



**2006-2010 MERCEDES R CLASS (W 251 CHASSIS)
FRONT AIR SHOCK (AS-2394)**



Congratulations on your selection to purchase an Arnott Air Suspension System. We at Arnott Air Suspension Systems are proud to offer a high quality product at the industries 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 this system on your vehicle.

It is equally important to be aware of all necessary safety measures while installing your new Air Ride 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 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
AS-2394	1	AIR SHOCK ASSEMBLY

Addition hardware needed that is **not** included - 8” Tie Wrap



General information:

- * Shocks 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 full 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.*

FRONT AIR SHOCK REMOVAL:



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

- 1.0 Set steering to straight ahead.
- 2.0 Locate and remove the air compressor fuse (Figure A).

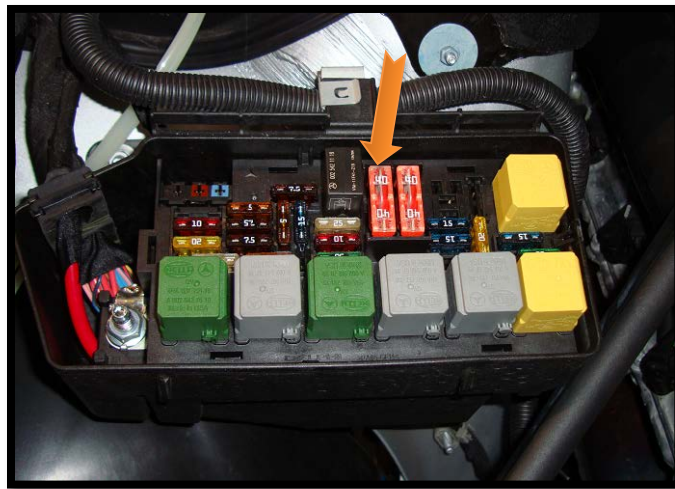


Figure A



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.

- 3.0 Raise vehicle.
- 4.0 Remove front tire.
- 5.0 Disconnect the air shock control cable connector (located in the fender well).



6.0 Disconnect the sway bar arm linkage from the shock (Figure B).

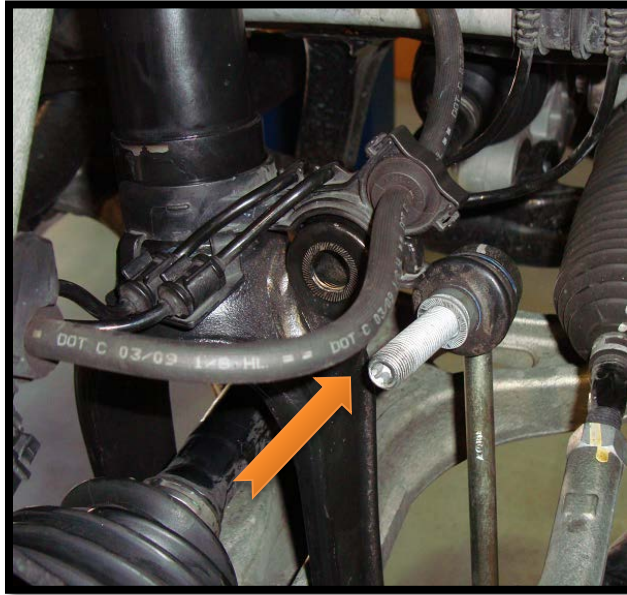


Figure B

7.0 Remove the lower shock mount bolt and nut (Figure C).



Figure D



8.0 Remove the control arm nut and separate from the upper A arm (Figure E).



Figure E

9.0 Remove the wire harness mount from shock (Figure F).

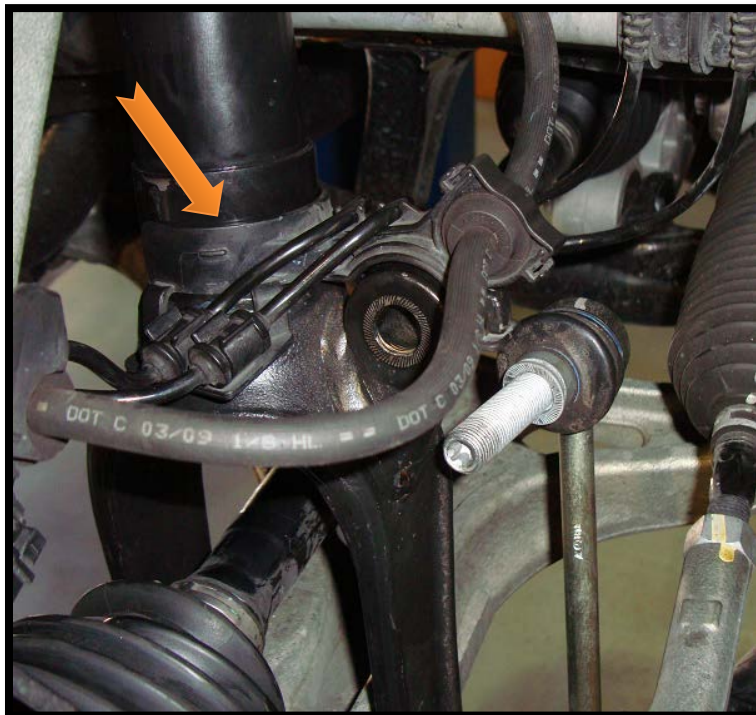


Figure F



10.0 Disconnect the airline at the top of the shock (Figure G).

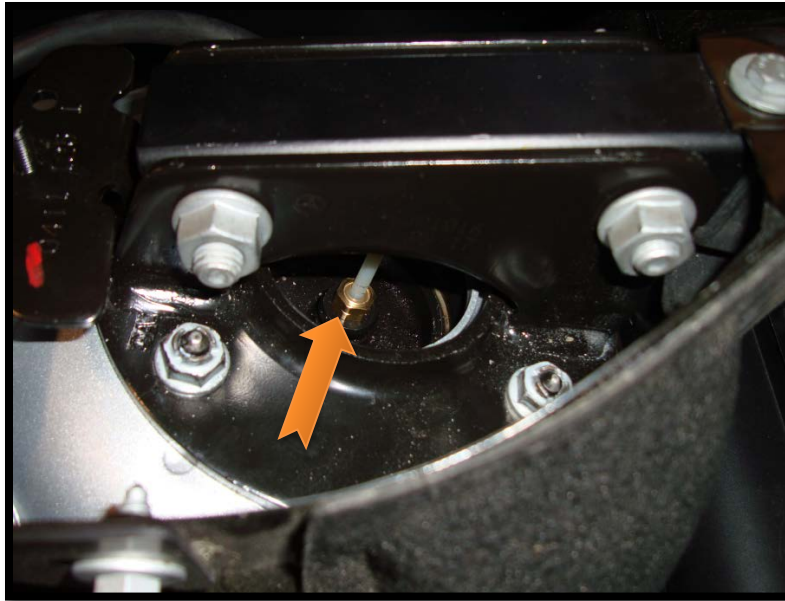


Figure G

11.0 Remove the airline fitting. To do this remove the collet and the remaining fitting will slide off of the air hose (Figure H).

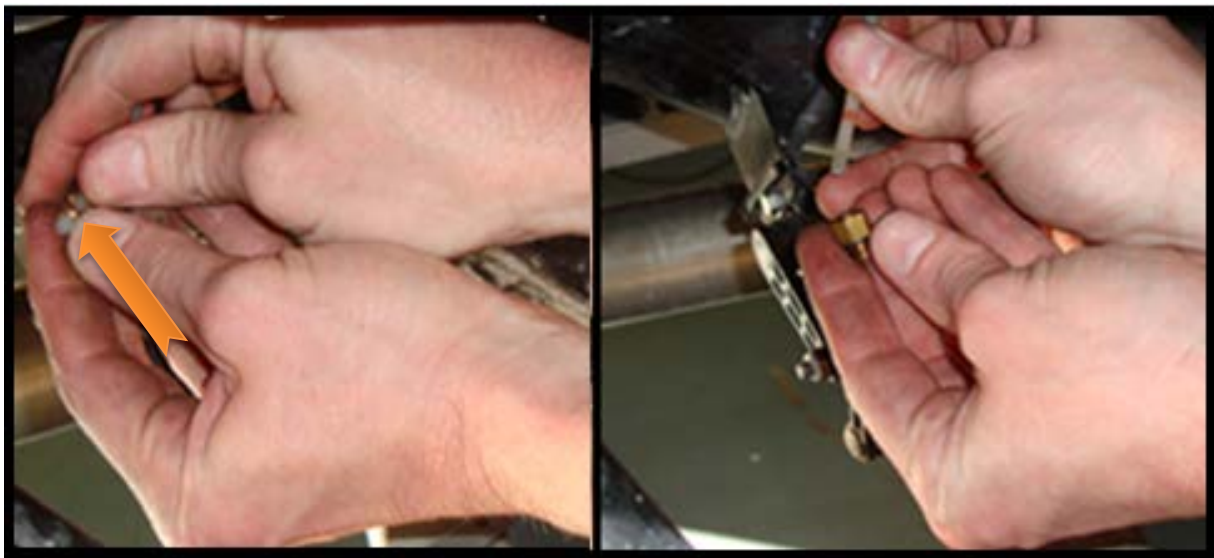


Figure H



12.0 Remove the three (3) shock top flange nuts (Figure I).



Figure I

13.0 Remove shock.

14.0 Removal Complete.



FRONT AIR SHOCK INSTALLATION:

- 1.0 Place shock into position.
- 2.0 Install the three (3) shock top mount nuts (tighten snug) (Figure J).



Figure J

WARNING: DO NOT REMOVE FITTING FROM AIR SHOCK; DOING SO CAN CAUSE DAMAGE AND VOID WARRANTY.

- 3.0 Remove the plastic pin from the air inlet fitting, push air hose in until it “locks” in place (air line should not pull out) (Figure K).

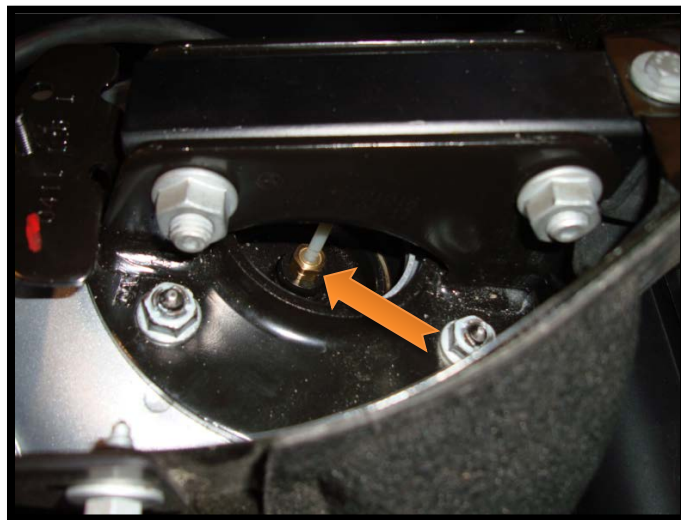


Figure K



- 4.0 Connect the control arm to the upper A frame, install nut and tighten to manufacturers specifications (Figure L).

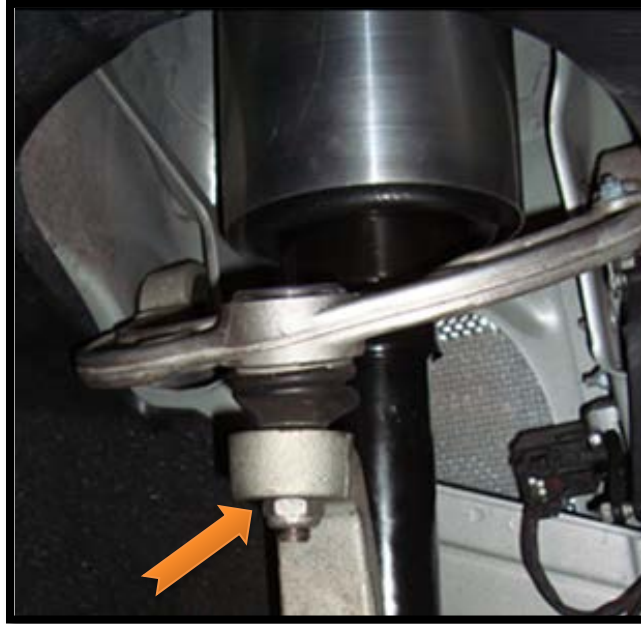


Figure L

- 5.0 Re-install the lower shock nut and bolt; tighten to manufactures specification (Figure M).



Figure M



- 6.0 Connect the sway bar linkage, install nut and tighten to manufactures specification (Figure N).



Figure N

- 7.0 Using a tie wrap secure the wire harness mount to the shock (Figure O).



Figure O



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- 8.0 Connect the air shock ADS control cable connector (located in the fender well).
- 9.0 Tighten the three (3) top shock mount nuts to the manufactures specification.
- 10.0 Install tire, tighten lug nuts to manufacturers' specification.
- 11.0 Re-install the air compressor fuse.
- 12.0 Lower vehicle to standard vehicle height from the lifting platform.
- 13.0 Start engine, wait 2 minutes, operate the raising function of the cars electronics.
- 14.0 Initially lower lifting platform slowly and only completely when the vehicle raises of its own accord.
- 15.0 Installation complete.