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Bilstein 22-112811

Bilstein B4 Suspension Strut Assembly User Manual

Model: 22-112811

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Bilstein B4 Suspension Strut Assembly, model 22-112811. Please read this manual thoroughly before attempting any installation or maintenance procedures to ensure safety and optimal performance.

The Bilstein B4 Suspension Strut Assembly is designed as a direct OEM replacement, restoring original ride quality and performance. It is a high-quality automotive replacement strut.

PRODUCT OVERVIEW



Figure 1: The Bilstein B4 Suspension Strut Assembly (Model 22-112811). This image shows the complete strut assembly, featuring the main body, spring seat, and piston rod with the top mounting nut. The black body indicates its robust construction, and the visible Bilstein logo confirms its authenticity.

The Bilstein B4 Suspension Strut Assembly (Part Number: 22-112811) is an automotive replacement strut designed to meet or exceed original equipment specifications. It is engineered to provide a comfortable ride while maintaining excellent handling characteristics.

- **Product Type:** Automotive Replacement Strut
- **Package Weight:** 4.15 Kilograms (approximately 9.13 pounds)
- **Package Dimensions:** 17.78 L x 68.58 H x 17.856 W Centimeters (approximately 7 x 27 x 7 inches)
- **Manufacturer:** Bilstein

SAFETY INFORMATION

WARNING:

This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Always wear appropriate personal protective equipment (PPE) when handling and installing this product. Consult a professional mechanic if you are unsure about any installation steps.

- Always use jack stands to support the vehicle when working underneath.
- Ensure the vehicle is on a level surface before beginning work.
- Do not attempt installation without proper tools and mechanical knowledge.
- Refer to your vehicle's service manual for specific torque specifications and procedures.

SETUP AND INSTALLATION

Installation of a suspension strut assembly requires specialized tools and mechanical expertise. It is highly recommended

that installation be performed by a certified automotive technician.

Required Tools:

- Vehicle jack and jack stands
- Wheel chocks
- Socket wrench set
- Torque wrench
- Spring compressor (if applicable for your vehicle's design)
- Penetrating oil
- Safety glasses and gloves

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

1. Park the vehicle on a level surface and engage the parking brake.
2. Loosen the lug nuts on the wheel corresponding to the strut to be replaced.
3. Jack up the vehicle and secure it with jack stands. Remove the wheel.
4. Locate the strut assembly. Depending on the vehicle, you may need to disconnect brake lines, ABS sensors, or sway bar links.
5. Carefully remove the lower mounting bolts connecting the strut to the steering knuckle or control arm.
6. Open the hood (for front struts) or access the trunk/rear interior (for rear struts) to locate the upper strut mounting nuts. Remove these nuts.
7. Carefully remove the old strut assembly from the vehicle.
8. If the new strut assembly does not come pre-assembled with a spring and top mount, you will need to transfer these components from the old strut using a spring compressor. **Exercise extreme caution when using a spring compressor as springs are under high tension.**
9. Install the new Bilstein strut assembly by reversing the removal steps. Ensure all bolts are tightened to the vehicle manufacturer's specified torque settings.
10. Reinstall the wheel and lower the vehicle.
11. After installation, it is highly recommended to have a professional wheel alignment performed to ensure proper vehicle handling and tire wear.

OPERATING CONSIDERATIONS

The Bilstein B4 Suspension Strut Assembly is designed to restore the original ride characteristics of your vehicle. After installation, you should notice a return to the factory-intended comfort and handling.

- **Initial Drive:** Drive cautiously for the first few miles after installation to allow the suspension components to settle.
- **Alignment:** A wheel alignment is crucial after replacing suspension components to prevent uneven tire wear and ensure proper steering.
- **Noise:** Any unusual noises (clunking, squeaking) after installation should be investigated immediately by a qualified technician.

MAINTENANCE

Bilstein B4 Suspension Strut Assemblies are designed for long-term durability and typically require minimal maintenance. However, regular inspection of your vehicle's suspension components is recommended as part of routine vehicle maintenance.

- **Visual Inspection:** Periodically inspect the struts for signs of fluid leaks, bent rods, or damaged dust boots.

- **Mounting Points:** Check all mounting bolts and nuts for tightness during routine service.
- **Tire Wear:** Monitor tire wear patterns. Uneven wear can indicate a suspension issue, including worn struts or misalignment.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
Excessive Bouncing or "Floating" Ride	Worn or defective strut.	Inspect strut for leaks or damage. Replace if necessary.
Clunking or Rattling Noises	Loose mounting bolts, worn strut mount, or damaged internal components.	Check all mounting bolts for tightness. Inspect strut mount for wear. Consult a technician.
Uneven Tire Wear	Misalignment after installation, or worn suspension components.	Perform a wheel alignment. Inspect other suspension components.
Vehicle Pulling to One Side	Misalignment, or uneven strut performance.	Perform a wheel alignment. Inspect both struts for proper function.

If you experience any of these symptoms, it is recommended to have your vehicle inspected by a qualified automotive technician.

SPECIFICATIONS

- **Model Number:** 22-112811
- **Brand:** Bilstein
- **Product Type:** Automotive Replacement Strut
- **Item Weight:** 9.13 pounds (4.15 kg)
- **Product Dimensions:** 27 x 6 x 6.1 inches (68.58 x 15.24 x 15.49 cm)
- **Manufacturer Part Number:** 22-112811
- **ASIN:** B00I03IMQ8
- **First Available Date:** January 23, 2014

WARRANTY AND SUPPORT

For specific warranty information regarding your Bilstein B4 Suspension Strut Assembly, please refer to the warranty documentation included with your purchase or visit the official Bilstein website. Warranty terms and conditions may vary. For technical support or further assistance, please contact Bilstein customer service or your authorized Bilstein dealer.

Bilstein Official Website: www.bilstein.com