



Part# **A-2133**  
2001-2005 Audi allroad  
Rear Air Spring Assembly



*“Engineered to Ride, Built to Last”*

PARTS LIST	PART NUMBER	QUANTITY
REAR AIR SPRING ASSEMBLY	A-2133	1
SEAL KIT	21-4211	1

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Thank you for purchasing an Arnott Air Suspension product! This system provides you with the ability to maintain your vehicle at a constant level, resulting in enhanced vehicle ride, handling, and performance.

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 this system on your vehicle. Reviewing the components and the parts list below will familiarize you with the system.

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



**SAFTEY WARNING:**

Do not inflate the air spring assembly unless it is supported on both ends by the vehicle frame and suspension system, or by another adequate means. Doing so may result in serious injury and damage to the air spring assembly and surrounding environment.

The maximum recommended inflation pressure of the air spring is 100 psi. Over-inflation of the air spring, as well as improper use or installation of the assembly, may result in serious injury and damage to the air spring assembly and the surrounding environment.

Take precautions not to exceed the Gross Vehicle Weight Rating (GVWR, or the maximum load) recommended by the manufacturer. The air springs are rated for a maximum pressure of 100 psi. This pressure may, however, allow too great a load to be carried on most vehicles. For best results, load the vehicle and have it weighed, then compare the vehicle weight with the maximum allowed. It is important that all vehicle's Owner Manual recommendations are followed for your own safety and to prevent damage to the vehicle. Air Springs DO NOT increase the GVWR set by the manufacture.

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← Upper seal cap



← Shock absorber Nut (Reuse)



← New Replacement Air Spring  
21-3501



← Lower O-ring (In Seal Kit)



← Shock Absorber (Reuse)

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#### VEHICLE PREPARATION

1. Before you begin, you should take necessary safety precautions into account when working on your vehicle.
2. First, place your vehicle on a solid, even surface and chock the wheels.
3. Using a floor jack and jack stands, safely lift and secure the vehicle. (Refer to Owner's Manual for proper lifting techniques and jacking points.)
4. Remove the rear wheel(s) to gain access to the suspension components.

#### REMOVAL AND DISASSEMBLY OF STRUT

1. Start by removing the remaining air pressure from the rear air spring. To deflate the air spring, carefully remove the air fitting from the bottom. *See Figures "A, B"*
2. Loosen and remove the upper mounting plate's bolts. *See Figure "C"*
3. Remove the lower shock bolt connecting the shock to the lower control arm. *See Figure "D"*
4. With the shock loose, collapse the shock absorber by pushing downward on the upper plate to allow you to dislocate the upper mount from its mounting perch.
5. With the upper mount dislodged, pull the air shock assembly up and out of the lower control arm. *See Figure "E"*
6. Once the shock is removed from the vehicle, you can now remove the air hose connecting the air spring to the shock. *See Figure "F"*
7. Located at the very top of the assembly is a plastic seal cap that can be removed with an allen wrench. *See Figure "G"*

*NOTE: Depicted is the seal cap removed. See Figure "H"*

8. Below the plastic cap is the nut holding the air spring to the shock. Remove this nut. *See Figure "I"*

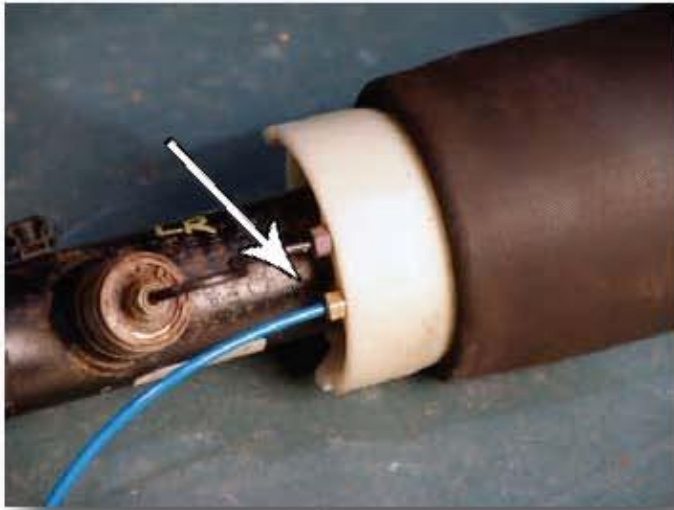
*NOTE: Shown is the nut removed from the shock. See Figure "J"*

9. Remove the old air spring from the shock. You will have to turn the air spring 1/4 turn to disengage it from the o-ring collar and tap down on the piston to dislodge. *See Figure "K"*

*NOTE: Shown is the disassembled air shock. Arrows indicate parts reused on reassembly. See Figure "L"*

#### ASSEMBLY OF STRUT AND REINSTALLATION

1. Clean and dry the reused shock absorber. *See Figure "1"*
2. Replace the existing o-ring with the new one supplied and lubricate. *See Figure "1"*
3. Remove the upper cap from the new spring and install the air spring onto the shock. *See Figure "2,3"*
4. With the reused shock absorber nut, secure the air spring to the shock. *See Figure "4"*
5. It may be necessary to extend the air spring to seal the bottom, squeeze the rubber toward the top to force the bottom piston downward to elongate.
6. Apply a lubricant to the upper seal o-ring, then reinstall the seal cap and tighten. *See Figure "5"*



**Fig. "A"**



**Fig. "B"**



**Fig. "C"**



**Fig. "D"**



**Fig. "E"**



**Fig. "F"**



**Fig. "G"**



**Fig. "H"**



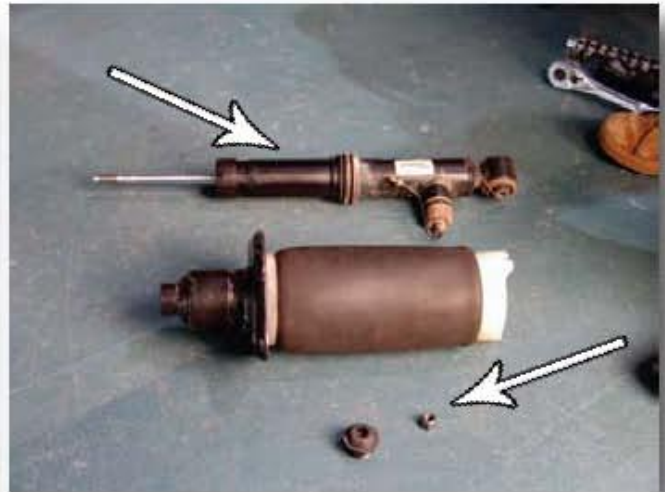
**Fig. "I"**



**Fig. "J"**



**Fig. "K"**



**Fig. "L"**



**Fig. "1"**



**Fig. "2"**



**Fig. "3"**



**Fig. "4"**



**Fig. "5"**