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› [Bilstein](#) /

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Bilstein 24-020930 Shock Absorber User Manual

Model: 24-020930 | Brand: Bilstein

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Bilstein 24-020930 Shock Absorber. Designed for automotive applications, this high-quality shock absorber is engineered to enhance vehicle handling and ride comfort. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

SAFETY INFORMATION

Always prioritize safety when working with automotive components. Improper installation or handling can lead to serious injury or vehicle damage.

- Ensure the vehicle is securely supported on jack stands before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not attempt installation if you are unfamiliar with automotive suspension systems. Consult a qualified mechanic.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Keep hands and tools clear of pinch points and moving parts.

PRODUCT OVERVIEW

The Bilstein 24-020930 is a high-performance shock absorber designed for the rear position of compatible vehicles. It features a durable iron construction and a distinctive yellow finish, characteristic of Bilstein's quality automotive components.



Figure 1: Main view of the Bilstein 24-020930 Shock Absorber, showcasing its yellow body and blue dust boot.

Key Features:

- **Product Type:** SHOCK ABSORBER
- **Item Package Quantity:** 1
- **Item Package Weight:** Approximately 4.95 Pounds
- **Item Package Dimension:** 26.49L x 2.99W x 2.89H inches
- **Material:** Iron
- **Color:** Yellow
- **Auto Part Position:** Rear

SETUP AND INSTALLATION

Installation of shock absorbers requires mechanical aptitude and specific tools. If you are unsure, seek professional assistance.

Required Tools and Materials:

- Vehicle jack and jack stands
- Wheel chocks
- Socket wrench set
- Torque wrench
- Penetrating oil (optional)
- Wire brush (optional)

General Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level, firm surface. Engage the parking brake and place wheel chocks on the wheels that will remain on the ground.
2. **Lift and Secure:** Using a jack, lift the vehicle at the appropriate jacking points until the wheel is off the ground. Place jack stands securely under the vehicle frame or designated support points. Lower the vehicle onto the jack stands.
3. **Remove Wheel (if necessary):** For easier access, remove the wheel corresponding to the shock absorber being replaced.
4. **Locate and Loosen Fasteners:** Identify the upper and lower mounting points of the existing shock absorber. Apply penetrating oil if fasteners are rusted. Carefully loosen and remove the nuts and bolts securing the old shock.
5. **Remove Old Shock:** Once fasteners are removed, carefully extract the old shock absorber from its mounting points.
6. **Install New Shock:** Position the new Bilstein 24-020930 shock absorber into its mounting locations. Ensure proper orientation. Insert the mounting bolts and hand-tighten the nuts.
7. **Torque Fasteners:** Refer to your vehicle's service manual for the correct torque specifications for the shock absorber mounting bolts. Use a torque wrench to tighten all fasteners to the specified values.
8. **Reassemble and Lower:** Reinstall the wheel (if removed). Lift the vehicle off the jack stands with the jack, then remove the jack stands. Slowly lower the vehicle to the ground.
9. **Final Check:** After installation, bounce the vehicle a few times to settle the suspension. Visually inspect all connections to ensure they are secure.

Note: Specific vehicle models may have variations in installation procedures. Always consult your vehicle's repair manual for precise instructions.

OPERATING PRINCIPLES

The Bilstein 24-020930 shock absorber is a critical component of your vehicle's suspension system. Its primary function is to dampen the oscillations of the springs, preventing excessive bouncing and maintaining tire contact with the road surface. This is achieved through hydraulic fluid resistance within the shock absorber's cylinder.

When the vehicle encounters bumps or dips, the suspension springs compress and rebound. The shock absorber controls this motion by converting kinetic energy into heat, which is then dissipated. This controlled damping action contributes to improved ride comfort, stability, and handling, especially during cornering and braking.

MAINTENANCE

Bilstein shock absorbers are designed for durability and typically require minimal maintenance. However, regular inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Periodically inspect the shock absorbers for signs of leaks (oil residue), bent rods, damaged bushings, or corrosion. Any visible damage warrants further investigation and potential replacement.
- **Mounting Points:** Check the upper and lower mounting bolts and nuts for tightness. Loose fasteners can lead to noise and premature wear.
- **Dust Boots:** Ensure the dust boot (if present) is intact and not torn, as it protects the shock rod from dirt and debris.
- **Performance Check:** If you notice a significant change in ride quality, excessive bouncing, or poor handling, it may indicate worn shock absorbers.

Note: Shock absorbers are wear items and their lifespan can vary depending on driving conditions and vehicle usage.

TROUBLESHOOTING

If you experience issues with your vehicle's suspension after installing or while using the Bilstein 24-020930 shock absorber, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Excessive Bouncing / Poor Ride Quality	Worn or damaged shock absorber, incorrect installation.	Inspect shock for leaks or damage. Ensure proper installation and torque. Replace if worn.
Clunking or Rattling Noise	Loose mounting bolts, worn bushings, damaged shock.	Check and re-torque all mounting bolts. Inspect bushings for wear and replace if necessary. Inspect shock for damage.
Uneven Tire Wear	Worn suspension components, including shocks.	Have a professional inspect the entire suspension system and perform a wheel alignment.
Vehicle Pulling to One Side	Damaged or faulty shock absorber on one side.	Inspect both shocks for damage or leaks. Replace as a pair if one is faulty.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

SPECIFICATIONS

Attribute	Detail
Brand	Bilstein
Model Name	Bilstein 24-020930 Shock, Yellow
Part Number	24-020930
OEM Part Number	24020930
UPC	651860417967
Auto Part Position	Rear
Color	Yellow
Material	Iron
Item Weight	4.6 Pounds
Package Weight	5 Pounds
Item Package Dimensions (L x W x H)	26.5 x 3 x 2.9 inches
Extended Length	12 Inches
Vehicle Service Type	Car
Automotive Fit Type	Vehicle Specific Fit

WARRANTY INFORMATION

Bilstein products are manufactured to high standards and typically come with a manufacturer's warranty. For specific details regarding the warranty period, coverage, and claims process for your Bilstein 24-020930 Shock Absorber, please

refer to the official Bilstein website or contact Bilstein customer support directly. Keep your proof of purchase for warranty purposes.

CUSTOMER SUPPORT

For technical assistance, installation questions, or any other inquiries regarding your Bilstein 24-020930 Shock Absorber, please contact Bilstein customer support. You can typically find contact information on the official Bilstein website or through your product retailer.

Always provide your product model number (24-020930) and any relevant purchase details when seeking support.

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This manual is for informational purposes only. Bilstein is not responsible for any damage or injury resulting from improper installation or use of this product.