



# INSTALLATION MANUAL

AS-3409

Arnott New Front Left Air Strut  
Mercedes-Benz GL/GLS/ML/GLE (X/W166, w/ADS)



**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](http://www.arnottinc.com) and [www.arnotteurope.com](http://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.

For vehicles with a "Closed Air Supply System," replacement of components requires proper adherence to procedures set forth within OE servicing literature. Failure to comply with the OE prescribed procedures can result in component damage and/or failure.

# AIR STRUT REMOVAL

1. Set steering to straight ahead.
2. Raise vehicle.
3. Remove the left front wheel.
4. Open the hood.
5. Remove any applicable rubber trim depicted as needed. (Figures 1, 2)



FIGURE 1

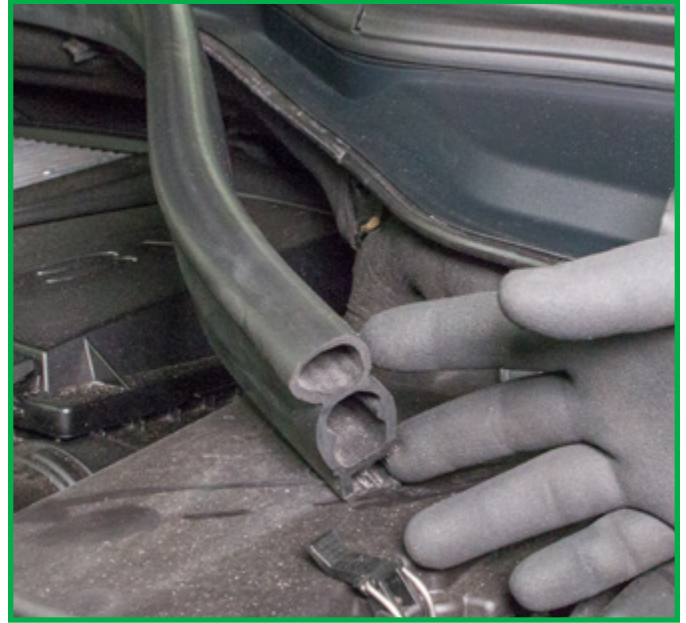


FIGURE 2

6. Remove panel to gain access to the air strut top mount. (Figure 3)



FIGURE 3

7. Disconnect the air line from the strut assembly. (Figure 4)



FIGURE 4

8. Remove the three (3) top strut mount nuts. (Figure 5)



FIGURE 5



9. Disconnect the damping coil electrical connection. (Figure 6)



FIGURE 6

10. Unroute wires from the strut wire harness bracket. (Figure 7)



FIGURE 7

11. Remove the upper sway arm link nut. (Figure 8)



FIGURE 8

12. Disconnect the steering link from the wheel carrier mount. (Figures 9, 10)

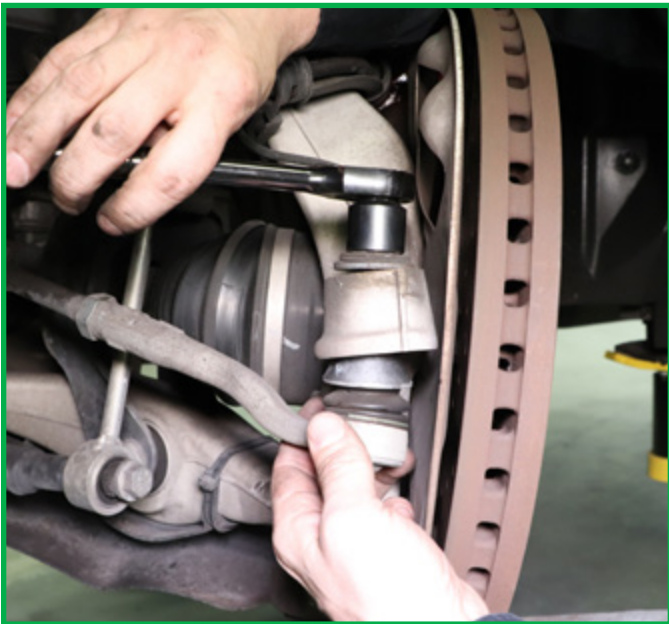


FIGURE 9

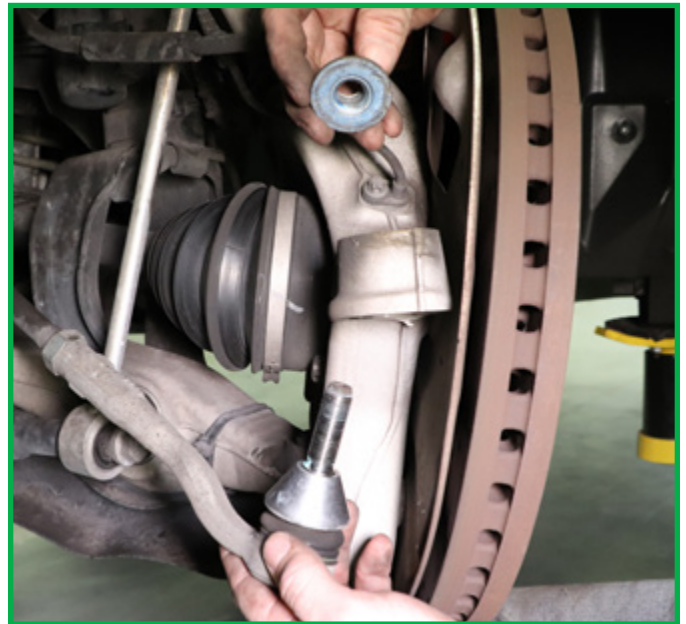


FIGURE 10

13. Remove the bottom strut mount bolt. (Figure 11)

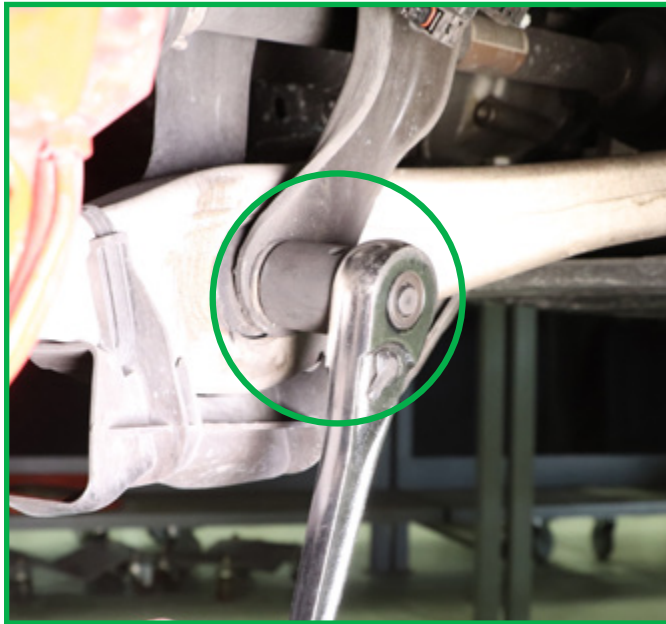


FIGURE 11

14. Disconnect and separate the wheel carrier and upper control arm. (Figures 12, 13)



FIGURE 12



FIGURE 13



15. Separate the sway arm link from the wheel carrier mount. (Figure 14)



FIGURE 14

16. Disconnect axle at the gearbox enough to help maneuver strut removal. (Figure 15)



FIGURE 15



17. Carefully remove the air strut. (Figure 16)



FIGURE 16

18. Removal complete.

# AIR STRUT INSTALLATION



**WARNING:**

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



**WARNING:**

Do not remove the air fitting from the air strut. 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. Carefully install the strut into the vehicle. (Figure 17)



FIGURE 17

2. Reinstall the axle back into the gearbox. (Figure 18)

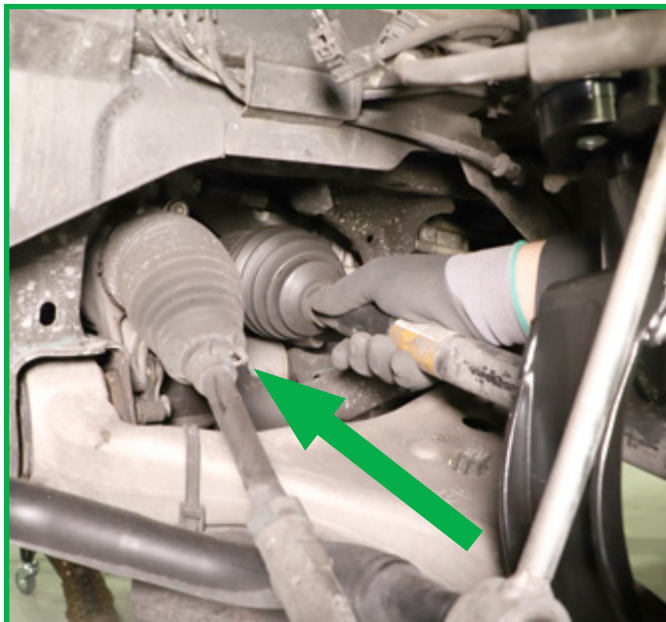


FIGURE 18

3. Reconnect the sway arm link at the wheel carrier mount. (Figure 19)



FIGURE 19

4. Reconnect the wheel carrier and upper control arm. Tighten to manufacturer's specifications. (Figures 20, 21)



FIGURE 20

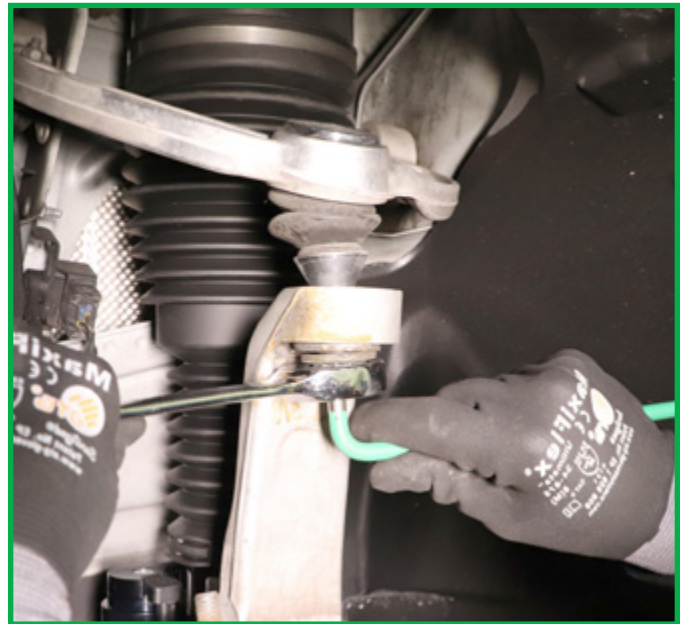


FIGURE 21



5. Insert the bottom mount bolt. Using an appropriate jack, position the wheel carrier to normal trim height. Tighten to manufacturer's specifications. (Figures 22, 23)



FIGURE 22



FIGURE 23

6. Reconnect the steering link to the wheel carrier mount and tighten to manufacturer's specifications. (Figures 24, 25)

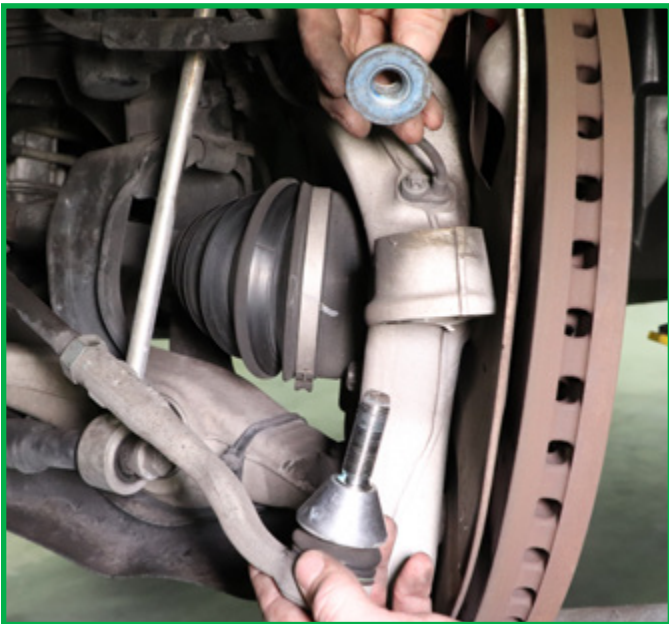


FIGURE 24



FIGURE 25



7. Reinstall sway arm link nut and tighten to manufacturer's specifications. (Figure 26)



FIGURE 26

8. Reconnect and secure strut damping coil wires. (Figures 27, 28)



FIGURE 27

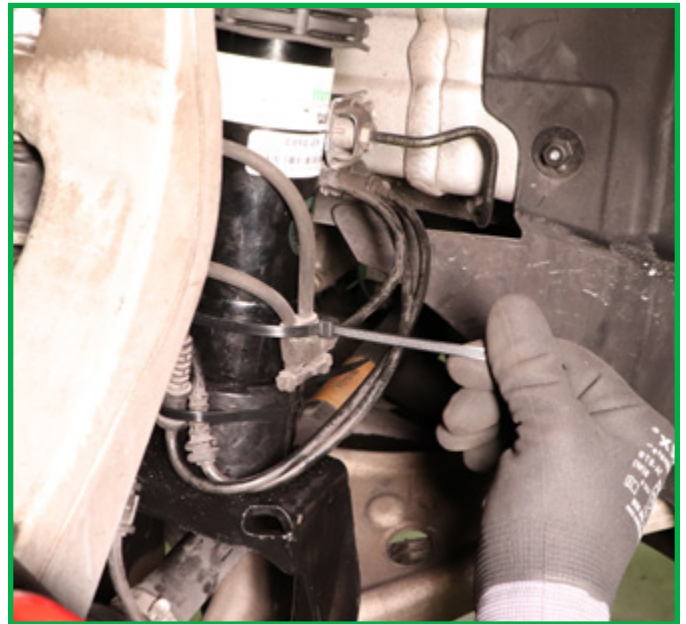


FIGURE 28

9. Install the three (3) top strut mount nuts. Tighten to manufacturer's specifications. (Figure 29)

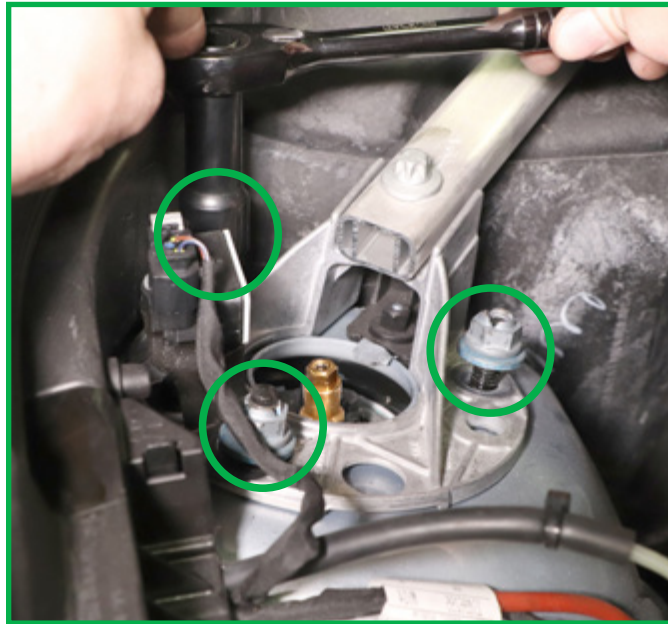


FIGURE 29

10. Remove the white shipping pin on the new air line fitting. Insert the air line into the new air fitting until the air line is firmly seated within the fitting. (Figures 30, 31)



FIGURE 30



FIGURE 31

11. Reinstall the panel covering the air strut top mount.  
12. Reinstall any additional applicable rubber trim or paneling.  
13. Reinstall the left front wheel.  
14. Inflate the air system per manufacturer's specifications.  
15. Lower the vehicle.  
16. Installation complete.

# Arnott<sup>®</sup>

## Suspension Products

### Arnott US Business Office:

[www.arnottinc.com](http://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](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Industrieweg 19  
5145 PD, Waalwijk (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

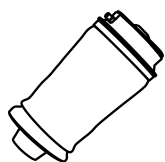
**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

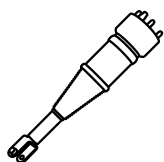
**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

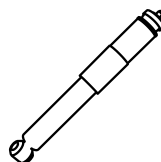
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



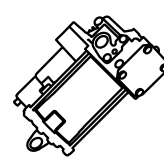
Air Springs



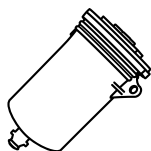
Struts



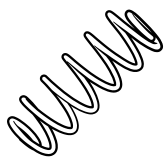
Shocks



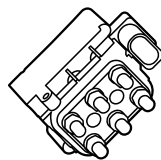
Compressors



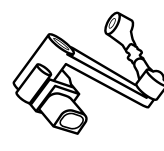
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors