



INSTALLATION MANUAL

AS-3365

Arnott New Rear 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.
2. Remove left rear wheel.
3. Remove cover from control arm. (Figure 1)



FIGURE 1

4. Disconnect ride height sensor arm. (Figures 2, 3)



FIGURE 2



FIGURE 3

- Gain access to top nuts and airline by removing rear speaker and foam inserts underneath. Remove the air line. (Figures 4, 5)



FIGURE 4



FIGURE 5

- Remove OE air line fitting from the air line and discard. Use the figure below as an example. (Figure 6)

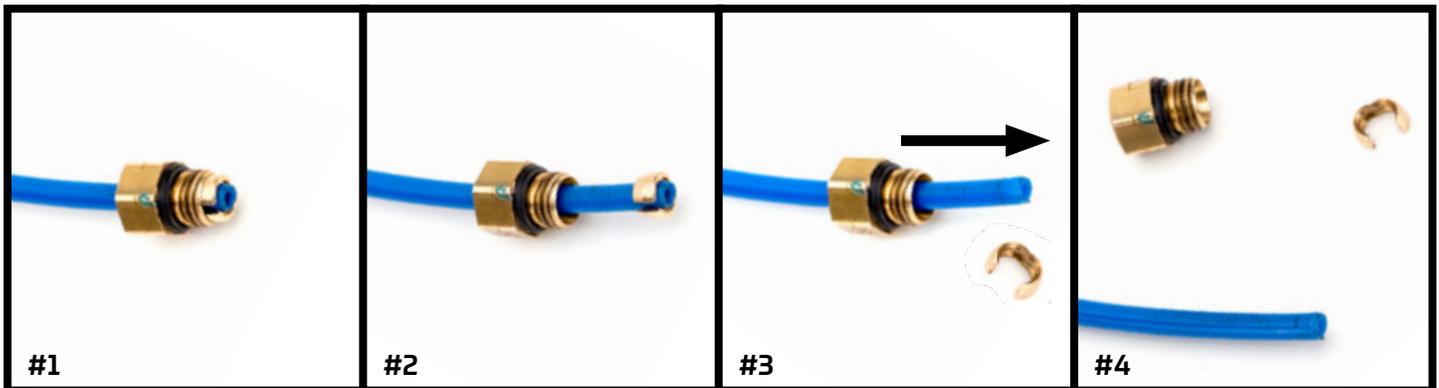
REMOVAL



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.



#1 OE AIR LINE FITTING

#2 SLIDE THE THREADED PORTION UP THE LINE AND SPREAD THE COLLET OPEN TO REMOVE

#3 SLIDE THE AIR FITTING OFF OF THE AIR LINE

#4 DISCARD OE AIR LINE FITTING

FIGURE 6

7. Disconnect both electrical connectors. (Figures 7, 8)

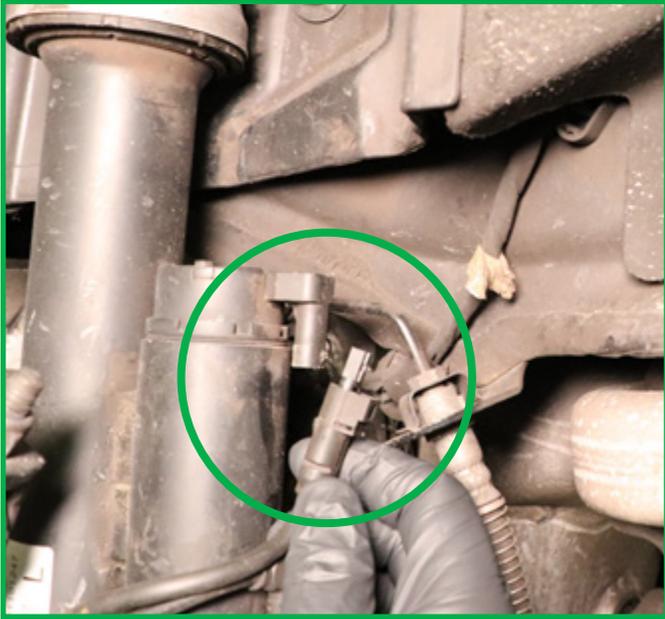


FIGURE 7

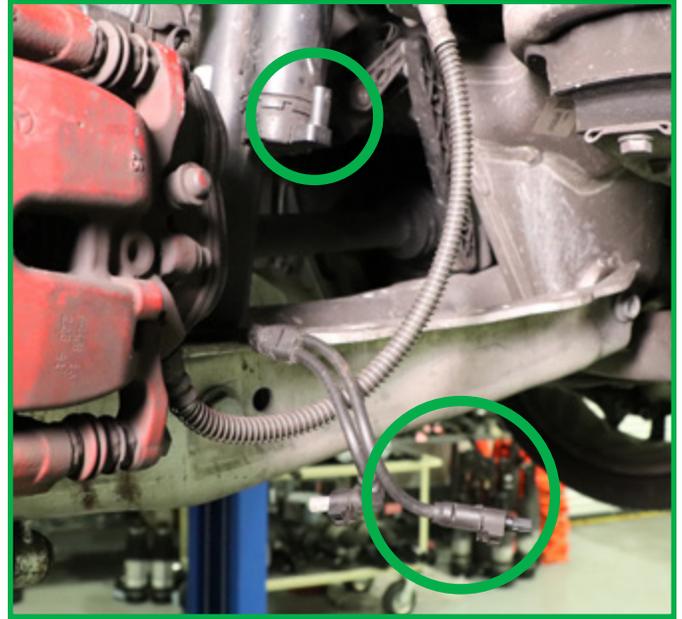


FIGURE 8

8. Remove sway bar linkage. (Figures 9, 10, 11)



FIGURE 9

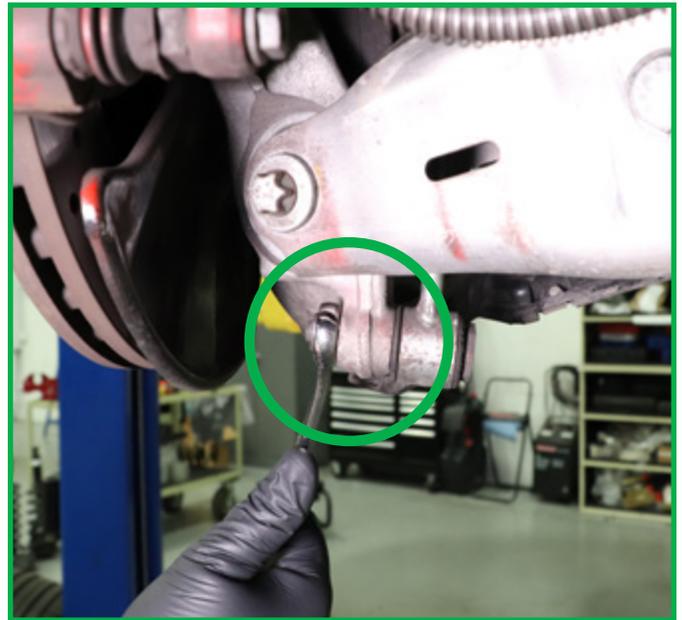


FIGURE 10



FIGURE 11

9. Remove lower strut bolt. (Figures 12, 13)

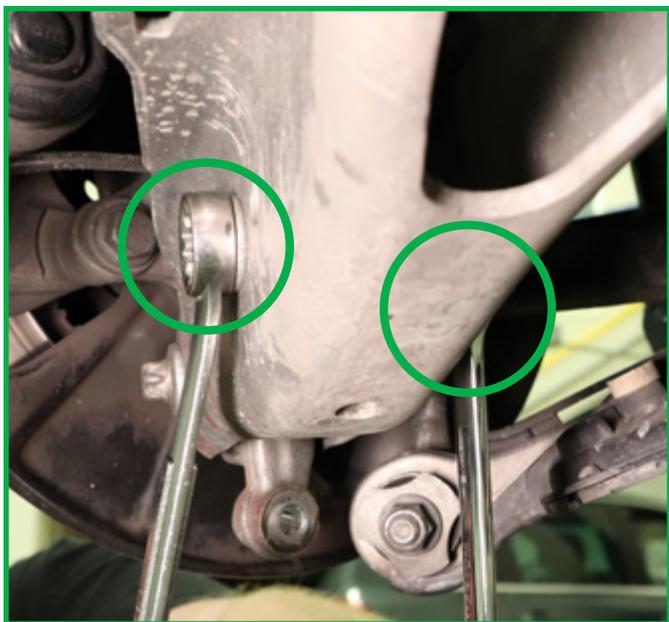


FIGURE 12

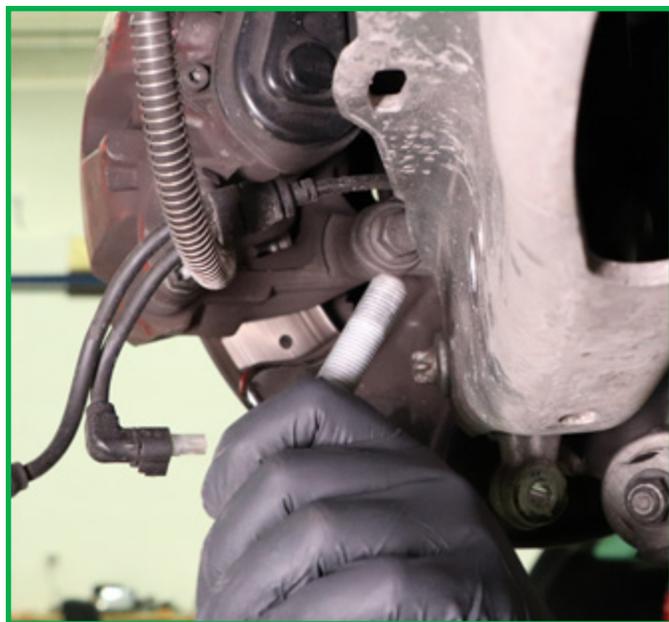


FIGURE 13

10. Disconnect torsion bar from wheel carrier. (Figures 14, 15)



FIGURE 14



FIGURE 15

11. Loosen control arm at rear axle carrier. Disconnect control arm at wheel carrier. Swing control arm down. (Figures 16, 17, 18)



FIGURE 16

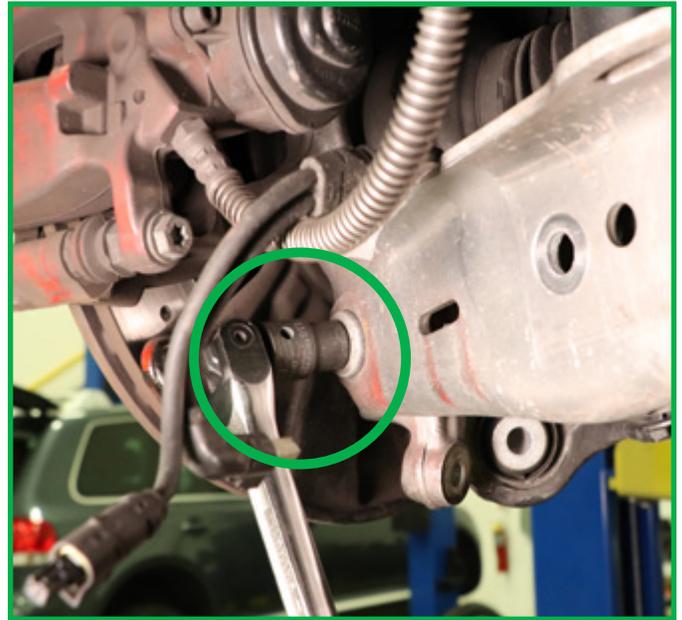


FIGURE 17

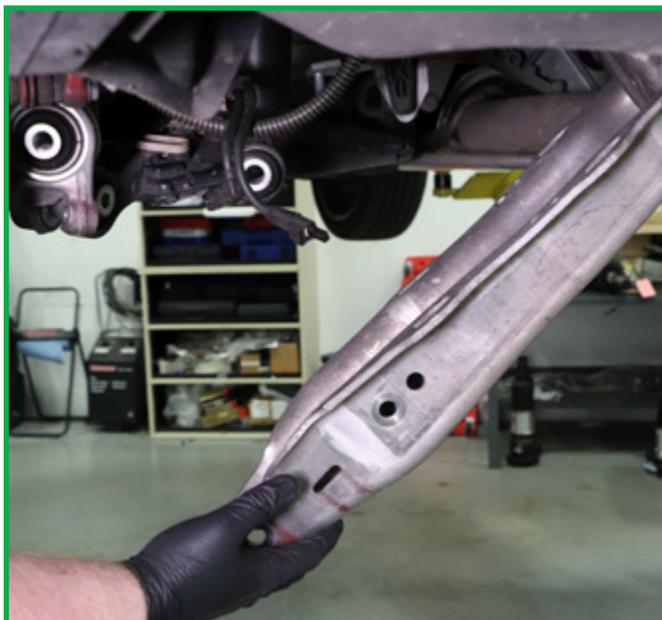


FIGURE 18

12. With assistance, remove the three (3) top nuts from the strut and remove from vehicle. (Figures 19, 20, 21)



FIGURE 19

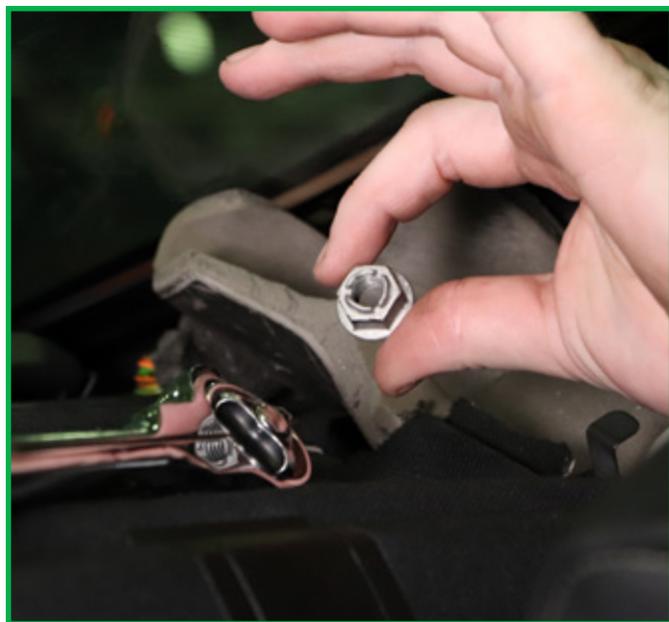


FIGURE 20



FIGURE 21

13. 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. Use the figures below as an example. (Figures 22, 23, 24, 25)

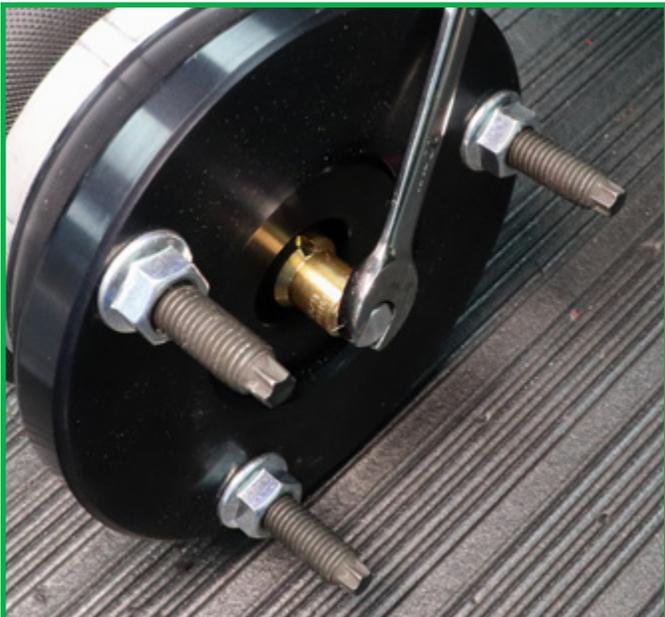


FIGURE 22

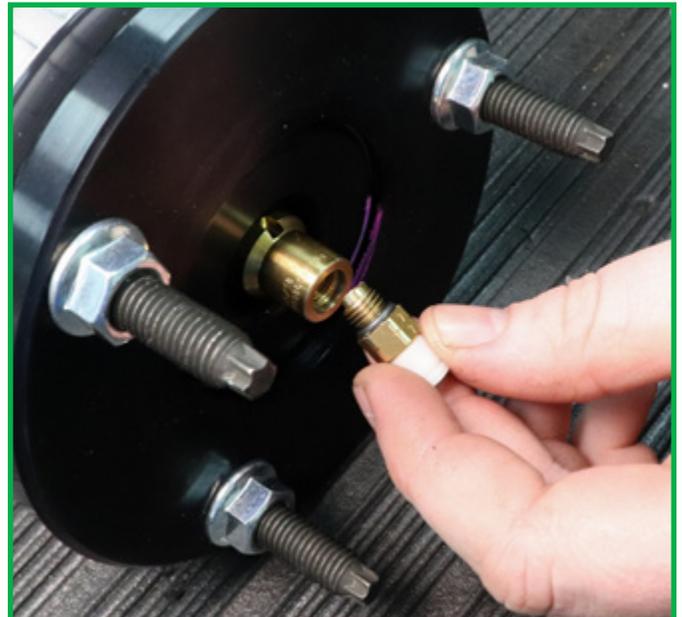


FIGURE 23

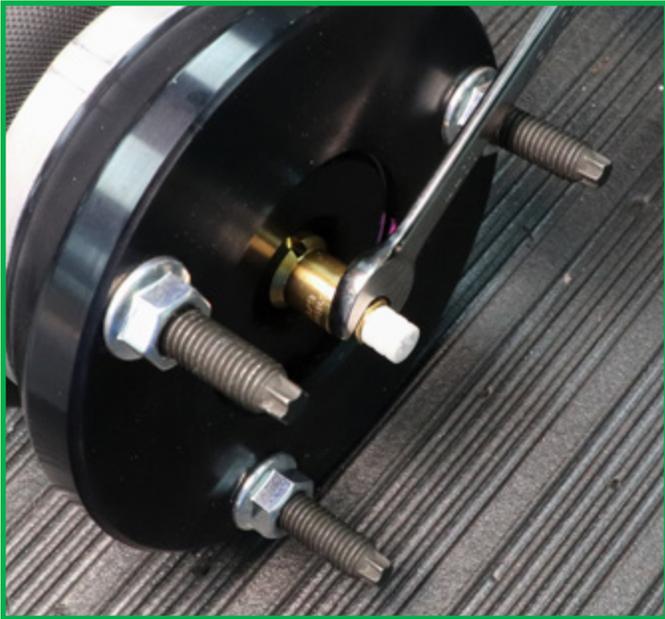


FIGURE 24

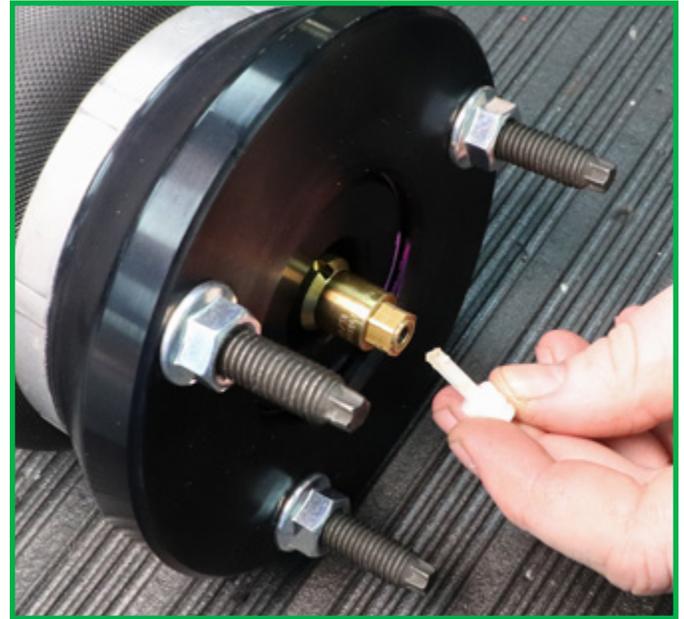


FIGURE 25

2. Install the Arnott strut onto the vehicle in the same orientation as removed. (Figure 26)



FIGURE 26

3. Install the provided top nuts loosely to retain strut in place. (Figure 27)



FIGURE 27

4. Insert the lower control arm to wheel carrier bolt. Insert the lower strut bolt. Using an appropriate jack, position the wheel carrier to normal trim height. Tighten the lower strut bolt to manufacturer's specifications. (Figures 28, 29, 30)

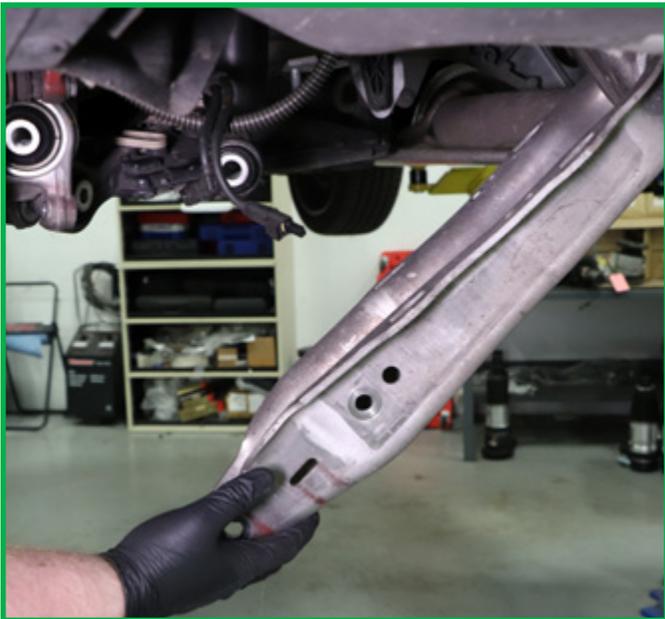


FIGURE 28

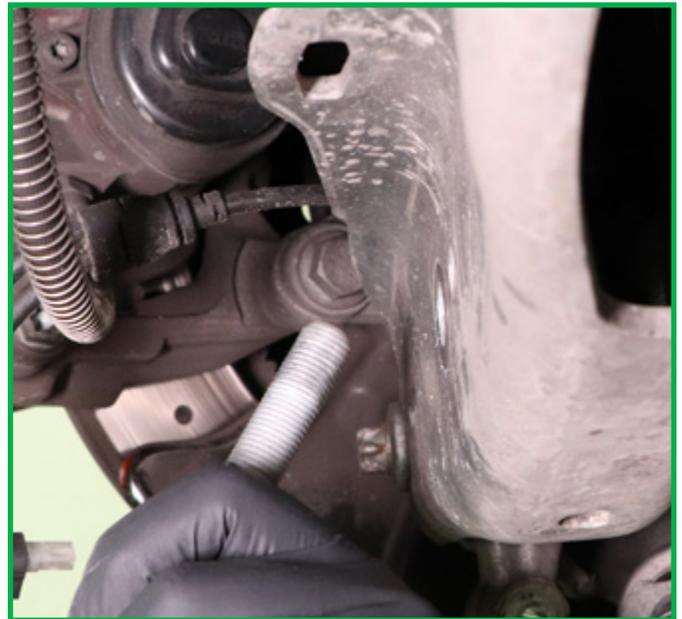


FIGURE 29

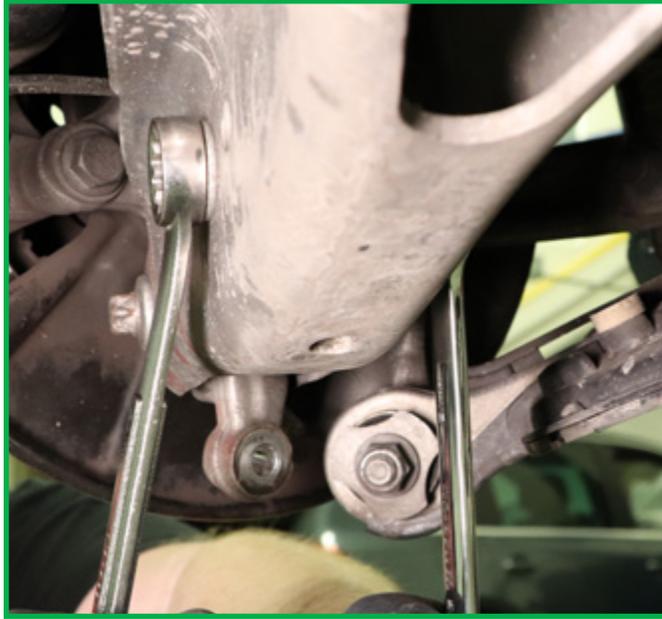


FIGURE 30

5. Tighten control arm to wheel carrier bolt. Tighten to manufacturer's specifications. (Figure 31)

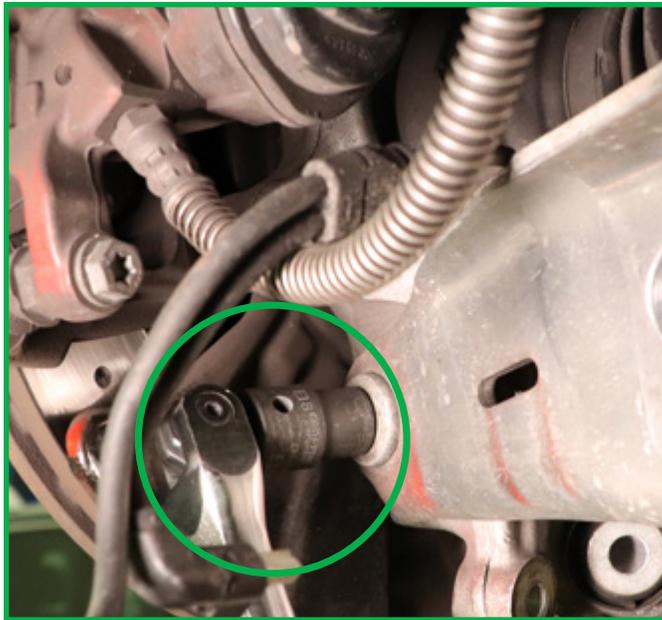


FIGURE 31

6. Connect torsion bar to wheel carrier. (Figures 32, 33)



FIGURE 32



FIGURE 33

7. Install sway bar linkage. (Figures 34, 35, 36)



FIGURE 34

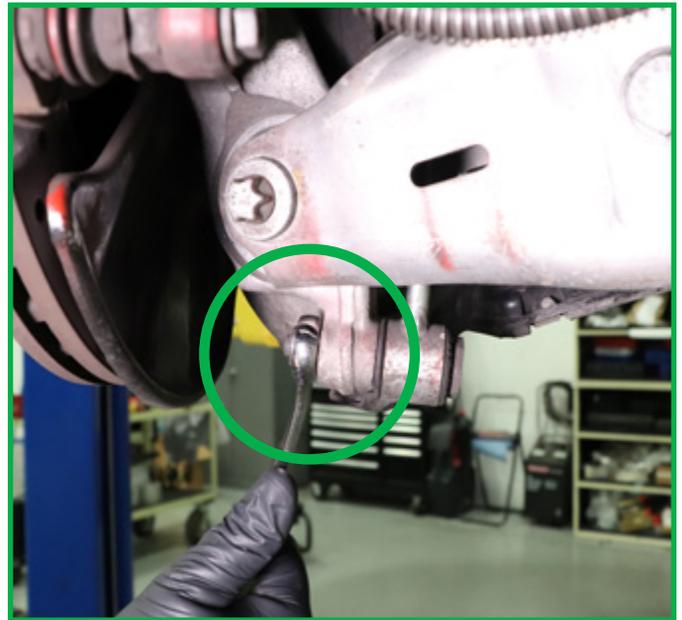


FIGURE 35

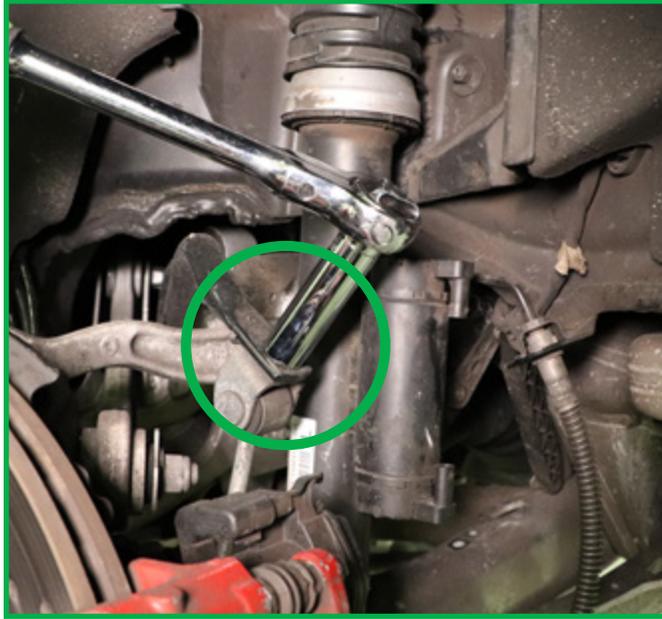


FIGURE 36

8. Tighten control arm at axle carrier. (Figure 37)



FIGURE 37

9. Connect the two (2) electrical connections to the strut. (Figures 38, 39)



FIGURE 38

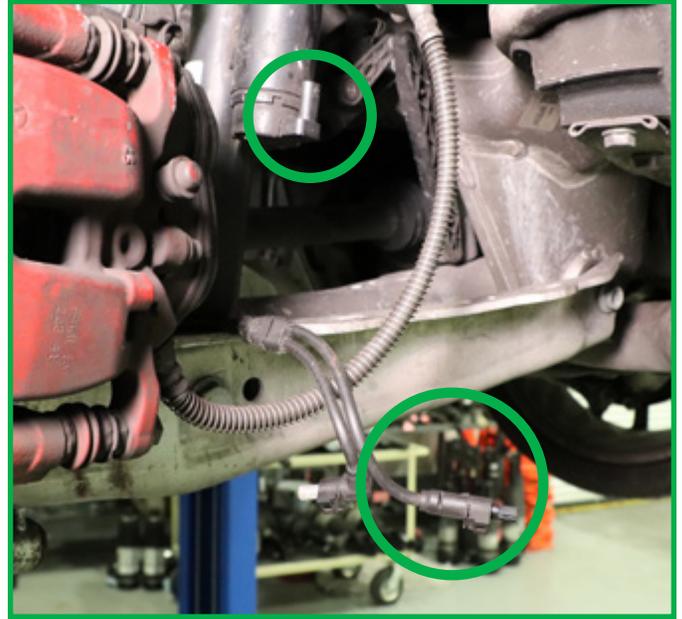


FIGURE 39

10. Reinstall the ride height sensor in the exact orientation as removed. (Figure 40)

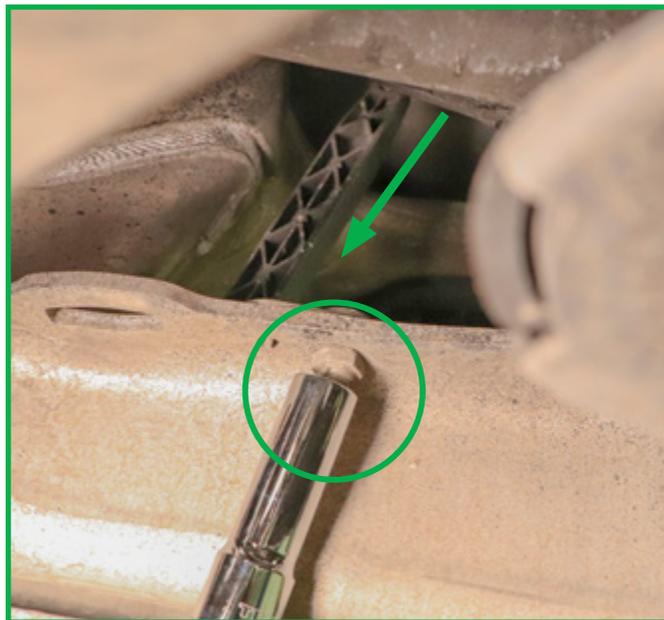


FIGURE 40

11. Install the control arm cover. (Figure 41)

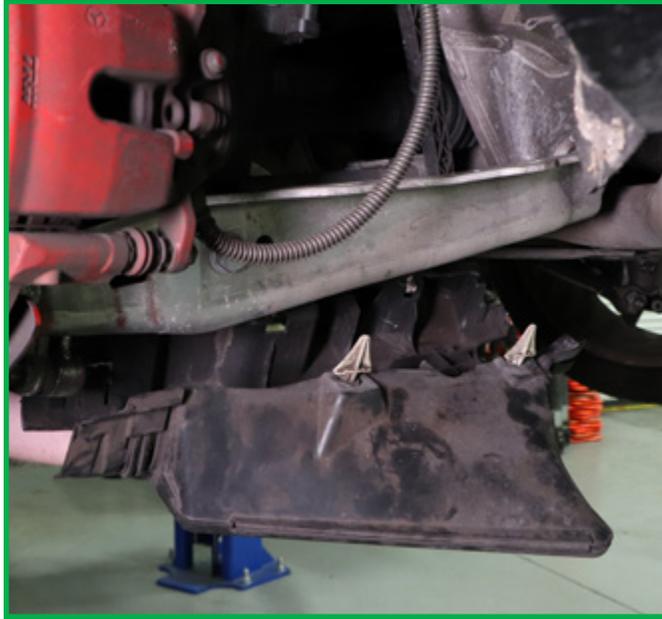


FIGURE 41

12. Tighten the three (3) top nuts. Tighten to manufacturer's specifications. (Figure 42)



FIGURE 42

13. Connect the air line. Press the line in until it seats in the fitting firmly. Use the figure below as an example. (Figure 43)

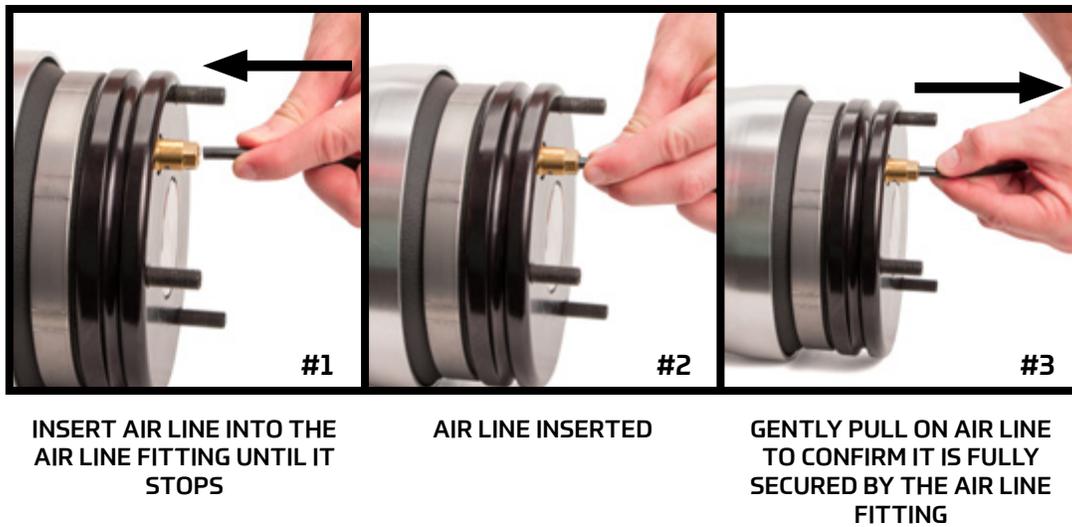


FIGURE 43

14. Replace foam inserts and rear speaker above the air strut.
15. Install the wheel.
16. Lower vehicle.
17. Installation complete.

Arnott®

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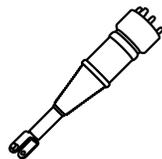
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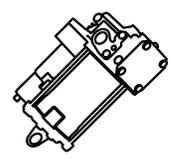
Air Springs



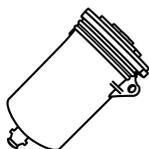
Struts



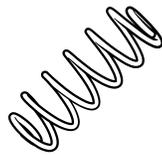
Shocks



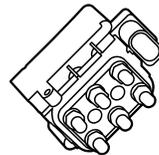
Compressors



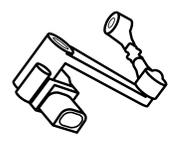
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors