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› Bilstein 22-196408 Shock Absorber Instruction Manual for Kia Cee'd

Bilstein 22-196408

Bilstein 22-196408 Shock Absorber Instruction Manual

Model: 22-196408

1. INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of your Bilstein 22-196408 Shock Absorber. Designed for specific vehicle applications, this shock absorber is a critical component of your vehicle's suspension system, contributing to ride comfort, stability, and handling performance. Please read these instructions thoroughly before proceeding with installation or any related procedures.

The Bilstein 22-196408 Shock Absorber is compatible with Kia Cee'd (VL; B4) models and is designed for the front upper position.

2. SAFETY INFORMATION

Automotive suspension work can be hazardous. Always prioritize safety to prevent injury or damage to the vehicle. It is highly recommended that installation be performed by a qualified automotive technician.

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on a level surface using jack stands before beginning any work. Never rely solely on a jack.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Exercise caution when handling suspension components, as they may be under tension.
- Keep hands and clothing clear of moving parts.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 1x Bilstein 22-196408 Shock Absorber
- Any associated mounting hardware (as supplied by manufacturer)



Image 1: Bilstein 22-196408 Shock Absorber shown with its product packaging.



Image 2: Close-up view of the Bilstein 22-196408 Shock Absorber, highlighting its construction.

4. SPECIFICATIONS

Feature	Detail
Brand	Bilstein
Model Number	22-196408
Auto Part Position	Front Upper
Vehicle Service Type	Car (Kia Cee'd; VL; B4)
Exterior Finish	Silver
Material	Alloy Steel
Item Weight	8.47 pounds (3.84 kg)
Product Dimensions	68.9 x 269.69 x 68.9 inches
OEM Part Numbers	SACHS: 313 549, BOGE: 32-Q88-A
Manufacturer	ThyssenKrupp Bilstein Tuning GmbH

Note: Product dimensions provided as 68.9 x 269.69 x 68.9 inches. Please verify units with manufacturer specifications if precise measurements are critical.

5. INSTALLATION (SETUP)

The installation of a shock absorber requires specialized tools and knowledge. For optimal safety and performance, it is strongly recommended that this procedure be carried out by a certified automotive professional.

General Installation Steps (Professional Installation Recommended):

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the lug nuts on the wheel corresponding to the shock absorber to be replaced.
2. **Lift and Secure:** Safely lift the front of the vehicle using a hydraulic jack and secure it with sturdy jack stands. Remove the wheel.
3. **Access Shock Absorber:** Locate the existing shock absorber. Depending on the vehicle model, this may involve removing brake lines, ABS sensor wires, or other components that are attached to the strut assembly.
4. **Remove Old Shock:** Carefully unbolt the upper and lower mounting points of the old shock absorber. If it's part of a strut assembly, a spring compressor may be required to safely remove the spring. (*Note: This product is a shock absorber, not a complete strut assembly with spring.*)
5. **Install New Shock:** Position the new Bilstein 22-196408 Shock Absorber into place. Secure the upper and lower mounting bolts, tightening them to the manufacturer's specified torque values. Ensure all connections are firm and correct.
6. **Reassemble:** Reattach any components that were removed to access the shock absorber (e.g., brake lines, sensor wires).
7. **Lower Vehicle:** Reinstall the wheel, hand-tighten lug nuts, then lower the vehicle. Torque the lug nuts to the vehicle manufacturer's specifications.
8. **Final Check:** After installation, perform a visual inspection to ensure all components are correctly installed and secured. It is advisable to have a wheel alignment performed after suspension component replacement.

6. FUNCTION AND PERFORMANCE CHARACTERISTICS

The Bilstein 22-196408 Shock Absorber is engineered to provide consistent damping force, which is crucial for maintaining tire contact with the road surface. This component works by converting kinetic energy from suspension movement into heat, dissipating it to control spring oscillations.

- **Improved Ride Comfort:** Helps absorb road imperfections, leading to a smoother ride.
- **Enhanced Handling:** Contributes to better vehicle control, especially during cornering and braking.
- **Increased Stability:** Reduces body roll and pitch, improving overall vehicle stability.
- **Gas-Pressure Technology:** Bilstein's B4 series often utilizes gas-pressure technology to prevent foaming of the oil, ensuring consistent damping performance under various conditions.

7. MAINTENANCE

Regular inspection of your shock absorbers can help identify potential issues early and ensure continued safe operation of your vehicle.

- **Visual Inspection:** Periodically inspect the shock absorbers for signs of fluid leaks, bent rods, damaged bushings, or corrosion. Any visible damage or fluid leakage indicates a need for replacement.
- **Performance Check:** Pay attention to changes in your vehicle's ride quality, such as excessive bouncing, nose-diving during braking, or increased body roll. These can be indicators of worn shock absorbers.
- **Cleaning:** Keep the shock absorber body and rod clean from excessive dirt and debris, which can prematurely wear seals.
- **Replacement Interval:** Shock absorbers are wear items. While there's no universal replacement interval, many manufacturers recommend inspection every 50,000 miles and replacement as needed, or every 80,000-100,000 miles as a preventative measure. Consult your vehicle's service manual for specific recommendations.

8. TROUBLESHOOTING

If you experience any of the following symptoms, your shock absorbers may require inspection or replacement:

- **Excessive Bouncing:** The vehicle continues to bounce after hitting a bump, rather than quickly settling.
- **Poor Handling:** Reduced control during turns, excessive body roll, or a general feeling of instability.
- **Fluid Leaks:** Visible oil or fluid leaking from the shock absorber body.
- **Uneven Tire Wear:** Scalloped or cupped wear patterns on tires can indicate worn suspension components.
- **Nose Dive/Squat:** Excessive front-end dive during braking or rear-end squat during acceleration.
- **Noise:** Clunking or rattling sounds coming from the suspension, especially over bumps.

If you observe any of these signs, have your vehicle inspected by a qualified technician immediately. Continuing to drive with worn shock absorbers can compromise safety and lead to further damage to other suspension components.

9. WARRANTY AND SUPPORT

Bilstein products are manufactured to high standards and typically come with a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, conditions, and duration, please refer to the documentation provided with your product or visit the official Bilstein website.

For technical assistance, installation questions, or warranty claims, please contact Bilstein customer support directly. Contact information can usually be found on the product packaging or the manufacturer's official website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question