

Installation Manual

A-2239 ARNOTT FRONT AIR SPRING FOR 1999-2005 AUDI ALLROAD



Congratulations on your purchase of an Arnott® air suspension product. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. Thank you for your confidence in us and our product.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install these components on your vehicle. The removal and installation of air suspension products should only be performed by a fully qualified, ASE Certified, professional.

It is equally important to be aware of all necessary safety measures while installing your new Air Suspension System. This includes proper lifting and immobilizing of the vehicle and isolation of any stored energy to prevent personal injury or property damage.

"Engineered to Ride, Built to Last™"



WARNING: *The air suspension system is under pressure (up to 10 bar, or 150 lbf/in). Verify pressure has been relieved and disconnect power to the air suspension system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard protective hand, ear, and eye protection when servicing the air suspension system.*

KIT CONTAINS:

PARTS LIST

P/N	QTY	DESCRIPTION
21-3371	1	ARNOTT FRONT AIR SPRING
21-6437	1	ACCESSORY KIT

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling **800-251-8993** during normal business hours or email techassistance@arnottinc.com

GENERAL INFORMATION:

Reading this manual signifies your agreement to the terms of the general release, waiver of liability, and hold harmless agreement, the full text of which is available at www.arnottinc.com.

- Not to be stored below 5°F (-15°C) and above 122°F (50°C).
- Avoid damage to air lines and cables.
- Removal and installation is only to be performed by fully qualified personnel.
- Use car manufacturer's diagnostic software.

CAUTION: *Damage to the vehicle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.*



To avoid the possibility of short circuits while working with electric components consult your owner's manual on how to disconnect your battery.



Consult your vehicle owner's manual, service manual, or car dealer for the correct jacking points on your vehicle and for additional care, safety and maintenance instructions. Under no circumstances should any work be completed underneath the vehicle if it is not adequately supported, as serious injuries and death can occur.

AIR STRUT REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. LOOSEN AND REMOVE THE THREE (3) TOP BOLTS UNDER THE HOOD. (FIGURE A)



FIGURE A

3. RAISE THE VEHICLE.
4. REMOVE THE FRONT WHEEL.

5. REMOVE THE PINCH BOLT FROM THE FRONT OF THE CONTROL ARMS. (FIGURE B)

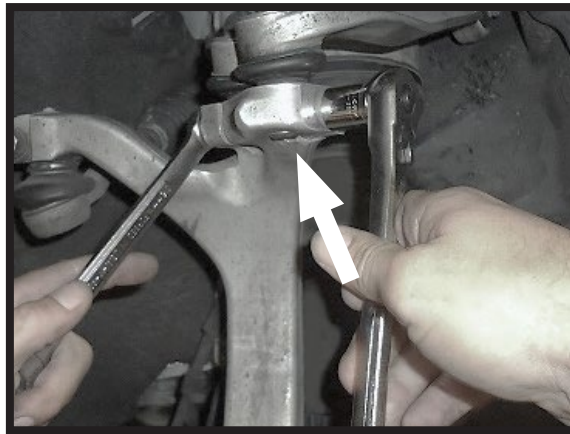


FIGURE B

6. REMOVE BOTH BALL JOINTS FROM THE FRONT SUSPENSION LINK. (FIGURE C)

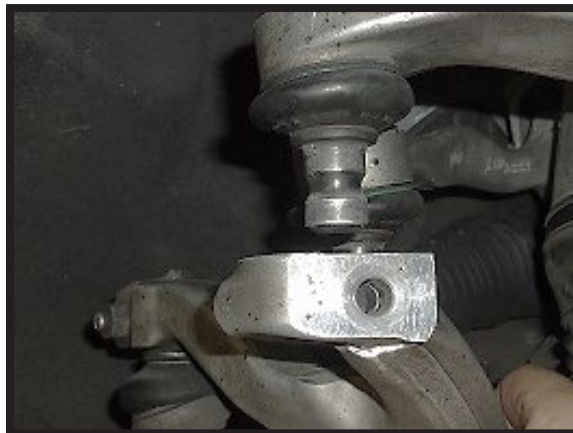


FIGURE C

7. REMOVE THE REMAINING AIR PRESSURE FROM THE FRONT AIR SPRING. TO DEFLATE THE AIR SPRING, CAREFULLY REMOVE THE AIR FITTING FROM THE TOP OF THE AIR SPRING. REMOVE THE AIR LINE FITTING FROM THE AIR LINE AND DISCARD. (FIGURE D)

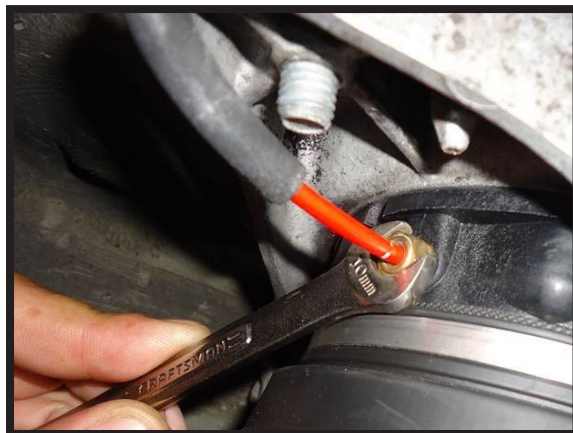


FIGURE D

8. LOOSEN AND REMOVE THE LOWER SHOCK BOLT. (FIGURE E)

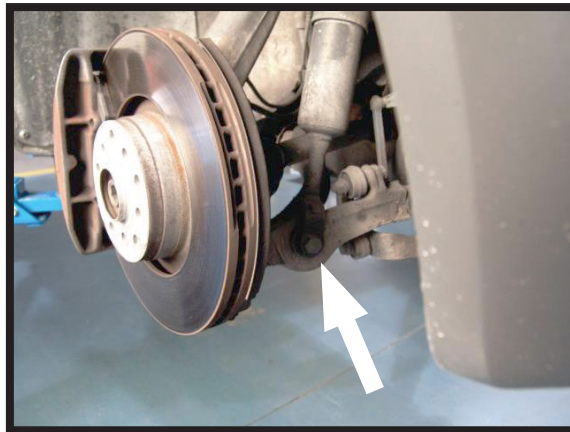


FIGURE E

9. CAREFULLY REMOVE THE SHOCK ASSEMBLY FROM THE VEHICLE. (FIGURE F)



FIGURE F

10. USING A 12 POINT TORX BIT, REMOVE THE 6 UPPER SHOCK MOUNTING BOLTS. REMOVE THE TOP CAST ALUMINUM SHOCK CAP. (FIGURE G)



FIGURE G

11. REMOVE THE CENTER FLANGE NUT FROM THE TOP OF THE SHOCK. (FIGURE H)



FIGURE H

12. REMOVE THE RUBBER UPPER MOUNT AND WASHER. BOTH OF THESE WILL BE REUSED IN THE NEW ASSEMBLY. (FIGURE I)



FIGURE I

13. REMOVE THE OLD AIR SPRING FROM THE SHOCK. YOU MAY HAVE TO TAP DOWN ON THE AIR SPRING PISTON TO DISLODGE IT FROM THE OLD SHOCK. (FIGURE J)



FIGURE J

14. REMOVE AND DISCARD THE OLD O-RING USED TO SEAL THE AIR SPRING TO THE SHOCK. THIS O-RING WILL NOT BE REUSED IN THE NEW ASSEMBLY. (FIGURE K)



FIGURE K

AIR SPRING INSTALLATION



Tighten all nuts and bolts to manufacturer's specifications during the installation process.



Do not remove the air fitting from the air spring. Doing so may cause damage and/or void warranty. Remove the white shipping pin from the new air fitting and insert the air line until fully seated.

1. LUBRICATE THE O-RING IN THE BOTTOM OF THE NEW AIR SPRING ASSEMBLY, AND SLIDE THE NEW AIR SPRING OVER THE SHOCK ABSORBER. (FIGURE L)



FIGURE L

2. REMOVE THE NEW O-RING FROM BAG AND LUBRICATE. INSTALL NEW O-RING INTO THE FACE GROOVE LOCATED ON THE TOP SIDE OF THE AIR SPRING. REPLACE THE TOP WASHER, RUBBER MOUNT AND FLANGE NUT. (FIGURE M)



FIGURE M

3. REPLACE THE CAST ALUMINUM SHOCK CAP AND REPLACE THE SIX 12 POINT TORX BOLTS. (FIGURE N)



FIGURE N

AIR STRUT INSTALLATION



Tighten all nuts and bolts to manufacturer's specifications during the installation process.

1. INSTALLATION IS IN REVERSE ORDER OF AIR STRUT REMOVAL.