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## Bilstein 19-128146

# Bilstein 19-128146 Shock Absorber

Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your Bilstein 19-128146 Shock Absorber. This product is designed to enhance vehicle suspension performance and ride quality. Please read this manual thoroughly before proceeding with installation or use.

## 2. SAFETY INFORMATION

**WARNING: Improper installation or use of this product can lead to serious injury or vehicle damage. Professional installation is highly recommended.**

- Always wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Do not modify the shock absorber. Any modifications will void the warranty and may compromise safety.
- Keep hands and clothing clear of moving parts.

## 3. PACKAGE CONTENTS

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

- 1x Bilstein 19-128146 Shock Absorber
- Necessary mounting hardware (e.g., nuts, bolts, washers, bushings)



19-128146

Image 3.1: Bilstein 19-128146 Shock Absorber with included mounting hardware. This image displays the shock absorber along with various nuts, bolts, and washers required for installation.

#### 4. SPECIFICATIONS

Feature	Detail
Model Number	19-128146
Brand	Bilstein
Auto Part Position	Front
Vehicle Service Type	Car
Material	Metal
OEM Part Number	5014175AA
Manufacturer	ThyssenKrupp Bilstein Tuning GmbH
Item Weight	3.26 ounces
Product Dimensions	35.43 x 269.69 x 35.43 inches (Note: These dimensions may refer to packaging or require verification.)



Image 4.1: The Bilstein 19-128146 Shock Absorber. This image shows the complete shock absorber unit, highlighting its design and construction.

## 5. COMPATIBILITY

The Bilstein 19-128146 Shock Absorber is designed for specific vehicle applications. This model is compatible with:

- **Vehicle:** Jeep Grand Cherokee
- **Position:** Front Axle
- **Series:** B4

Always verify compatibility with your specific vehicle's year, make, model, and trim level before purchase and installation. Consult a qualified automotive professional if unsure.

## 6. INSTALLATION

**WARNING: Installation should only be performed by a qualified automotive technician. Incorrect installation can lead to severe vehicle damage or personal injury.**

1. **Prepare Vehicle:** Park the vehicle on a level surface. Engage the parking brake. Loosen the lug nuts on the front wheels.
2. **Lift and Secure:** Safely lift the front of the vehicle using a hydraulic jack and secure it with appropriate jack stands. Remove the front wheels.

3. **Access Shock Absorber:** Locate the existing front shock absorber. Depending on the vehicle model, this may require removing other suspension components or fender liners.
4. **Remove Old Shock:** Carefully unbolt the upper and lower mounting points of the old shock absorber. Be aware that the suspension may be under tension; use appropriate spring compressors if necessary for strut-type assemblies (though this is a shock absorber, not a full strut).
5. **Install New Shock:** Position the Bilstein 19-128146 Shock Absorber into place. Secure the upper and lower mounting points with the provided hardware. Do not fully tighten bolts until the vehicle is at ride height or as specified by the vehicle manufacturer.
6. **Torque Bolts:** Once the vehicle is at ride height (or as per vehicle service manual instructions), tighten all mounting bolts to the manufacturer's specified torque values.
7. **Reassemble:** Reinstall any removed components, including wheels. Lower the vehicle safely.
8. **Final Check:** Perform a final inspection to ensure all bolts are tightened and components are correctly installed. Test drive the vehicle in a safe area to confirm proper operation.

For detailed, vehicle-specific instructions, always consult your vehicle's official service manual.

## 7. MAINTENANCE

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

- **Visual Inspection:** Periodically inspect the shock absorbers for signs of leaks, damage, or corrosion. Check the rubber bushings for cracks or excessive wear.
- **Mounting Hardware:** Ensure all mounting bolts remain tight. Re-torque if necessary according to vehicle manufacturer specifications.
- **Cleaning:** Keep the shock absorbers free from excessive dirt and debris. A simple wash with water and mild soap is sufficient.

If any damage or excessive wear is observed, replace the shock absorber immediately.

## 8. TROUBLESHOOTING

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If you experience issues after installing your Bilstein shock absorbers, consider the following common problems and solutions:

- **Excessive Noise (Clunking/Rattling):**
  - Check all mounting bolts for proper torque.
  - Inspect bushings for proper seating and damage.
  - Ensure no components are contacting other parts of the suspension or chassis.
- **Poor Ride Quality (Too Stiff/Too Soft):**
  - Verify that the correct shock absorber model was installed for your specific vehicle and application.
  - Ensure no other suspension components are worn or damaged (e.g., springs, control arm bushings).
- **Leaking Fluid:**
  - A small amount of oil residue is normal, but significant fluid leakage indicates a seal failure. The shock absorber should be replaced.

If troubleshooting steps do not resolve the issue, contact Bilstein customer support or a qualified automotive technician.

## 9. WARRANTY INFORMATION

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Bilstein products are manufactured to high-quality standards and typically come with a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by product and region.

For detailed warranty information, including coverage, limitations, and how to file a claim, please refer to the official Bilstein website or contact Bilstein customer service directly. Keep your proof of purchase for warranty purposes.

## 10. SUPPORT

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For technical assistance, product inquiries, or warranty claims, please contact Bilstein through their official channels:

- **Website:** Visit the official Bilstein website for FAQs, product catalogs, and contact forms.
- **Customer Service:** Refer to the 'Contact Us' section on the Bilstein website for phone numbers or email addresses specific to your region.

When contacting support, please have your product model number (19-128146) and proof of purchase readily available.