Bilstein 24-026758

Bilstein 24-026758 B6 4600 Series Rear Shock Absorber Instruction Manual

For 1995-2004 Toyota Tacoma Pick Up with Standard Chassis

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Bilstein 24-026758 B6 4600 Series Rear Shock Absorber. Designed for specific vehicle applications, this shock absorber is engineered to enhance vehicle control and ride quality. Please read this manual thoroughly before proceeding with installation or use to ensure proper function and safety.

2. Safety Information

Always prioritize safety when working on your vehicle. Failure to follow safety guidelines can result in serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery before working on electrical components, if applicable.
- Use the correct tools for each step and ensure they are in good working condition.
- Refer to your vehicle's service manual for specific torque specifications and additional safety procedures.
- If you are unsure about any step, consult a qualified automotive technician.

3. Vehicle Compatibility

The Bilstein 24-026758 B6 4600 Series Rear Shock Absorber is compatible with the following vehicle:

- **Make:** Toyota
- **Model:** Tacoma Pick Up
- **Years:** 1995-2004
- **Chassis:** Standard Chassis

This shock absorber is designed for the rear auto part position.

4. Product Features

The Bilstein B6 4600 Series Shock Absorber incorporates advanced technology for superior performance and durability:

- **Monotube Design:** Utilizes a single-tube construction for consistent, fade-free performance under various driving conditions. This design allows for more efficient heat dissipation and prevents aeration of the oil.
- **Gas-Pressure Technology:** High-pressure gas technology provides high traction and precise handling, contributing to enhanced safety and performance without requiring additional spring changes.
- **Enhanced Durability:** Built with robust materials and construction to withstand demanding use, offering a longer service life, especially when carrying loads or towing.
- **Optimized Control:** Engineered to provide optimum grip and enhanced lane stability in both everyday driving and challenging situations.
- **Improved Handling:** Delivers more precise handling characteristics, contributing to a more controlled and comfortable driving experience.

Figure 1: Bilstein 24-026758 B6 4600 Series Rear Shock Absorber. This image displays the yellow and blue monotube shock absorber, highlighting its robust construction and distinctive branding.

5. Installation Instructions

This section outlines the general steps for replacing the rear shock absorbers. It is highly recommended to consult your vehicle's specific service manual for detailed procedures and diagrams. Always replace shock absorbers in pairs to maintain balanced suspension performance.

5.1. Tools and Materials Required

- Safety glasses and gloves
- Vehicle jack and jack stands
- Wheel chocks
- Socket wrench set (including 14mm socket)
- Impact wrench (optional, for stubborn bolts)
- Pry bar
- Wire brush
- Rubber-friendly grease or silicone paste
- Torque wrench

5.2. Removal of Old Shock Absorber

1. Park the vehicle on a level surface, engage the parking brake, and chock the front wheels.
2. Loosen the rear wheel lug nuts, then raise the rear of the vehicle using a jack and secure it with jack stands. Remove the rear wheels.
3. Support the rear axle with a jack to relieve tension on the shock absorber.
4. Locate the upper mounting bolt of the shock absorber. Use a 14mm socket to remove this bolt.
5. Locate the lower mounting bolt of the shock absorber. Use the appropriate socket to remove this bolt.
6. Once both bolts are removed, the old shock absorber can be carefully removed from its mounting points. A pry bar may be needed to dislodge stubborn bushings or washers.
7. Inspect the mounting points for rust or damage. Clean any rust with a wire brush. If significant corrosion is present, address it before installing the new shock.

5.3. Preparation of New Shock Absorber

1. **Activate the Shock:** Before installation, it is crucial to 'start' or 'prime' the new shock absorber. Hold the shock upright and compress it fully by hand. Allow it to extend completely on its own. Repeat this process several times (3-5 cycles). This ensures the internal fluids and gases are properly mixed and the shock functions correctly from the start.
2. Apply a thin layer of rubber-friendly grease or silicone paste to the mounting studs/shafts and the new bushings to aid installation and prevent premature wear.

5.4. Installation of New Shock Absorber

1. Align the new shock absorber with its upper mounting point. If necessary, use a jack to slightly adjust the height of the rear axle to facilitate alignment.
2. Insert the upper mounting bolt and hand-tighten it.
3. Align the lower end of the shock absorber with its mounting point on the axle. Insert the lower mounting bolt and hand-tighten it.
4. **Torque Specifications:**
    - For 2WD models: Torque both upper and lower mounting bolts to **19 ft-lb**.
    - For 4WD models: Torque both upper and lower mounting bolts to **53 ft-lb**.

    Always use a torque wrench to ensure proper tightening. Over-tightening or under-tightening can lead

to component failure or reduced performance.

5. Once both shocks are installed and torqued, remove the jack supporting the axle and lower the vehicle.
6. Reinstall the wheels and torque the lug nuts to the manufacturer's specifications (refer to your vehicle's service manual).

6. Operating Principles

Shock absorbers are critical components of your vehicle's suspension system, designed to dampen spring oscillations and maintain tire-to-road contact. The Bilstein B6 4600 Series uses a monotube, gas-pressure design to provide consistent damping force, preventing excessive body roll, dive, and squat. This results in improved stability, handling, and overall ride comfort.
After installation, you may notice an immediate improvement in your vehicle's ride quality and handling. The shocks will adapt to various road conditions, providing firm control without a harsh ride.

7. Maintenance

Regular inspection and maintenance can help prolong the life of your shock absorbers and ensure continued optimal performance.

- **Visual Inspection:** Periodically inspect the shock absorbers for signs of leaks (oil residue), damage (dents, bends), or worn bushings. Any visible damage or leaks indicate a need for replacement.
- **Mounting Hardware:** Check all mounting bolts and nuts for tightness at recommended service intervals. Re-torque if necessary.
- **Tire Wear:** Uneven tire wear can sometimes indicate worn shock absorbers. Monitor tire wear patterns.
- **Ride Quality:** Pay attention to changes in ride quality, such as excessive bouncing, swaying, or a generally rougher ride, which may signal worn shocks.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Excessive Bouncing/Swaying	Improperly activated shock, loose mounting bolts, incorrect shock for application, or other worn suspension components.	Ensure shock was activated before installation. Check and re-torque mounting bolts. Verify correct part number for your vehicle. Inspect other suspension components.
Clunking/Rattling Noise	Loose mounting bolts, worn bushings, or contact with other vehicle components.	Check and re-torque all mounting bolts. Inspect bushings for damage and replace if necessary. Ensure adequate clearance around the shock absorber.
Harsh Ride	Incorrect shock for application, or other suspension components are stiff.	Verify correct part number. Inspect other suspension components (springs, control arms) for issues.

Problem	Possible Cause	Solution
Oil Leakage	Damaged seal or manufacturing defect.	Contact Bilstein customer support or your retailer for warranty claim or replacement.

9. Product Specifications

Attribute	Detail
Brand	Bilstein
Model Name	Bilstein (24-026758) 46mm Monotube Shock Absorber
Part Number	24-026758
Auto Part Position	Rear
Style	Monotube
Vehicle Service Type	Truck
Extended Length	16.24 Inches
Item Weight	3.6 Pounds
Color	Yellow
Material	Plastic (bushings/components)
UPC	651860624754

10. Warranty

This product is covered by a manufacturer's warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the warranty documentation included with your product or visit the official Bilstein website.

11. Customer Support

For technical assistance, installation questions, or warranty inquiries, please contact Bilstein customer support through their official website or the contact information provided in your product packaging. Always have your product model number (24-026758) and purchase details available when contacting support.