Manufacturer: Bilstein

Model Number: 24-245456

Series: B6 Performance

Application: Ford EcoSport (specific years/trims as per vehicle compatibility)

Position: Rear

Product Dimensions: 675 x 75 x 75 cm (approximate)

Item Weight: 1.7 kg (approximate)

Type: Monotube Gas Pressure

8. Warranty and Support

8.1 Warranty Information

Bilstein products are backed by a limited lifetime warranty against defects in material and workmanship. This warranty applies to the original purchaser and is non-transferable. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, please visit the official Bilstein website or contact their customer service.

8.2 Customer Support

For technical assistance, installation queries, or warranty claims, please contact Bilstein customer support:

- **Website:** www.bilstein.com
- **Phone:** Refer to the Bilstein website for regional contact numbers.
- **Email:** Refer to the Bilstein website for contact email.

When contacting support, please have your product model number (24-245456) and purchase details ready.

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