

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Bilstein](#) /
- › [Bilstein 22-236296 Shock Absorber User Manual](#)

Bilstein 22-236296

Bilstein 22-236296 Shock Absorber User Manual

Model: 22-236296 | Brand: Bilstein

INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and understanding of your Bilstein 22-236296 Shock Absorber. This high-performance monotube strut assembly is designed for the front left position of specific Toyota Yaris models (2006-2011). For optimal performance and safety, please read all instructions carefully before proceeding with installation or any related procedures.

SAFETY INFORMATION

Always prioritize safety when working on vehicle suspension components. Improper installation can lead to serious injury or vehicle damage. It is highly recommended that installation be performed by a qualified automotive technician.

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on a lift or jack stands before beginning any work. Never rely solely on a jack.
- Use the correct tools for each step of the installation process.
- Be aware of spring compression and release. Spring compressors should only be used by trained individuals.
- Refer to your vehicle's specific service manual for torque specifications and detailed removal/installation procedures.
- Keep children and pets away from the work area.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package for model 22-236296 should contain:

- 1x Bilstein 22-236296 Shock Absorber (Front Left Monotube Strut Assembly)

If any items are missing or damaged, please contact your retailer or Bilstein customer support immediately.

SETUP AND INSTALLATION

The Bilstein 22-236296 is a direct-fit replacement shock absorber. Installation typically involves removing the original strut assembly and installing the new Bilstein unit. Due to the complexity and safety implications, professional installation is strongly recommended.

General Installation Steps (Consult Vehicle Service Manual for Details):

1. Safely lift and support the vehicle. Remove the wheel.
2. Disconnect any brake lines, ABS sensors, or sway bar links attached to the strut assembly.
3. Unbolt the lower strut mounting bolts from the steering knuckle.
4. Access the upper strut mounts from the engine bay or under the hood. Remove the nuts securing the top of the strut.
5. Carefully remove the old strut assembly from the vehicle.
6. If reusing the original coil spring, use a professional-grade spring compressor to safely remove the spring from the old strut and transfer it to the new Bilstein strut. Ensure the spring is correctly seated.
7. Install the new Bilstein 22-236296 strut assembly into the vehicle, securing the upper mounting nuts first.
8. Reattach the lower strut mounting bolts to the steering knuckle. Torque all bolts to the manufacturer's specifications.
9. Reconnect all disconnected lines, sensors, and links.
10. Reinstall the wheel and lower the vehicle.
11. Perform a wheel alignment after installation to ensure proper vehicle handling and tire wear.



This image displays four Bilstein shock absorbers, model 22-236296. Two of the shocks are equipped with blue corrugated dust boots, while all four feature the distinctive yellow body and Bilstein branding. These components are designed for vehicle suspension systems.

OPERATING

The Bilstein 22-236296 Shock Absorber is a passive component of your vehicle's suspension system. Once installed, it operates continuously to dampen suspension oscillations, control wheel movement, and maintain tire contact with the road surface. There are no user-adjustable settings or operational controls for this component. Its performance is integral to the vehicle's ride comfort, handling, and safety.

MAINTENANCE

Bilstein shock absorbers are designed for durability and long service life with minimal maintenance. However, regular inspection is crucial to ensure continued optimal performance and safety.

- **Visual Inspection:** During routine vehicle maintenance (e.g., oil changes, tire rotations), visually inspect the shock absorbers for signs of wear, damage, or leaks. Look for oil residue on the shock body, bent or damaged shafts, or torn dust boots.
- **Mounting Points:** Check all mounting bolts and nuts for tightness. Loose fasteners can lead to noise or premature wear.
- **Dust Boots:** Ensure dust boots (if present) are intact and properly seated to protect the shock shaft from dirt and debris.
- **Performance Check:** If you notice a degradation in ride quality, excessive bouncing, or unusual noises from the suspension, have the shock absorbers professionally inspected.

No lubrication or internal servicing is required for this sealed unit.

TROUBLESHOOTING

If you experience issues with your vehicle's suspension after installing the Bilstein 22-236296 shock absorber, consider the following common problems and potential causes:

Symptom	Possible Cause	Action
Excessive Bouncing / Poor Ride Control	Worn or defective shock absorber; incorrect spring rate; other suspension component issues.	Inspect shock for leaks/damage. Verify correct part application. Consult a professional.
Clunking / Knocking Noises	Loose mounting bolts; worn bushings; damaged strut mount; contact with other components.	Check all fasteners for proper torque. Inspect bushings and mounts for wear.
Uneven Ride Height	Incorrect spring installation; damaged spring; other suspension component failure.	Verify spring is correctly seated. Check other suspension components.
Steering Pull / Uneven Tire Wear	Improper wheel alignment after installation; bent suspension component.	Ensure a professional wheel alignment was performed. Inspect for bent components.

For persistent issues or complex diagnostics, it is always best to consult a certified automotive technician.

SPECIFICATIONS

Key specifications for the Bilstein 22-236296 Shock Absorber:

- **Manufacturer:** Bilstein
- **Brand:** Bilstein
- **Item Model Number:** 22-236296
- **Manufacturer Part Number:** 22-236296
- **Position:** Front Left
- **Product Dimensions:** 175 x 685 x 175 cm
- **Item Weight:** 2.1 kg
- **ASIN:** B019IPUZV6
- **Date First Available:** October 7, 2016
- **Global Trade Identification Number (GTIN):** 04025258748302

WARRANTY AND SUPPORT

Bilstein products are manufactured to high standards and typically come with a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase.

For detailed warranty information, technical support, or assistance with product-related inquiries, please visit the official Bilstein website or contact their customer service department directly.

Official Bilstein Website: www.bilstein.com