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Bilstein 53-317308

Bilstein 53-317308 BIL B12 Series Suspension Kits User Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Bilstein 53-317308 BIL B12 Series Suspension Kits. Designed for optimal vehicle performance and ride height adjustment, these kits combine advanced suspension dynamics with Bilstein's renowned quality. Please read this manual thoroughly before proceeding with any installation or use.

SAFETY INFORMATION

Automotive suspension work requires specialized tools and knowledge. Improper installation can lead to serious injury or vehicle damage. It is highly recommended that installation be performed by a qualified professional.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath it.
- Never work on a vehicle supported only by a jack.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Keep children and pets away from the work area.



WARNING: This product may contain chemicals known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov.

PRODUCT OVERVIEW

The Bilstein B12 Series Suspension Kits are engineered to enhance your vehicle's handling and appearance by providing a precise reduction in ride height. These kits typically include performance-tuned springs and matching shock absorbers (though this specific product appears to be springs only based on images and description). The components are designed to work in harmony to deliver improved road holding and a sportier feel.



Figure 1: Bilstein B12 Series Suspension Springs (Model 53-317308)



Figure 2: Close-up view of a single Bilstein B12 Series Suspension Spring, showing part number.

SETUP AND INSTALLATION

The installation of the Bilstein B12 Series Suspension Kits involves replacing the vehicle's original springs and potentially shock absorbers. Due to the complexity and safety implications, professional installation is strongly recommended.

General Installation Steps (Consult a professional or vehicle-specific manual for detailed instructions):

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen the lug nuts on the wheels to be removed.
2. **Lifting the Vehicle:** Safely lift the vehicle using a hydraulic jack and secure it on jack stands. Remove the wheels.
3. **Disassembly:** Carefully disassemble the existing suspension components, including the original springs and shock absorbers. This often requires spring compressors, which can be dangerous if not used correctly.
4. **Component Installation:** Install the new Bilstein B12 Series springs and any accompanying shock absorbers. Ensure all components are correctly oriented and seated.
5. **Reassembly:** Reassemble the suspension components, ensuring all bolts are tightened to the manufacturer's specified torque settings.
6. **Lowering the Vehicle:** Carefully lower the vehicle, remove the jack stands, and tighten the lug nuts to the specified torque.

- 7. Post-Installation:** It is crucial to have a professional wheel alignment performed after suspension component replacement to ensure proper vehicle handling and tire wear.

Note: Specific procedures vary significantly by vehicle make and model. Always refer to the vehicle manufacturer's service manual for precise instructions.

OPERATING PRINCIPLES

The Bilstein B12 Series Suspension Kits are designed to provide a sportier driving experience. The springs are engineered to offer a firmer ride and reduced body roll, while the matched shock absorbers (if included in the kit) control spring oscillations for improved stability and handling. The altered ride height contributes to a lower center of gravity, enhancing cornering performance.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your Bilstein suspension components.

- Regular Inspection:** Periodically inspect the springs and shock absorbers for signs of damage, corrosion, or leaks. Check for loose bolts or worn bushings.
- Cleaning:** Keep suspension components clean from dirt, salt, and road debris. Use mild soap and water, avoiding harsh chemicals.
- Alignment Checks:** Have your wheel alignment checked annually or after any significant impact to ensure proper suspension geometry.
- Professional Service:** If you notice any unusual noises, changes in ride quality, or visible damage, consult a qualified automotive technician immediately.

TROUBLESHOOTING

This section addresses common issues that may arise with suspension systems. For complex problems, professional diagnosis is recommended.

Symptom	Possible Cause	Solution
Excessive Bouncing/Poor Ride Control	Worn shock absorbers (if applicable), incorrect spring rate for vehicle.	Inspect shock absorbers for leaks or damage. Verify correct kit application.
Unusual Noises (clunking, squeaking)	Loose fasteners, worn bushings, component interference.	Check all mounting points for tightness. Inspect bushings for wear.
Uneven Ride Height	Improper installation, damaged spring, vehicle load.	Re-check installation. Inspect springs for damage. Ensure even vehicle loading.

SPECIFICATIONS

Key specifications for the Bilstein 53-317308 BIL B12 Series Suspension Kits:

- Brand:** Bilstein
- Model Number:** 53-317308
- Item Weight:** 55.6 pounds
- Manufacturer:** Bilstein

- **Product Type:** Suspension Kits (Springs)
- **Purpose:** Alter vehicle ride height for optimum performance, improved suspension dynamics, quality, and aesthetics.



Figure 3: Bilstein Brand Logo

WARRANTY INFORMATION

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 applicable to your 53-317308 BIL B12 Series Suspension Kits, please refer to the official Bilstein website or contact their customer service directly. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty inquiries regarding your Bilstein 53-317308 BIL B12 Series Suspension Kits, please contact Bilstein customer support through their official website or authorized distributors. Provide your product model number and purchase details when seeking support.

