

Manuals+

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

manuals.plus /

› [KYB](#) /

› [KYB 551108 Gas-a-Just Gas Strut Instruction Manual](#)

KYB 551108

KYB 551108 Gas-a-Just Gas Strut Instruction Manual

Model: 551108

INTRODUCTION

The KYB Gas-a-Just monotube shock absorber is engineered to provide enhanced performance and control for your vehicle. Unlike traditional twin-tube designs, the Gas-a-Just features a monotube construction with separate chambers for gas and oil, preventing aeration and ensuring consistent damping performance. This design allows for instant, automatic adjustment to driving conditions, offering superior handling and control without performance fade.

This manual provides essential information regarding the setup, operation, maintenance, and specifications of your KYB 551108 Gas-a-Just Gas Strut. Please read it thoroughly before installation and use to ensure proper function and longevity of the product.

PRODUCT OVERVIEW

The KYB Gas-a-Just strut is a high-performance replacement designed to restore or upgrade your vehicle's suspension system. Its advanced monotube design offers several advantages:

- **Monotube Design:** Outperforms standard twin-tube shock absorbers by preventing oil and gas mixing, eliminating aeration and performance fade.
- **Instant Response:** Features an air-free hydraulic piston and valve area for immediate responsiveness and control.
- **High-Pressure Nitrogen Gas:** Provides a comfortable ride during normal driving and delivers instant performance on demand, accommodating additional weight more effectively.
- **Enhanced Control:** Offers approximately 25% more handling and control capabilities compared to standard twin-tube designs.
- **Seamless Extruded Mount:** Engineered for maximum durability and longevity.
- **Vehicle Specific Calibration:** Specifically calibrated to help restore the original handling and control characteristics, particularly for vehicles like the Lexus GS.





Gas-a-Just®

Instant Response

Includes air-free hydraulic piston and valve area for responsiveness and control. Separated hydraulic and gas chambers means no aeration, no foaming and no delay.

High-pressure Nitrogen Gas

Provides a comfortable ride during normal driving and adds instant performance on demand.

Seamless Extruded Mount

Provides maximum durability and longevity

KYB®
World Class Shocks & Struts

Image: Diagram illustrating the internal components of the KYB Gas-a-Just, highlighting the separate hydraulic fluid and nitrogen gas chambers for instant response and high-pressure performance.

Gas-a-Just®

Delivers additional
handling and control



Adds up to 25%
More Control



Improves Stopping
Distance



For Larger Tires
and Wheels



Monotube
Design



Increases Steering
Response



Increases
Stability

KYB®

Image: Infographic detailing the benefits of KYB Gas-a-Just, including up to 25% more control, improved stopping distance, suitability for larger tires and wheels, monotube design, increased steering response, and enhanced stability.

Your browser does not support the video tag.

Video: An official KYB video explaining the advantages of KYB Gas-a-Just Monotube Shocks & Struts, detailing how their design provides superior performance compared to traditional shock absorbers.

SETUP AND INSTALLATION

Installation of automotive suspension components like the KYB 551108 Gas-a-Just Gas Strut requires specialized tools and knowledge. Incorrect installation can lead to vehicle damage, poor performance, or safety hazards.

Professional Installation Recommended

It is highly recommended that this product be installed by a qualified automotive technician. A professional can ensure:

- Proper vehicle lifting and support.
- Safe handling of spring compression (if applicable).
- Correct torque specifications for all fasteners.

- Alignment checks after installation.

General Installation Steps (for reference only, consult service manual)

1. Safely lift and support the vehicle.
2. Remove the wheel.
3. Disconnect brake lines, ABS sensors, and sway bar links as necessary.
4. Unbolt the lower strut mount from the steering knuckle or control arm.
5. Access and unbolt the upper strut mounts from the vehicle chassis.
6. Carefully remove the old strut assembly.
7. If reusing the coil spring, use a spring compressor to safely transfer it to the new KYB Gas-a-Just strut.
8. Install the new strut assembly, ensuring all bolts are tightened to manufacturer specifications.
9. Reattach all disconnected components.
10. Lower the vehicle and perform a wheel alignment.

Always refer to your vehicle's specific service manual for detailed, model-specific installation instructions.

OPERATING PRINCIPLES

The KYB Gas-a-Just operates on a monotube, high-pressure gas design. This means:

- **Damping:** The hydraulic fluid within the strut provides resistance to vertical motion, controlling spring oscillation and absorbing road impacts.
- **Nitrogen Gas Pressure:** A high-pressure nitrogen gas charge separates the hydraulic fluid from the gas chamber via a floating piston. This prevents cavitation (foaming) of the oil, which can lead to a loss of damping effectiveness (fade).
- **Consistent Performance:** The separation of gas and oil ensures that the strut maintains consistent damping force even under demanding conditions, such as prolonged driving on rough roads or carrying heavy loads.
- **Improved Handling:** The increased damping force and quicker response time contribute to better tire contact with the road, resulting in improved steering response, reduced body roll, and enhanced vehicle stability.

The Gas-a-Just system is designed to provide a firm yet comfortable ride, adapting to varying road conditions and driving styles by delivering additional damping on demand.

MAINTENANCE

KYB Gas-a-Just struts are designed for long-term, maintenance-free operation. However, regular inspection of your vehicle's suspension components is crucial for safety and performance.

Inspection Schedule

- Inspect struts and other suspension components every 12,000 miles or annually, whichever comes first.
- Check for signs of fluid leaks, bent or damaged components, and worn bushings.

What to Look For

- **Fluid Leaks:** Any visible oil leaking from the strut body indicates a seal failure and requires replacement.
- **Physical Damage:** Dents, bends, or corrosion on the strut body or shaft can compromise performance and safety.

- **Worn Bushings:** Cracked, deteriorated, or missing rubber bushings at the mounting points can lead to noise and poor handling.
- **Uneven Tire Wear:** Can be a symptom of worn suspension components.
- **Excessive Bouncing or Sway:** Indicates reduced damping effectiveness.

If any issues are detected, consult a qualified technician for diagnosis and replacement.

TROUBLESHOOTING

If you experience issues with your vehicle's ride or handling after installing KYB Gas-a-Just struts, consider the following common problems and solutions:

Common Issues and Solutions

- **Excessive Bouncing or Poor Ride Quality:**
 - *Check:* Ensure correct strut model for your vehicle. Verify proper installation, including all mounting bolts tightened to specification.
 - *Solution:* Re-check installation. If issues persist, the strut may be defective or incorrect for the application.
- **Clunking or Rattling Noises:**
 - *Check:* Inspect all mounting hardware for tightness. Check for worn or damaged bushings (upper mount, lower mount, sway bar links). Ensure no components are contacting other parts of the vehicle.
 - *Solution:* Tighten loose fasteners. Replace worn bushings or damaged components.
- **Uneven Vehicle Height:**
 - *Check:* Verify that the correct strut was installed on each side of the vehicle. Inspect coil springs for damage or fatigue.
 - *Solution:* Ensure correct part application. Replace damaged coil springs.
- **Vehicle Pulling to One Side:**
 - *Check:* Perform a wheel alignment. Inspect for bent suspension components or uneven tire pressure.
 - *Solution:* Get a professional wheel alignment. Address any other suspension issues.

If troubleshooting steps do not resolve the issue, or if you suspect a product defect, contact KYB customer support or a certified automotive technician.

SPECIFICATIONS

| Feature | Specification |
|--------------|---------------|
| Brand | KYB |
| Model Number | 551108 |

| | |
|---------------------------------|---|
| Design Type | Monotube Gas Strut |
| Material | Aluminum |
| Item Weight | 3.9 ounces |
| Product Dimensions | 12.17 x 6.5 x 5.12 inches |
| Automotive Fit Type | Vehicle Specific Fit |
| OEM Part Numbers (Partial List) | LEXUS 4853030530, LEXUS 4853030560, LEXUS 4853030590, LEXUS 4853030710, LEXUS 4853030721, LEXUS 4853080232, LEXUS 4853080233, LEXUS 4853080341, LEXUS 4853080342, LEXUS 4853080451, LEXUS 4853080453, LEXUS 4853080467, TOYOTA 4853030530, TOYOTA 4853030560, TOYOTA 4853030590, TOYOTA 4853030710, TOYOTA 4853030721, TOYOTA 4853080232, TOYOTA 4853080233, TOYOTA 4853080341, TOYOTA 4853080342, TOYOTA 4853080453, TOYOTA 4853080467 |
| UPC | 826732094625, 781552587613 |

WARRANTY AND SUPPORT

For specific warranty information regarding your KYB 551108 Gas-a-Just Gas Strut, please refer to the documentation included with your purchase or visit the official KYB website. Warranty terms typically cover manufacturing defects and vary by product and region.

Customer Support

If you have questions about installation, product compatibility, or require technical assistance, please contact KYB customer support directly. Contact information can usually be found on the KYB official website or product packaging.

For additional resources and product information, you may visit the [KYB Store on Amazon](#).