

## Arnott AS-2121

# Arnott AS-2121 Air Shock

## INSTALLATION AND MAINTENANCE MANUAL

Model: AS-2121

### 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Arnott AS-2121 Air Shock. The Arnott AS-2121 is a completely rebuilt OE Mercedes left front air strut, featuring a Continental ContiTech air spring bladder. This part is specifically designed for Mercedes E-Class sedan vehicles equipped with 4MATIC (model years 2003-2009).

Please read this manual thoroughly before attempting any installation or maintenance procedures. Incorrect installation can lead to product failure, vehicle damage, or personal injury.

### 2. SAFETY INFORMATION

- **Professional Installation Recommended:** Installation of automotive suspension components requires specialized tools and knowledge. It is highly recommended that this product be installed by a certified automotive technician.
- **Vehicle Support:** Always ensure the vehicle is properly supported on a lift or jack stands before beginning any work. Never rely solely on a jack.
- **Personal Protective Equipment:** Wear appropriate safety glasses, gloves, and other personal protective equipment during installation.
- **Air System Pressure:** Air suspension systems operate under high pressure. Exercise extreme caution when working near air lines or components. Depressurize the system according to the vehicle manufacturer's instructions before disconnecting any air lines.
- **Electrical System:** Disconnect the vehicle's battery before working on any electrical components to prevent accidental activation or short circuits.
- **Component Handling:** Handle all components carefully. Do not drop or strike the air shock, as this can cause internal damage.

### 3. PACKAGE CONTENTS

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

- 1x Arnott AS-2121 Air Shock
- Associated installation hardware (e.g., nuts, washers, seals)



*Image: Arnott AS-2121 Air Shocks and included installation hardware.*

## 4. SETUP AND INSTALLATION

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This section outlines the general steps for replacing an air shock. Always refer to the specific service manual for your Mercedes E-Class (2003-2009) with 4MATIC for detailed, vehicle-specific instructions and torque specifications.

### 4.1 Pre-Installation Steps

1. Park the vehicle on a level, hard surface.
2. Engage the parking brake.
3. Disconnect the negative terminal of the vehicle's battery.
4. Raise the vehicle and support it securely with jack stands. Ensure the suspension is fully extended.
5. Depressurize the air suspension system according to the vehicle manufacturer's guidelines. This typically involves using a diagnostic tool or following a specific procedure to release air from the system.
6. Remove the wheel from the corner where the air shock is to be replaced.

### 4.2 Removal of Old Air Shock

1. Locate and disconnect the air line from the top of the old air shock. Be careful not to damage the fitting.
2. Disconnect any electrical connectors attached to the air shock.
3. Remove the upper mounting bolts/nuts securing the air shock to the vehicle chassis.
4. Remove the lower mounting bolts/nuts securing the air shock to the control arm or knuckle.
5. Carefully remove the old air shock from the vehicle. It may be under some residual tension.

### 4.3 Installation of New Arnott AS-2121 Air Shock



*Image: Arnott AS-2121 Air Shock, ready for installation.*

1. Position the new Arnott AS-2121 Air Shock into the vehicle's suspension assembly.
2. Secure the lower mounting bolts/nuts first, but do not fully tighten them yet.
3. Align and secure the upper mounting bolts/nuts.
4. Connect the air line to the new air shock. Ensure a secure, leak-free connection.
5. Reconnect any electrical connectors.
6. *Important:* With the vehicle still on jack stands, reconnect the battery and inflate the air suspension system to the manufacturer's recommended pressure. Check for air leaks using a soapy water solution around all connections.
7. Once the system is pressurized and no leaks are detected, lower the vehicle to the ground.

8. With the vehicle's weight on the suspension, fully tighten all mounting bolts and nuts to the vehicle manufacturer's specified torque values.
9. Perform a final check of all connections and ensure proper ride height.

## 5. OPERATING CONSIDERATIONS

After installation, the air suspension system will automatically adjust to maintain the correct ride height. It is normal for the compressor to activate periodically to maintain system pressure. Pay attention to any unusual noises or changes in vehicle handling.

- Initial Calibration:** Some vehicles may require a diagnostic tool to recalibrate the air suspension system after component replacement. Consult your vehicle's service manual or a qualified technician.
- Load Capacity:** Adhere to the vehicle manufacturer's recommended load capacities. Overloading can strain the air suspension system.

## 6. MAINTENANCE

Regular inspection and maintenance can extend the life of your Arnott AS-2121 Air Shock and the overall air suspension system.

- Visual Inspection:** Periodically inspect the air shock for signs of damage, cracks, or leaks in the air bladder. Check air lines and electrical connections for wear or corrosion.
- Cleaning:** Keep the air shock and surrounding areas free of excessive dirt, debris, and road salt, which can degrade rubber components over time.
- System Checks:** If your vehicle has an air suspension warning light, address it promptly. This may indicate a leak or compressor issue.
- Professional Check-ups:** Have your air suspension system professionally inspected during routine vehicle maintenance.

## 7. TROUBLESHOOTING

If you experience issues with your air suspension, consider the following common problems and potential solutions:

Problem	Possible Cause	Solution
Vehicle sits too low or unevenly	Air leak in the air shock or air line; faulty air compressor; height sensor issue.	Inspect air lines and shock for leaks. Check compressor operation. Consult a technician for sensor diagnosis.
Compressor runs excessively	Small air leak in the system; compressor nearing end of life.	Check for minor leaks. If no leaks, compressor may need replacement.
Rough or bouncy ride	Incorrect air pressure; internal shock failure.	Verify system pressure. If issue persists, shock may need inspection by a professional.

Problem	Possible Cause	Solution
Warning light on dashboard	System fault detected (e.g., leak, sensor error, compressor failure).	Have the vehicle scanned for diagnostic trouble codes (DTCs) by a qualified technician.

For complex issues or if you are unsure about a diagnosis, always consult a certified automotive technician.

## 8. SPECIFICATIONS

- **Model:** AS-2121
- **Part Position:** Front Left
- **Vehicle Service Type:** Car
- **Compatible Vehicles:** Mercedes E-Class Sedan (2003-2009) with 4MATIC
- **OEM Part Number:** 22064872 (LT)
- **Item Weight:** Approximately 13 pounds
- **Product Dimensions:** Approximately 3.25 x 7.75 x 21 inches
- **Manufacturer:** Arnott Air Suspension



Image: Side profile of the Arnott AS-2121 Air Shock.

## 9. WARRANTY AND SUPPORT

Arnott products are designed for durability and performance. For specific warranty details, please refer to the warranty information provided with your purchase or visit the official Arnott website. For technical support or further assistance, please contact Arnott customer service through their official channels.