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maXpeedingrods AD27

maXpeedingrods Air Suspension Struts Instruction Manual

Model: AD27

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your maXpeedingrods Air Suspension Struts. These aftermarket air shocks are designed to replace original equipment and restore your vehicle's ride height and comfort. Please read this manual thoroughly before installation and use.



Image 1.1: Front view of two maxpeedingrods air suspension struts.

2. COMPATIBILITY

These air suspension struts are compatible with the following Land Rover models:

- Land Rover Discovery 3 (L319): 2004-2009 (LR3)
- Land Rover Discovery 4 (L319): 2009-2016 (LR4)
- Land Rover Range Rover Sport L320: 2005-2013

Important Note: These struts are designed for vehicles **WITHOUT** Active Cornering Enhancement (ACE) and **WITHOUT** Variable Damping System (VDS) sensors. Please verify your vehicle's specifications before installation.

Refer to OEM Part Numbers for Cross-Reference:

- RNB501250, RNB501580, RNB000855, RNB000856, RNB000857, RNB000858

- LR041108, RNB501460, RNB501620, RNB501470, RNB501600, RNB501180
- LR013930, LR014194, LR018398, LR032646, LR016403, LR016414, LR016415, LR016426, LR016427
- LR034282, LR034283, LR034284, RNB501590



Image 2.1: Illustration clarifying non-compatibility with VDS sensor systems.

3. PRODUCT FEATURES

The maXpeedingrods Air Suspension Struts are engineered for performance and durability, offering a direct replacement for your vehicle's original air shocks. Key features include:

- **Direct Replacement:** Designed to fit directly without modifications, restoring original ride height.
- **Quality Construction:** Built to strict ISO 9001:2015 and CE certified quality control standards.
- **Durable Materials:** Constructed from robust, anti-corrosion materials with good heat dissipation properties.
- **Tested Components:** CNC machined components undergo over 3 million cycles of testing and 24-hour air tightness tests (≤ 0.02 MPa).
- **Enhanced Ride Quality:** Provides high compression resistance and sound insulation for improved driving comfort and safety.



Image 3.1: Side view of the air suspension struts, highlighting their robust design.

4. IMPORTANT SAFETY INFORMATION

Working on vehicle suspension systems can be hazardous. Adhere to all safety precautions to prevent injury or damage.

- **Professional Installation Recommended:** Due to the complexity and safety-critical nature of suspension components, professional installation by a qualified mechanic is strongly recommended.
- **Vehicle Support:** Always use appropriate jack stands and safety equipment when working under a vehicle. Never rely solely on a jack.

- **Air System Safety:** Air suspension systems operate under high pressure. Exercise extreme caution when disconnecting air lines or working near air reservoirs.
- **Personal Protective Equipment:** Wear safety glasses, gloves, and other appropriate personal protective equipment.
- **Read Vehicle Manual:** Consult your vehicle's service manual for specific procedures and torque specifications.

5. SETUP AND INSTALLATION

These air suspension struts are designed as a direct replacement for the original air shocks. While specific step-by-step instructions are not included with the product, the general installation process involves:

1. Safely lift and support the vehicle.
2. Depressurize the air suspension system according to the vehicle manufacturer's guidelines.
3. Disconnect the air line and any electrical connections (if applicable, noting these struts are without VDS sensor connections).
4. Remove the old air strut by unbolting its upper and lower mounting points.
5. Install the new maXpeedingrods air strut, ensuring proper alignment of mounting bolts.
6. Reconnect the air line and any electrical connections.
7. Re-pressurize the air suspension system and check for leaks.
8. Lower the vehicle and perform a functional test.

Always refer to a professional service manual for your specific vehicle model for detailed installation procedures and torque specifications.



Image 5.1: Detail of the top mounting plate for installation.

6. OPERATING

Once installed, the maXpeedingrods Air Suspension Struts will function as part of your vehicle's Airmatic suspension system. They are designed to automatically adjust to maintain optimal ride height and provide a comfortable driving experience. No specific user operation is required beyond the normal use of your vehicle's air suspension controls (if equipped).

The struts contribute to:

- Restoring the original vehicle ride height.
- Improving overall ride quality and stability.

7. MAINTENANCE

Proper maintenance helps ensure the longevity and performance of your air suspension struts. While these units are sealed and do not require greasing, regular inspection is recommended.

- **Regular Inspection:** Periodically inspect the air struts for any signs of damage, wear, or air leaks. Look for cracks in the rubber air spring, corrosion on metal components, or unusual noises.
- **Cleanliness:** Keep the suspension area clean from dirt, debris, and road salt, which can accelerate wear.
- **Air System Integrity:** Ensure all air lines and connections are secure and free from damage.



Image 7.1: Detail of the air bladder and housing, critical for air tightness.

8. TROUBLESHOOTING

If you experience issues with your air suspension system after installing these struts, consider the following common troubleshooting steps:

- **Uneven Ride Height:** Check for air leaks in the air lines or the strut itself. Ensure all connections are tight. Verify the air compressor is functioning correctly.
- **Excessive Noise:** Inspect mounting bolts for proper torque. Check for any components rubbing or loose parts.

- **System Malfunction Light:** If a warning light appears, it may indicate an issue with the air suspension system. This could be due to a leak, a faulty sensor (though these struts do not have VDS sensors, other system sensors could be at fault), or the air compressor. A diagnostic scan tool may be required to identify the specific fault code.

For persistent issues, it is recommended to consult a professional mechanic or contact maXpeedingrods customer support.

9. SPECIFICATIONS

Specification	Value
Part Type	Air Suspension Strut
Fitment Type	Direct Replacement
Quantity	1 piece (for front left or right)
Maximum Length	650 mm
Compressed Length	85 mm
Surface Finish	Rust Protected
Greasable/Sealed	Sealed
Adjustable	Yes (via Airmatic system)
Operating Pressure	≤ 290 psi
Temperature Range	≥ -40 °C / ≤ + 70 °C
Item Weight	22.7 Kilograms (for the pair)
Product Dimensions (L x W x H)	71 x 21 x 40 cm
Manufacturer Part Number	AD27

10. WARRANTY

maXpeedingrods provides a **2-year warranty** against any manufacturing defects for these air suspension struts. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service.

11. SUPPORT

For any questions, technical assistance, or support regarding your maXpeedingrods Air Suspension Struts, please contact our customer service team. We are available to help with compatibility checks, installation guidance, and troubleshooting.

Contact information can typically be found on the maXpeedingrods official website or through your purchase platform.

