



INSTALLATION MANUAL

AS-2820
Arnott Front Air Strut
Mercedes-Benz S-Class (W221)
w/AIRMATIC, w/o 4MATIC



Engineered to Ride, Built to Last[®]

CONGRATULATIONS ON YOUR PURCHASE OF AN ARNOTT® SUSPENSION PRODUCT

WE AT ARNOTT LLC ARE PROUD TO OFFER A HIGH QUALITY PRODUCT WITH ALL THE TECHNICAL SUPPORT YOU NEED. 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 and certified automotive 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.

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 and www.arnotteurope.com.



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 hand, ear, and eye protection when servicing the air suspension system.

- 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. Remove front wheel. (Figures 1, 2)



FIGURE 1

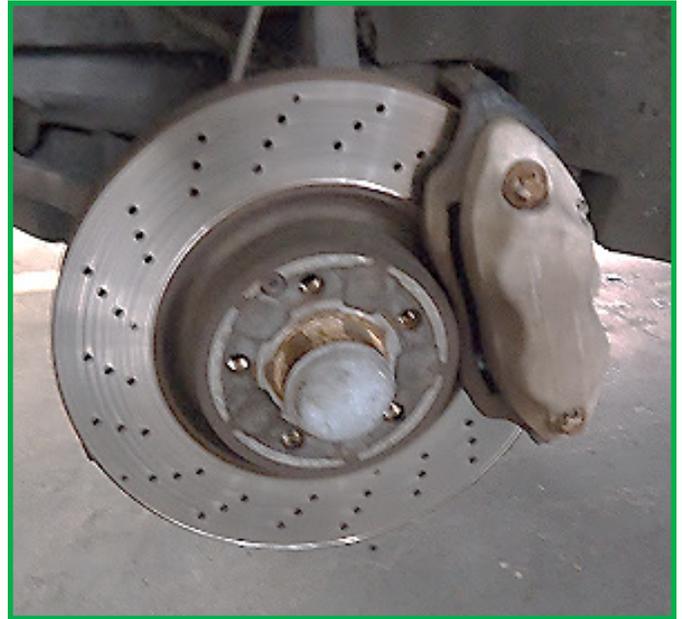


FIGURE 2

3. Remove air line and three (3) upper mount nuts. (Figures 3, 4)

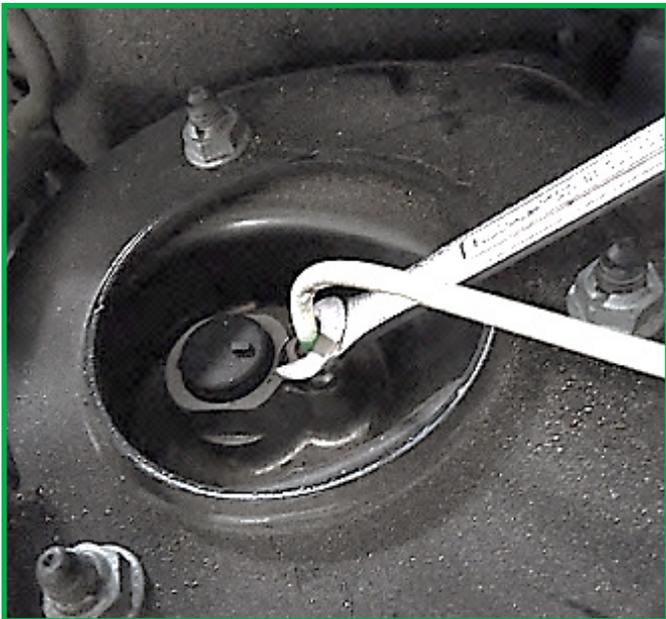


FIGURE 3

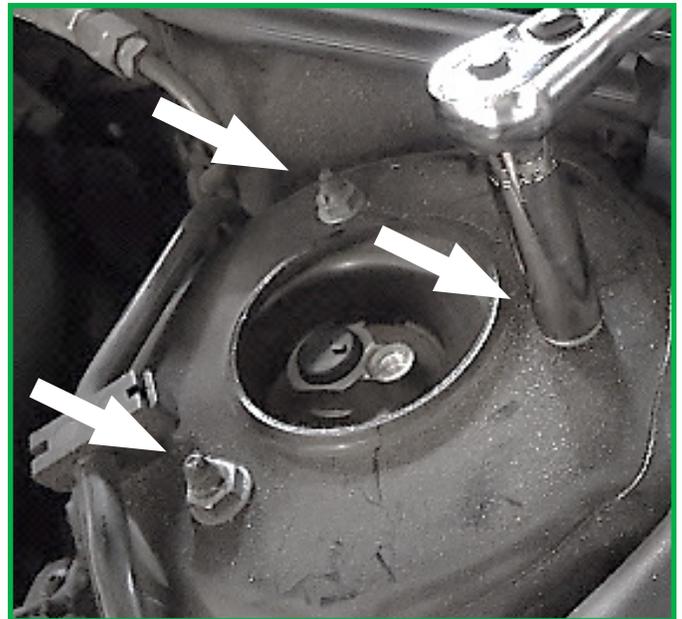


FIGURE 4

4. Locate the air strut's electrical connector and remove retaining clip. (Figure 5)

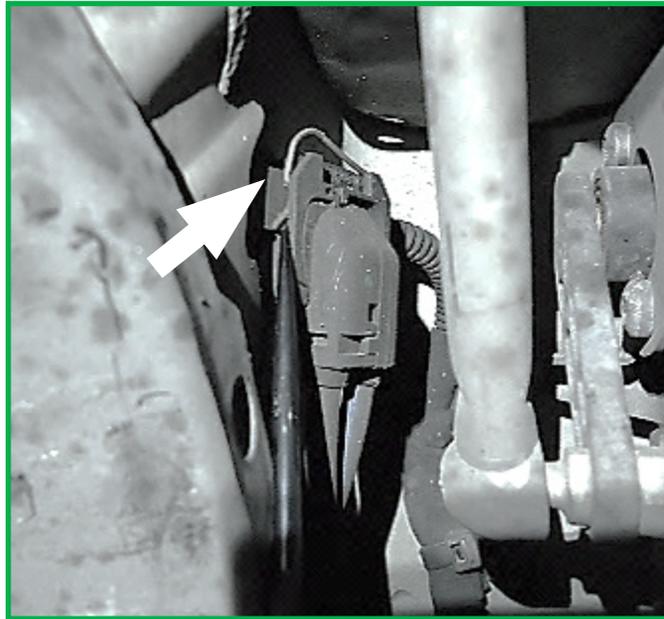


FIGURE 5

5. Disconnect and separate the two (2) electrical connectors. (Figures 6, 7)

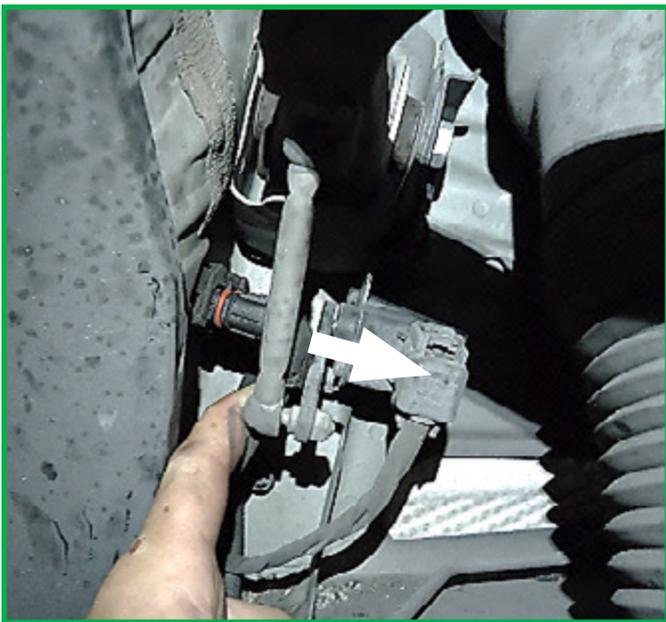


FIGURE 6

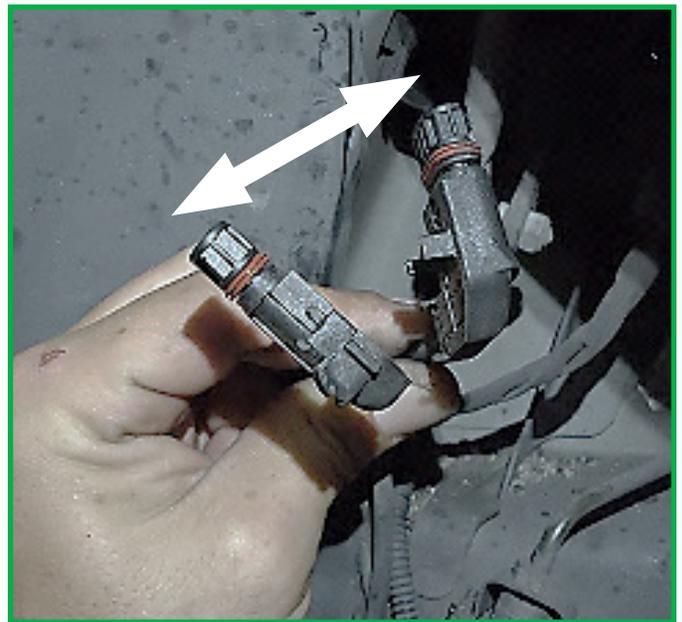


FIGURE 7

6. Cut cable ties and remove brake line bracket and bottom clip. (Figures 8, 9, 10, 11)

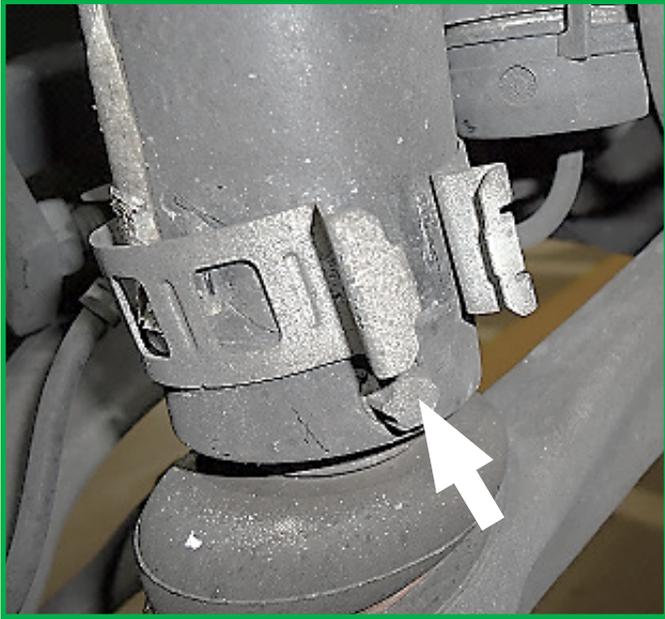


FIGURE 8

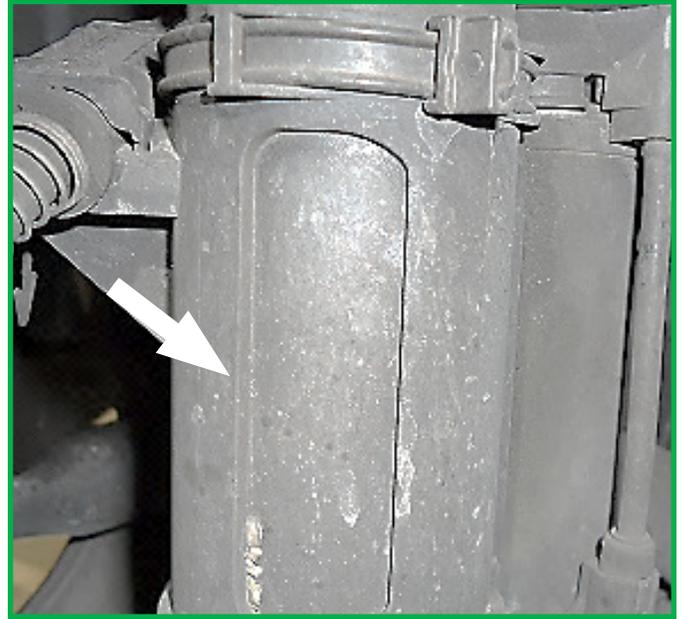


FIGURE 9

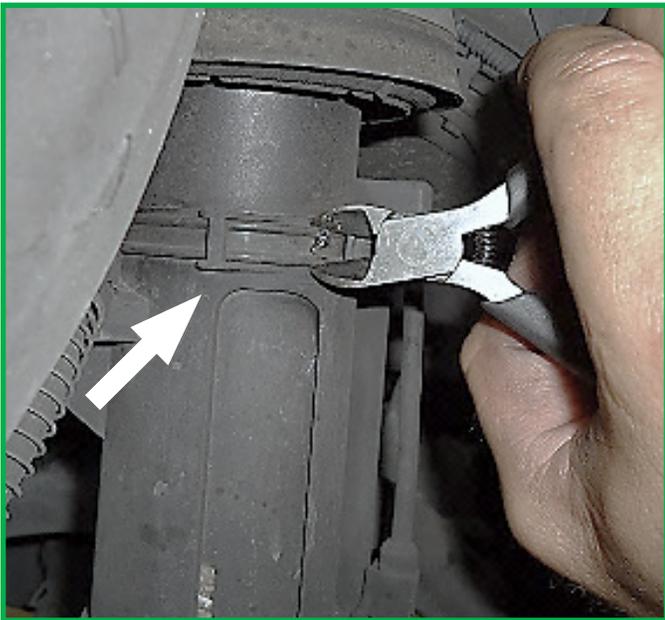


FIGURE 10



FIGURE 11

7. Locate and loosen lower mount set screws. (Figure 12)

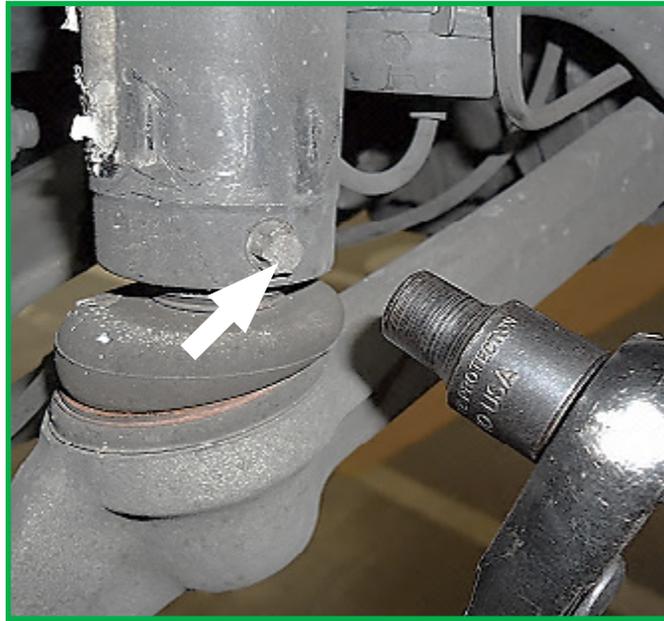


FIGURE 12

8. Loosen upper control arm nut. (Figure 13)

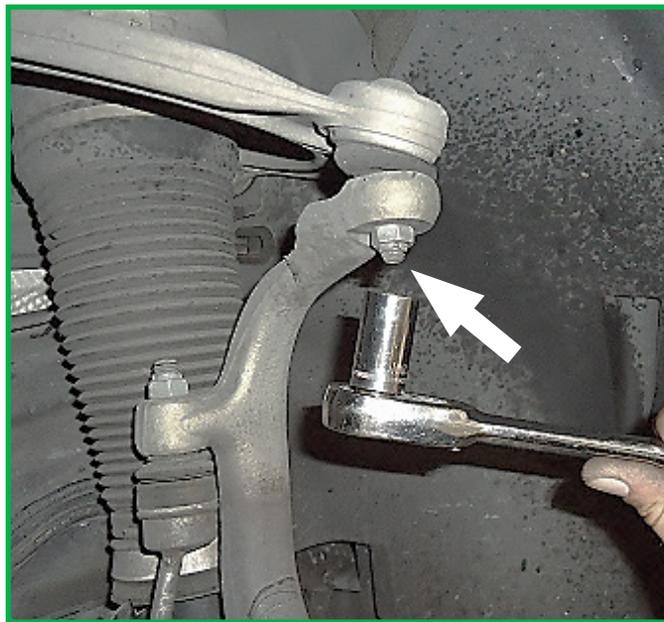


FIGURE 13

9. Separate the upper control arm from the spindle assembly. (Figures 14, 15)

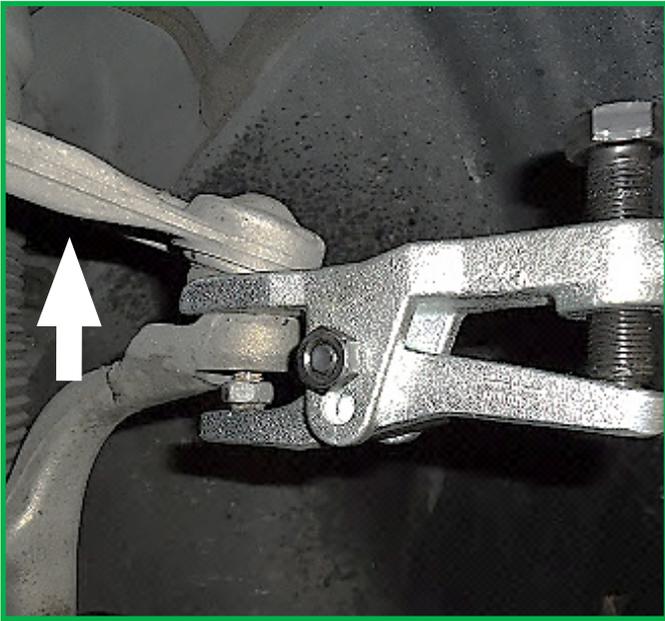


FIGURE 14



FIGURE 15

10. Pull down on the spindle assembly, and remove the air strut from the vehicle. (Figures 16, 17)

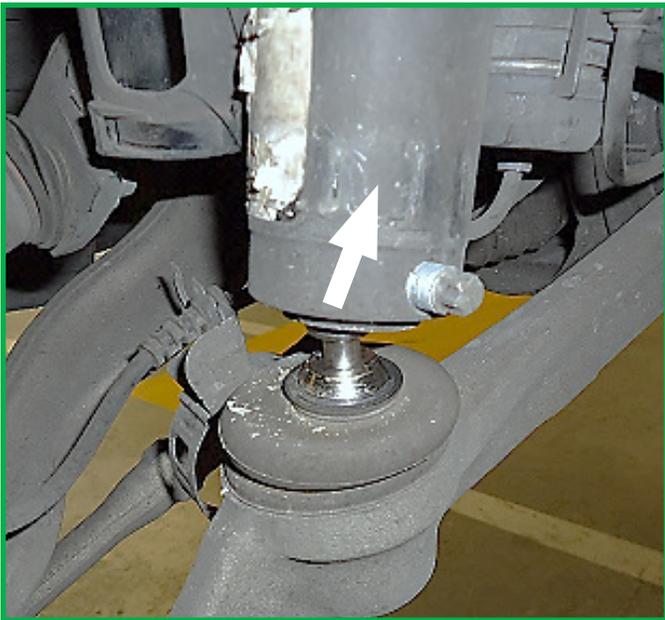


FIGURE 16



FIGURE 17

11. Removal complete.

AIR STRUT INSTALLATION



WARNING:

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

1. Install in reverse order of removal using the supplied hardware.



**ENSURE PROPER INFLATION OF THE AIR
SPRING/STRUT PER THE MANUFACTURER'S
PRESCRIBED PROCEDURE.**

**FAILURE TO DO SO MAY RESULT IN SPRING
DAMAGE AND WILL VOID PRODUCT WARRANTY.**



Arnott™

Suspension Products

Arnott US Business Office:

www.arnottinc.com

100 Sea Ray Drive
Merritt Island, FL 32953

Call: 800.251.8993

321.868.3016

Fax: 321.868.3703

Email: techassistance@arnottinc.com

Arnott Europe Business Office:

www.arnotteurope.com

Docterskampstraat 1E/1F, 3
5222 AM 's-Hertogenbosch (NL)

NL Phone: +31 73 7850 580

DE Phone: +31 85 2087 438

UK Phone: +44 203 3186 124

BE Phone: +32 258 846 90

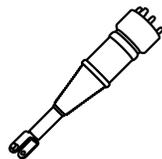
ES Phone: +34 91 901 10 56

FR Phone: +32 78 48 46 93

Email: info@arnotteurope.com



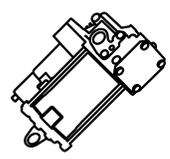
Air Springs



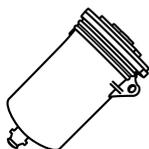
Struts



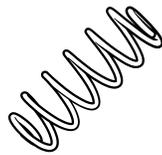
Shocks



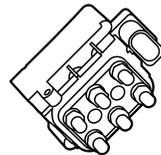
Compressors



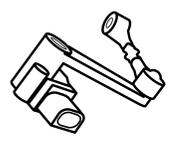
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors