



SK-2256
2001-2006
AUDI ALLROAD
REAR SHOCK REPLACEMENT



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.

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 ride system prior to dis-assembly. 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	
21-4454	1	REAR BILSTEIN SHOCK	
14-3608	1	4MM PLUG FITTING	



General information:

- * *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 shock assembly can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.*

SHOCK REPLACEMENT



The ignition must remain switched off during the shock removal and replacement.

1. SET STEERING TO STRAIGHT AHEAD.



Use lifting platform (hoist) that is capable of raising the body separately from the wheels, lift body at the lifting points prescribed by the vehicle manufacturer. Vehicle slippage can cause danger to life and limb

2. RAISE VEHICLE WITH PROPER LIFTING EQUIPMENT. THE TIRES MUST BE OFF THE GROUND. SUSPENSION MUST BE FULLY DOWN WITH NO LOAD.

REMOVAL OF REAR STRUT AND SUSPENSION DISASSEMBLY

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.
2. LOOSEN AND REMOVE THE UPPER MOUNTING PLATE'S BOLTS.
SEE FIGURE "1"
3. REMOVE THE LOWER SHOCK BOLT CONNECTING THE SHOCK TO THE LOWER CONTROL ARM. **SEE FIGURE "2"**
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 "3"**
6. WITH THE AID OF A LARGE PAIR OF PLIERS, COMPRESS THE PARKING BRAKE LEVER AND REMOVE THE CABLE. **SEE FIGURE "4"**
7. REMOVE THE PARKING BRAKE CABLE RETAINING CLIP, AND SLIDE THE CABLE OUT OF ITS MOUNT. **SEE FIGURE "5"**
8. REMOVE THE BOLT SECURING THE WHEEL SPEED SENSOR ON THE FRONT SIDE OF THE WHEEL HUB. LET THE SENSOR HANG. **SEE FIGURE "6"**
9. LOCATE THE HEIGHT SENSOR BRACKET ON THE BACK LEFT OF THE LOWER CONTROL ARM AND REMOVE ITS MOUNTING NUT FROM THE INSIDE OF THE CONTROL ARM TO FREE THE HEIGHT SENSOR. **SEE FIGURE "7"**
10. NEXT, LOOSEN BUT DO NOT REMOVE THE LOWER CONTROL ARMS REAR MOST BOLTS TO ELIMINATE BINDING DURING INSTALLATION. **SEE FIGURE "8"**
11. USING A PAINT MARKER, MARK THE ECCENTRIC BOLTS ALIGNMENT AT THE KNUCKLE AND REMOVE IT BEING SURE TO TURN THE NUT ON THE BACKSIDE. **SEE FIGURE "9"**
12. AFTER ALL FASTENERS ARE REMOVED, THE LOWER CONTROL ARM SHOULD HANG FREE.

INSTALLATION OF REAR COIL STRUT

1. INSTALL THE REAR COIL STRUT UP FROM THE BOTTOM, MAKING SURE THE LOCATING PINS ARE FACING OUTWARD. INSTALL THE TWO (2) FACTORY UPPER MOUNTING BOLTS AND TIGHTEN. **SEE FIGURE "10"**
2. SWING THE CONTROL ARM UP TO ALIGN THE SHOCK BUSHING TO ITS MOUNTING HOLE. SECURE WITH THE FACTORY HARDWARE.
3. USING THE FLOOR JACK, LIFT DIRECTLY UNDER THE SHOCK MOUNT UNTIL YOU CAN ALIGN THE KNUCKLE BOLT. **SEE FIGURE "11"**

NOTE: BE EXTREMELY CAREFUL NOT TO LIFT THE CAR OFF OF THE JACK STANDS AS THAT WOULD MAKE THE CAR BECOME UNSTABLE.



4. ALIGN THE MARKS PREVIOUSLY MADE ON THE ECCENTRIC BOLT AND TIGHTEN. AT THIS POINT, GO BACK AND TIGHTEN THE REAR MOST BOLTS OF THE LOWER CONTROL ARM.
5. FINISH BY REINSTALLING THE WHEEL SPEED SENSOR, PARKING BRAKE CABLE, AND HEIGHT SENSOR MOUNTING BRACKET.

NOTE: THE AIR HOSE CAN BE DOUBLED BACK ON ITSELF AND CLIPPED INTO THE OPEN CLIPS ALREADY INSTALLED.

NOTE: FIGURE "12" SHOWS COMPLETED INSTALLATION.



FIGURE 1

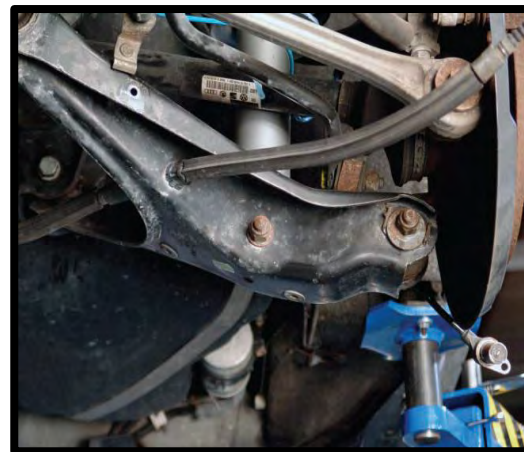


FIGURE 2



FIGURE 3

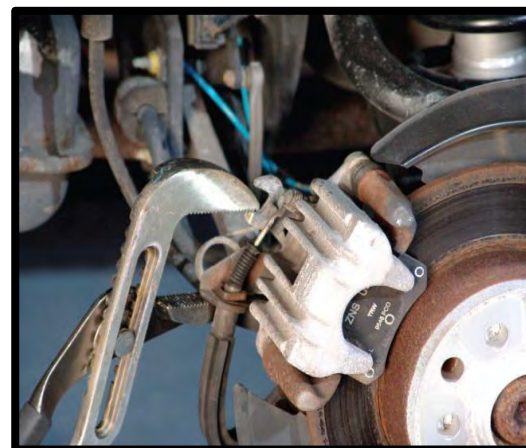


FIGURE 4

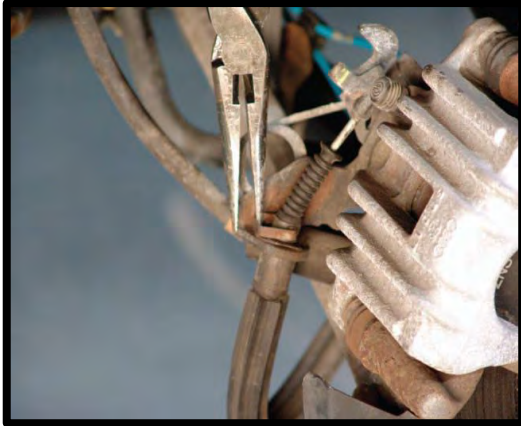


FIGURE 5



FIGURE 6

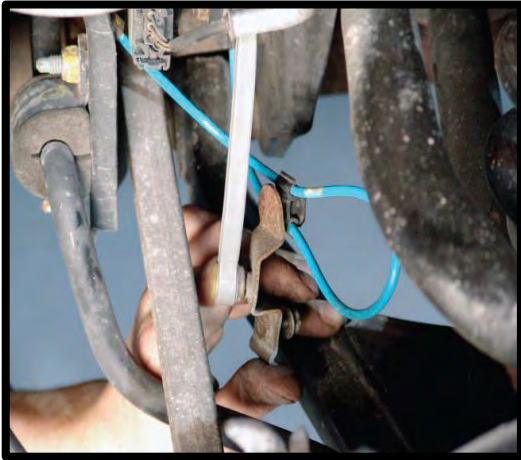


FIGURE 7

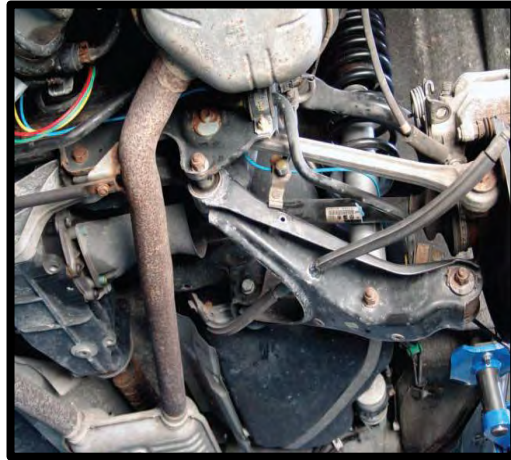


FIGURE 8

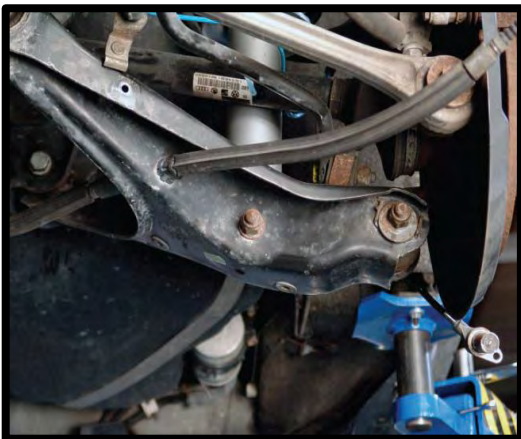


FIGURE 9



FIGURE 10



FIGURE 11



FIGURE 12

6. REGARDLESS OF AIR SPRING USED, THE SUPPLIED PLUG IS NEEDED TO PLUG THE SECOND PORT IN THE AIR SPRINGS PISTON.