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## Bilstein 24-131506

# Bilstein 24-131506 Monotube Shock Absorber User Manual

Model: 24-131506 | Brand: Bilstein

## INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Bilstein 24-131506 Monotube Shock Absorber. Designed for front vehicle applications, this 36mm yellow shock absorber is engineered to deliver enhanced performance and ride quality. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

**WARNING:** Improper installation or use of this product can lead to serious injury or vehicle damage. Always follow vehicle manufacturer's specifications and use appropriate safety equipment.

- Professional installation is highly recommended.
- Wear appropriate personal protective equipment (PPE) including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath.
- Do not modify the shock absorber.
- Keep hands and tools clear of moving parts during installation.

## PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Bilstein 24-131506 Monotube Shock Absorber (Front, 36mm, Yellow)
- Necessary mounting hardware (bolts, nuts, washers, bushings)



Image: Bilstein 24-131506 Monotube Shock Absorber. This image displays the main shock absorber unit, which is yellow and features the Bilstein branding.



Image: Shock Absorber Mounting Hardware. This image shows the various bolts, nuts, washers, and rubber bushings included for installation of the shock absorber.

## SETUP AND INSTALLATION

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Installation of the Bilstein 24-131506 shock absorber requires mechanical knowledge and specialized tools. Refer to your vehicle's service manual for specific torque specifications and procedures.

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Loosen lug nuts on the wheels to be removed.
2. **Lift Vehicle:** Safely lift the vehicle using a hydraulic jack and support it with sturdy jack stands. Ensure the vehicle is stable before proceeding.
3. **Remove Wheel:** Remove the wheel(s) to gain access to the suspension components.
4. **Disconnect Old Shock:** Locate the existing front shock absorber. Carefully remove the upper and lower mounting bolts/nuts. You may need to compress the suspension slightly to relieve tension.
5. **Remove Old Shock:** Once disconnected, remove the old shock absorber from the vehicle.

6. **Install New Shock:** Position the new Bilstein 24-131506 shock absorber. Install the upper and lower mounting hardware, ensuring all bushings and washers are correctly oriented. Do not fully tighten bolts at this stage.
7. **Torque Fasteners:** With the vehicle's weight on the suspension (or at ride height), tighten all mounting bolts to the vehicle manufacturer's specified torque values. This is critical for proper function and longevity.
8. **Reinstall Wheel:** Reinstall the wheel(s) and hand-tighten lug nuts.
9. **Lower Vehicle:** Carefully lower the vehicle to the ground.
10. **Final Torque:** Torque the lug nuts to the vehicle manufacturer's specifications.
11. **Alignment Check:** It is recommended to have a professional wheel alignment performed after shock absorber replacement.

## OPERATION

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The Bilstein 24-131506 Monotube Shock Absorber is a passive component designed to dampen suspension oscillations. Once correctly installed, it operates continuously to control spring movement, improve tire contact with the road, and enhance vehicle stability and comfort. No user interaction is required for its operation.

## MAINTENANCE

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Bilstein shock absorbers are designed for long-term, maintenance-free operation. However, periodic inspection is recommended:

- **Visual Inspection:** During routine vehicle maintenance, visually inspect the shock absorbers for signs of fluid leaks, bent rods, damaged bushings, or corrosion.
- **Mounting Hardware:** Check that all mounting bolts and nuts remain tight and secure.
- **Performance Check:** If you notice a degradation in ride quality, excessive bouncing, or unusual noises from the suspension, have the shock absorbers inspected by a qualified technician.

## TROUBLESHOOTING

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Symptom	Possible Cause	Solution
Excessive Bouncing / Poor Ride Quality	Worn or damaged shock absorber.	Inspect for leaks or damage; replace if necessary.
Clunking/Rattling Noise from Suspension	Loose mounting hardware; worn bushings.	Check and tighten all mounting bolts; inspect and replace worn bushings.
Fluid Leak on Shock Body	Internal seal failure.	Shock absorber requires replacement.

## SPECIFICATIONS

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- **Model:** Bilstein 24-131506
- **Type:** Monotube Shock Absorber
- **Position:** Front
- **Piston Diameter:** 36mm
- **Color:** Yellow

- **Style:** Performance
- **Material:** Plastic (Note: This might refer to a component, not the entire shock body which is metal)
- **Item Weight:** 1 Kilogram (approx. 2.2 lbs)
- **Item Dimensions (LxWxH):** 2.95 x 22.45 x 2.95 inches
- **Extended Length:** 13.48 Inches
- **Part Number:** 24-131506
- **UPC:** 651860565538

## WARRANTY INFORMATION

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This product comes with a manufacturer's warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty documentation included with your purchase or visit the official Bilstein website. Keep your proof of purchase for warranty claims.

## SUPPORT AND CONTACT

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For technical assistance, installation questions, or warranty inquiries, please contact Bilstein customer support:

- **Website:** [www.bilstein.com](http://www.bilstein.com) (Please check the official website for current contact details)
- Refer to the packaging or official website for phone numbers or email contacts.