



INSTALLATION MANUAL

AS-3163 Arnott New Front Left Air Strut Mercedes-Benz S-Class/Maybach (W222, Incl. AMG)



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.

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. Raise vehicle at lifting points prescribed by manufacturer.
2. Remove applicable engine bay trim to gain access to the top strut mount. (Figures 1, 2)



FIGURE 1



FIGURE 2

3. Slowly disconnect air line fitting from the top of the strut. (Figure 3)

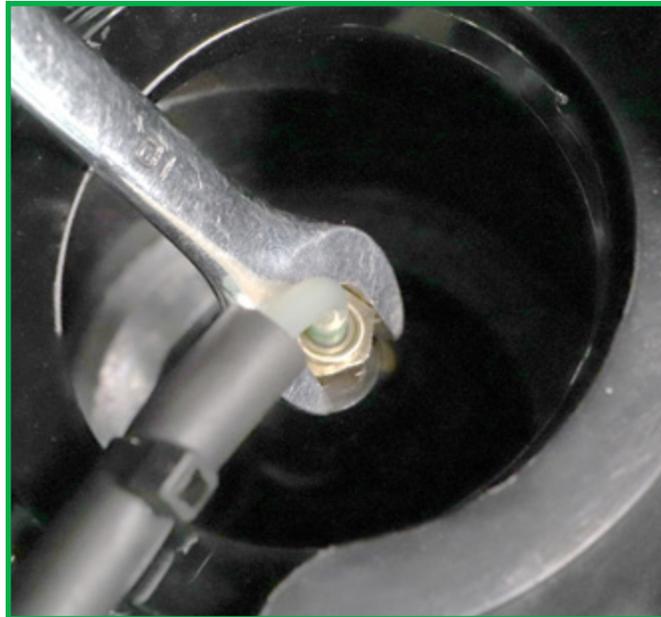


FIGURE 3

4. Remove used air line fitting from the air line and discard. Use the figure below as an example. (Figure 4)

REMOVAL



Prior to inserting the existing air line into the new air strut you will need to remove the old original equipment air line fitting and discard.

NOTE: Scratches and/or deep cuts in the air line can result in possible leaks. Inspect the air line before insertion. Air line needs to be replaced if damaged.

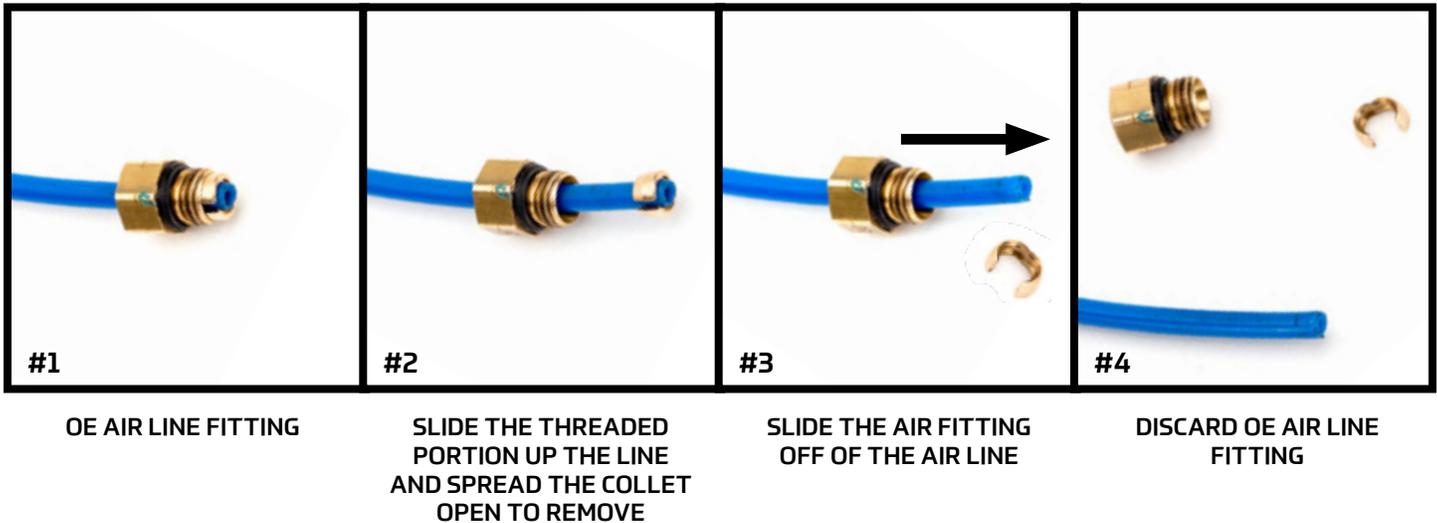


FIGURE 4

5. Remove front left wheel. (Figure 5)



FIGURE 5

6. Disconnect the two (2) electrical connectors from the strut. (Figures 6, 7)

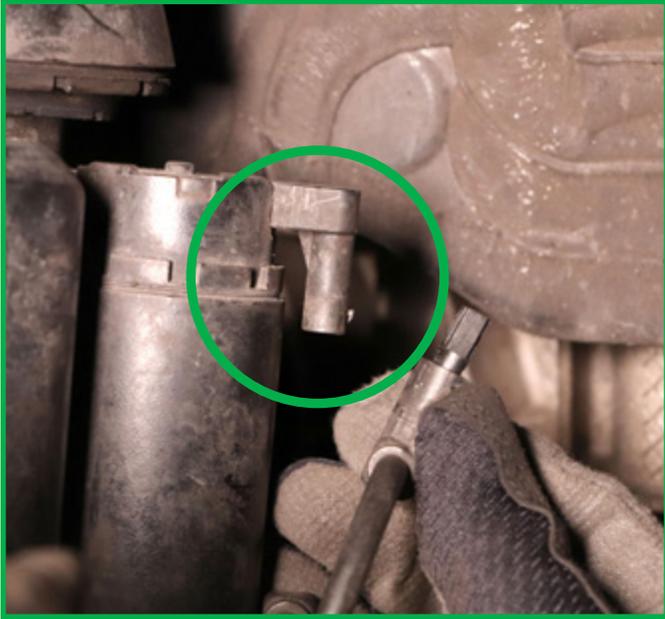


FIGURE 6

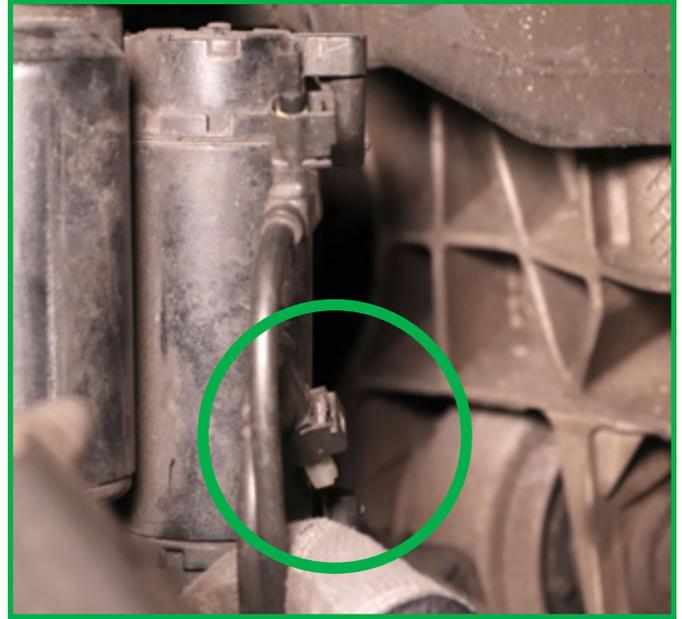


FIGURE 7

7. Unroute the lines and disconnect the strut wire harness from the lower mount of the strut. (Figures 8, 9)

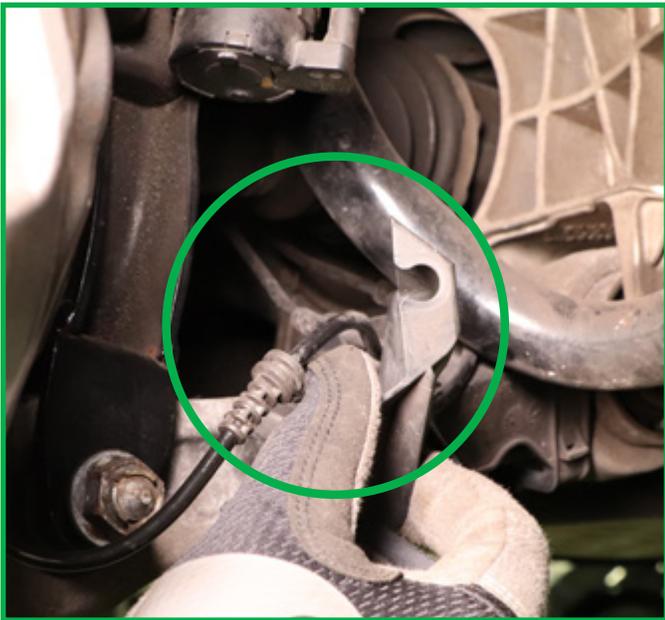


FIGURE 8

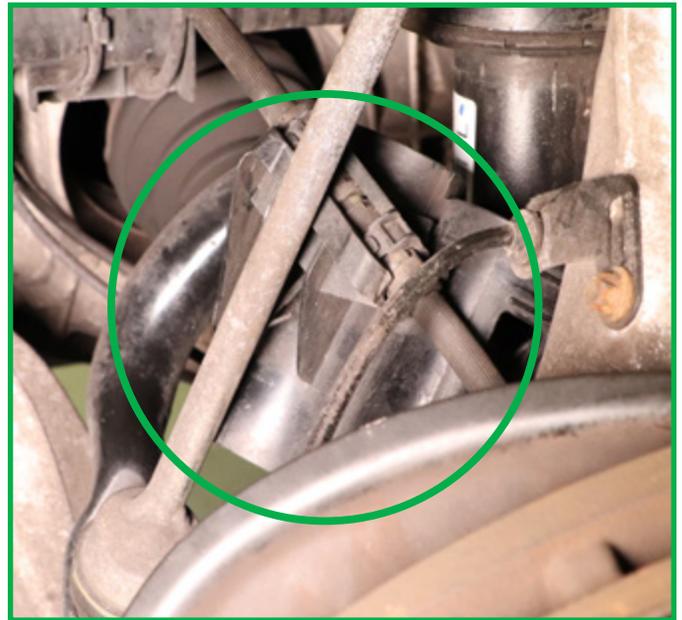


FIGURE 9

8. Remove lower strut bolt and nut. (Figures 10, 11)



FIGURE 10



FIGURE 11

9. Remove the three (3) top mount nuts. (Figure 12)

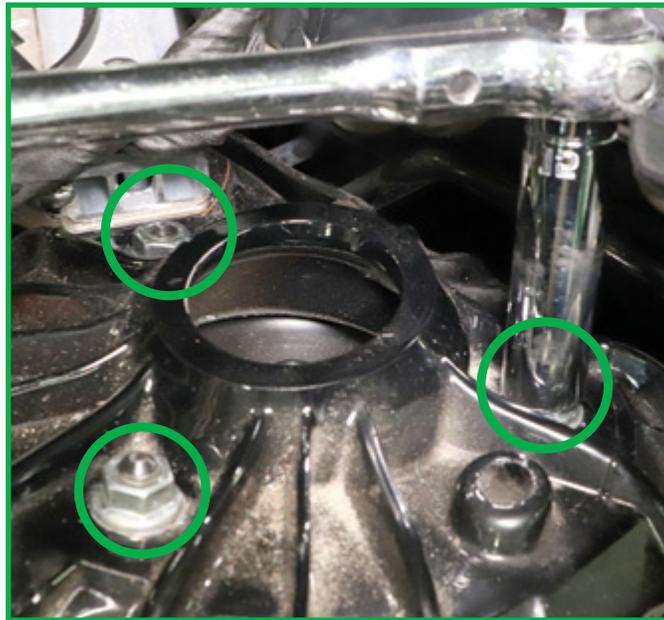


FIGURE 12

10. Remove bolt and nut from spindle and disconnect. (Figures 13, 14)



FIGURE 13

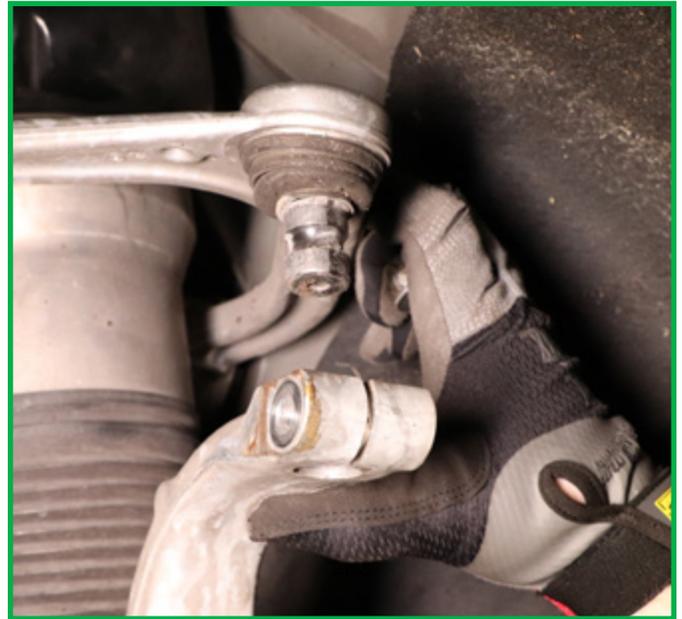


FIGURE 14

11. Remove the strut from the vehicle. (Figure 15)



FIGURE 15

12. Removal complete.

AIR STRUT INSTALLATION



WARNING:

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

1. Remove the shipping plug from the check valve and install the VOSS fitting from the provided accessory kit on to the arnott air strut. Remove the shipping pin from the VOSS fitting. (Figures 16, 17, 18)

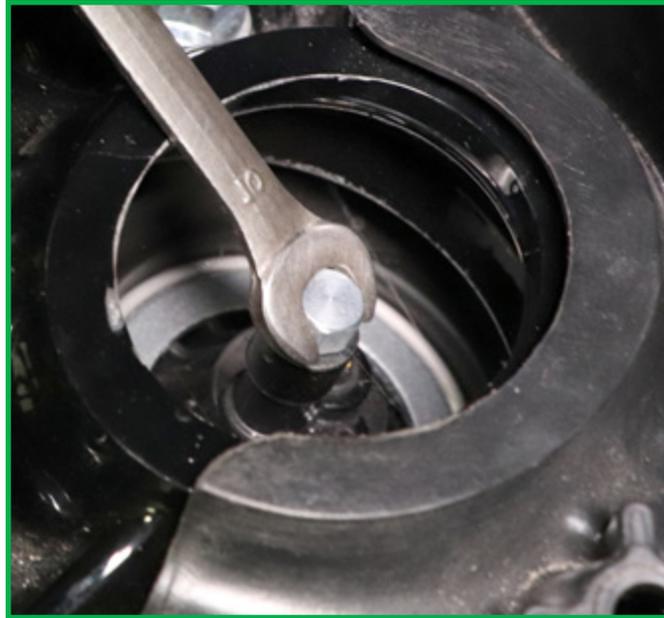


FIGURE 16



FIGURE 17

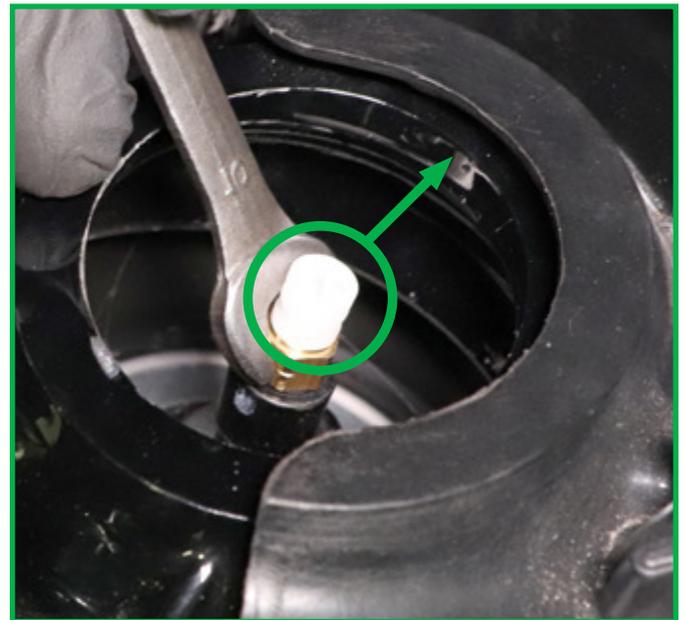


FIGURE 18

2. Install the Arnott strut in the vehicle. (Figure 19)

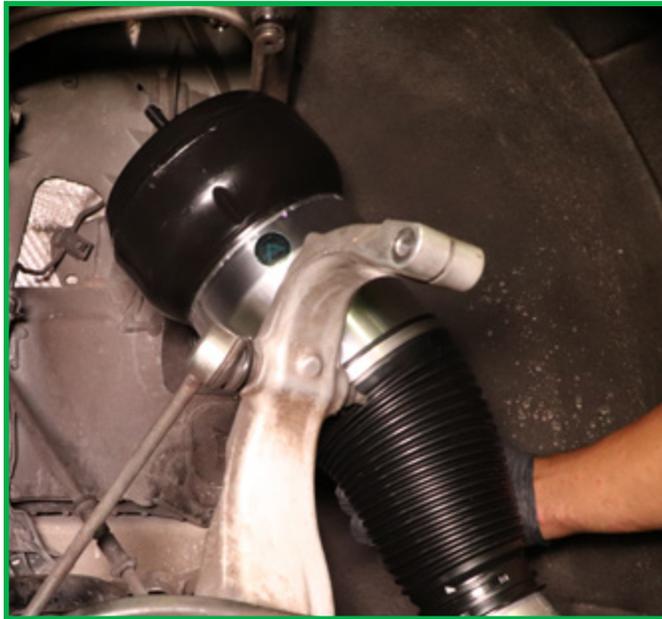


FIGURE 19

3. Reconnect the spindle to install the bolt and nut. Tighten to manufacturer's specifications. (Figures 20, 21)



FIGURE 20



FIGURE 21

4. Reinstall the bottom mount bolt and nut. Tighten to manufacturer's specifications. (Figure 22)

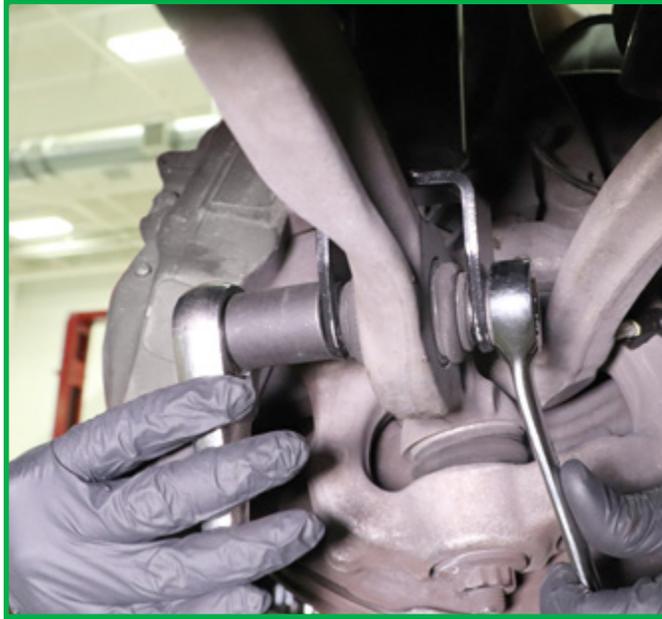


FIGURE 22

5. Install the three (3) top mount nuts provided in the accessory kit. Tighten to manufacturer's specifications. (Figure 23)



FIGURE 23

6. Connect the two (2) electrical connectors to the new strut solenoid. (Figures 24, 25)



FIGURE 24



FIGURE 25

7. Reinstall the strut wire harness using the provided zip tie and reroute the lines. (Figures 26)

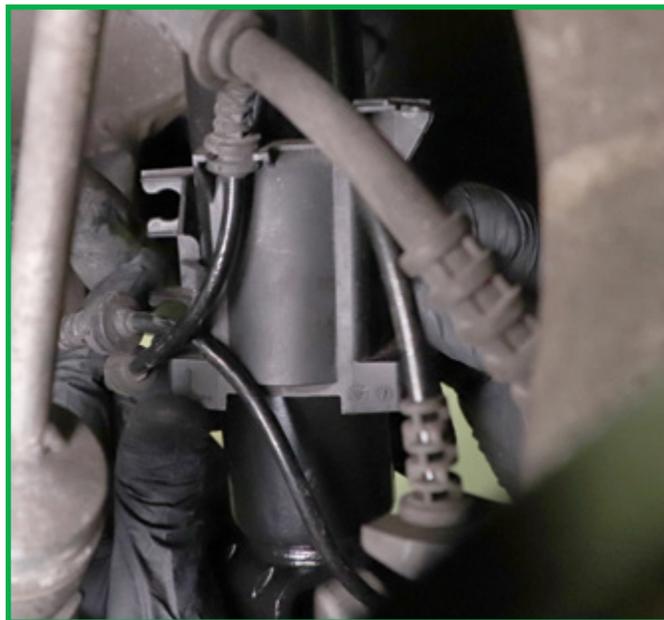


FIGURE 26

8. Push the air line into the air fitting on the top of the strut until it is fully sealed/seated. (Figure 27)



FIGURE 27

9. Reinstall the applicable engine bay trim.
10. Reinstall the front left wheel.
11. Inflate the air strut per manufacturer's specifications.
12. Lower the vehicle.
13. Installation complete.

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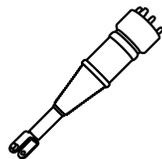
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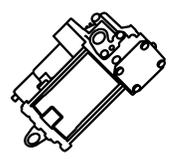
Air Springs



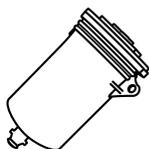
Struts



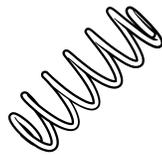
Shocks



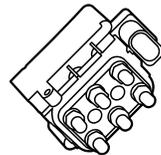
Compressors



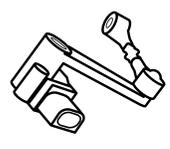
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors