Arnott®
Suspension Products

INSTALLATION MANUAL

ASE-4381
Arnott New eRide Electronic Air Strut
Bentley Bentayga (4V Chassis)

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. Remove applicable engine bay trim to gain access to the strut tower brace bolts. Remove the strut tower brace to gain access to the strut top mount bolts. (Figure 1)

FIGURE 1

2. Disconnect the electrical connector from the top of the strut. (Figure 2)

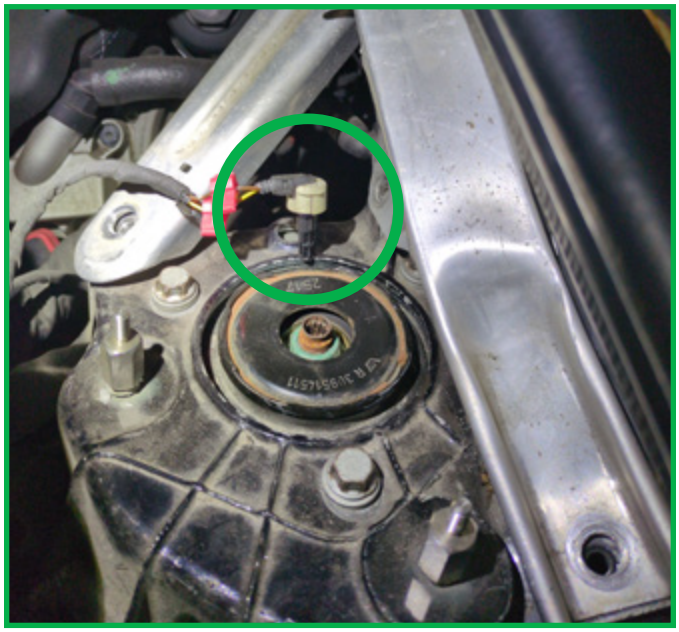


FIGURE 2

3. Raise the vehicle.
4. Disable the air suspension system per manufacturer's instructions.

5. Remove the applicable wheel. (Figure 3)

FIGURE 3

6. Remove the air line fitting. (Figure 4)

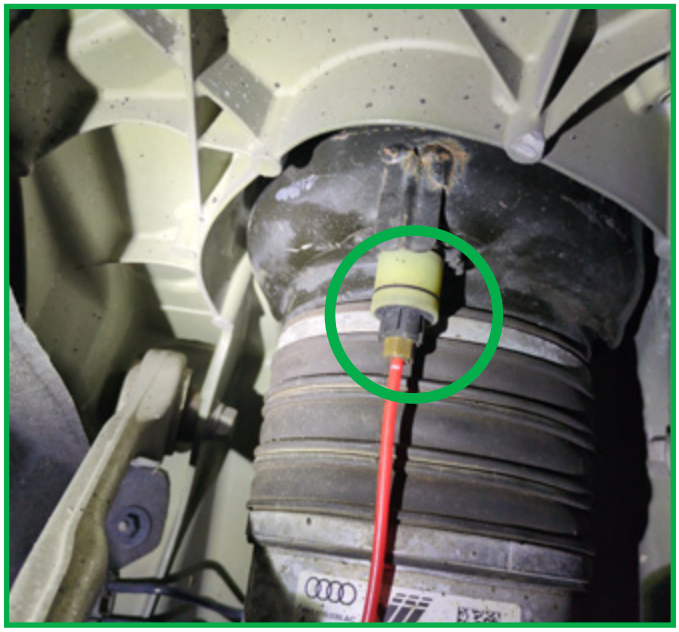


FIGURE 4

7. Disconnect the ride height sensor arm from the lower control arm. (Figures 5, 6)

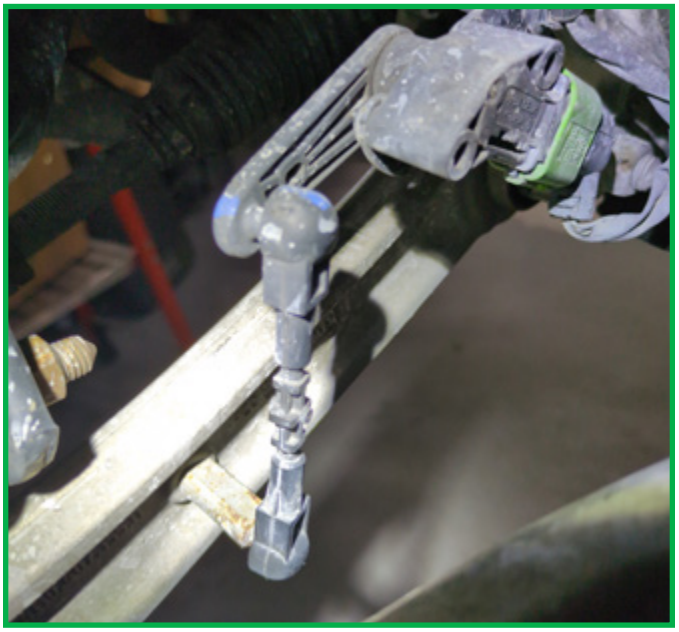


FIGURE 5

FIGURE 6

8. Un-route the wheel sensors wire harness and the brake line from the brackets on the spindle. (Figure 7, 8)

FIGURE 7

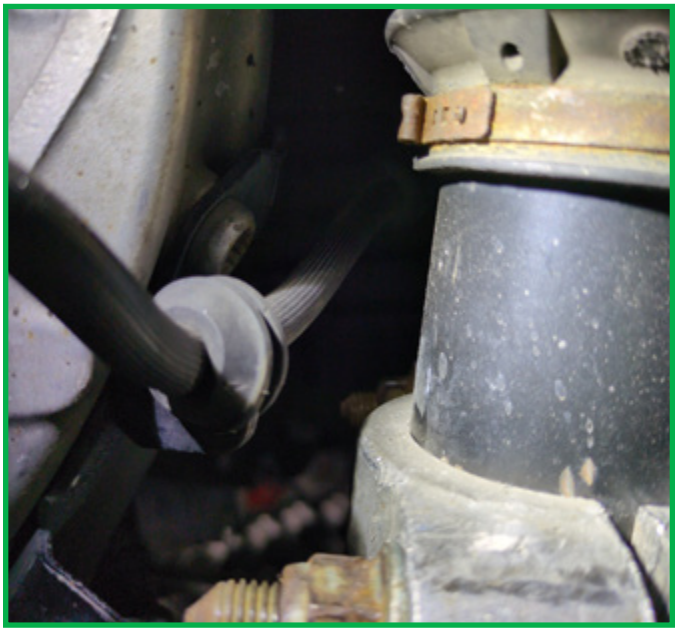


FIGURE 8

9. Remove the upper control arms bolt and disconnect the ball joints from the spindle. (Figure 9)

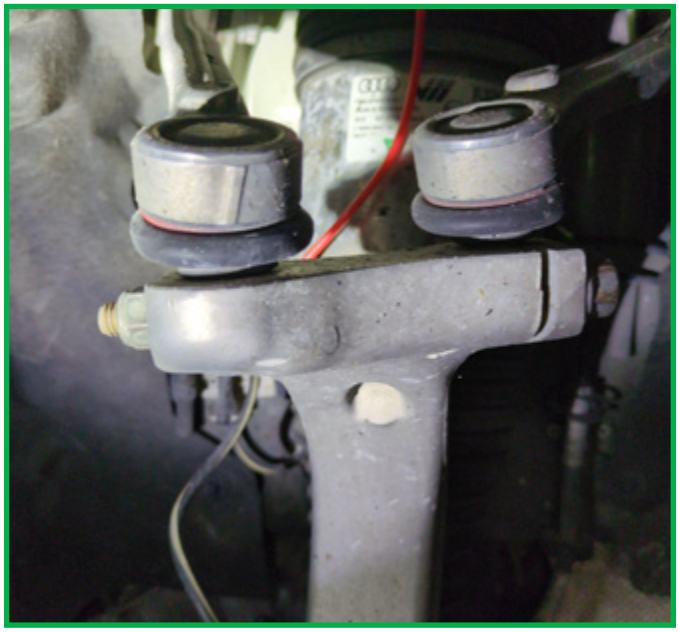


FIGURE 9

10. Disconnect the sway bar link from the lower strut mount. (Figure 10)

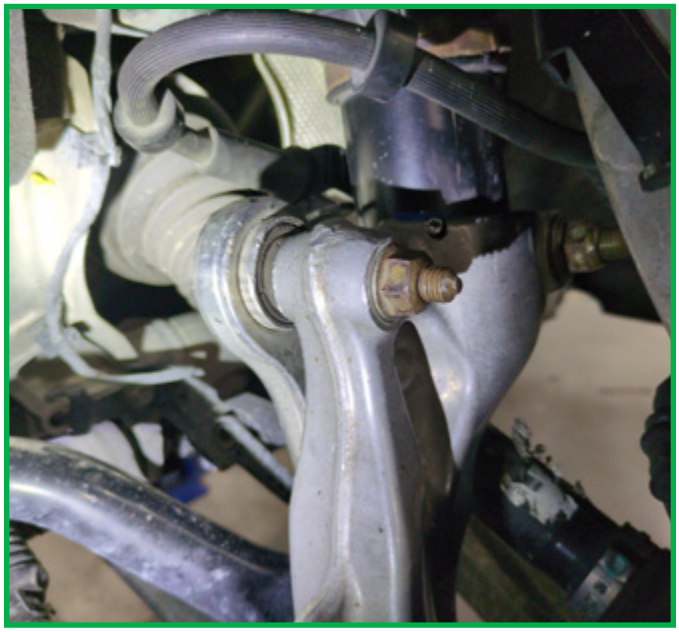


FIGURE 10

11. Remove the lower bolt from the lower strut mount. (Figure 11)

FIGURE 11

12. Remove the clamp bolt from the lower strut mount. (Figure 12)

FIGURE 12

13. Use an appropriate tool to spread the clamp and remove the lower strut mount from the strut. (Figure 13)

FIGURE 13

14. Remove the three top mount bolts and remove the strut from the vehicle. (Figure 14)

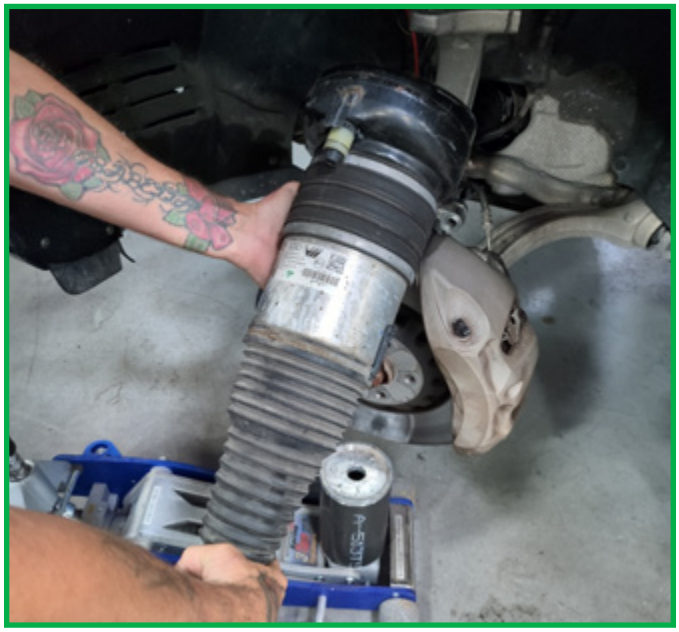


FIGURE 14

15. Removal complete.

eRide AIR STRUT INSTALLATION

WARNING:

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

1. Install the new Arnott strut into the vehicle. Loosely thread one of the bolts in to secure the strut in place. (Figures 15, 16, 17)

FIGURE 15

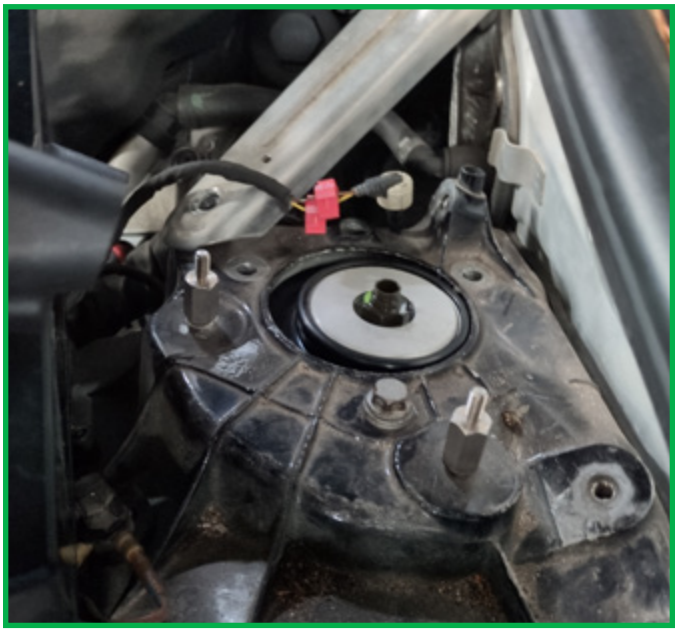


FIGURE 16

FIGURE 17

2. Spread the clamp and seat the strut into the lower strut mount. Loosely install the bolt but do not fully tighten at this time. (Figure 18)

FIGURE 18

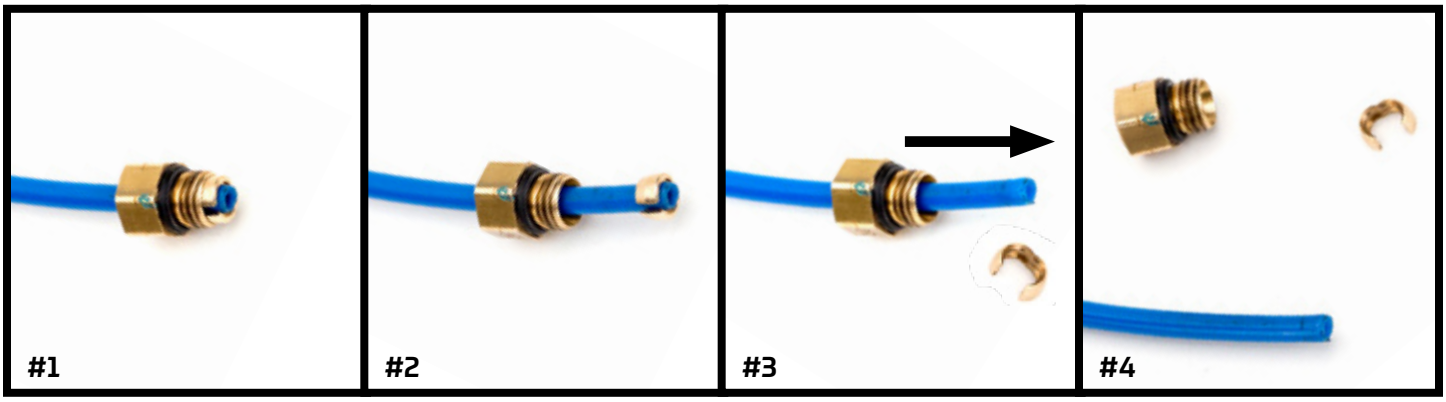
3. Connect the upper control arm ball joints to the spindle, tighten hardware to manufacturer's specifications. Install the included air fitting into the air valve and insert the air line. (Figure 19)

FIGURE 19

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.



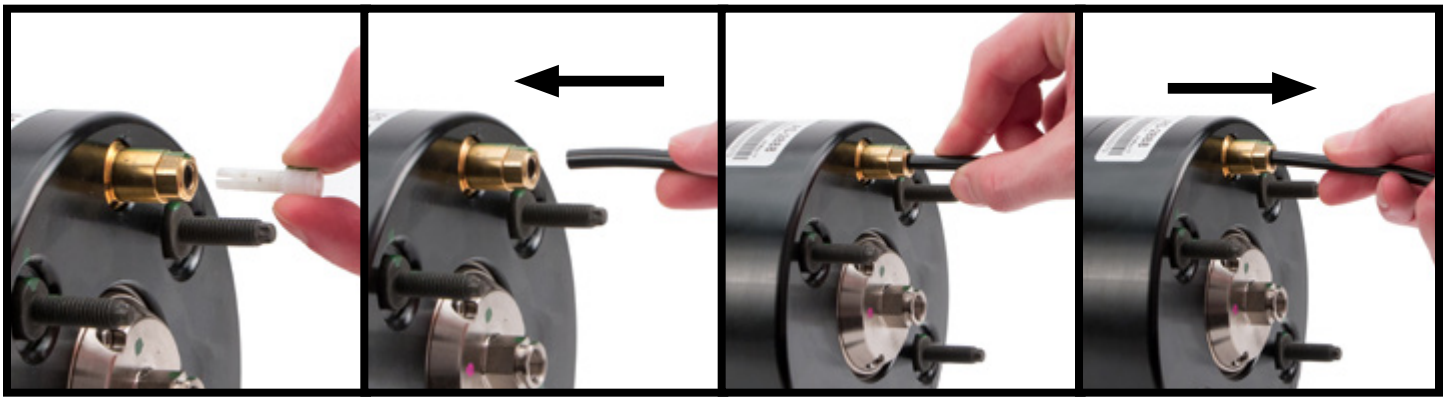
OE AIR LINE FITTING

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

SLIDE THE AIR FITTING OFF OF THE AIR LINE

DISCARD OE AIR LINE FITTING

INSTALLATION



REMOVE AND DISPOSE OF THE SHIPPING PIN.

INSERT AIR LINE INTO THE AIR LINE FITTING UNTIL IT STOPS.

AIR LINE INSERTED.

GENTLY PULL ON AIR LINE TO CONFIRM IT IS FULLY SECURED BY THE AIR LINE FITTING.

4. Connect the lower control arm to the lower strut mount. Do not tighten at this time. (Figure 20)

FIGURE 20

5. Connect the sway bar link to the lower strut mount. Do not fully tighten at this time. (Figure 21)

FIGURE 21

6. Using an appropriate jack, raise the wheel hub to normal trim height. Tighten the strut clamp, sway bar link, and lower strut mount to lower control arm bolts to manufacturer's specifications. (Figures 22, 23, 24)

FIGURE 22

FIGURE 23

FIGURE 24

7. Tighten the three top mount bolts to manufacturer's specifications. (Figure 25)

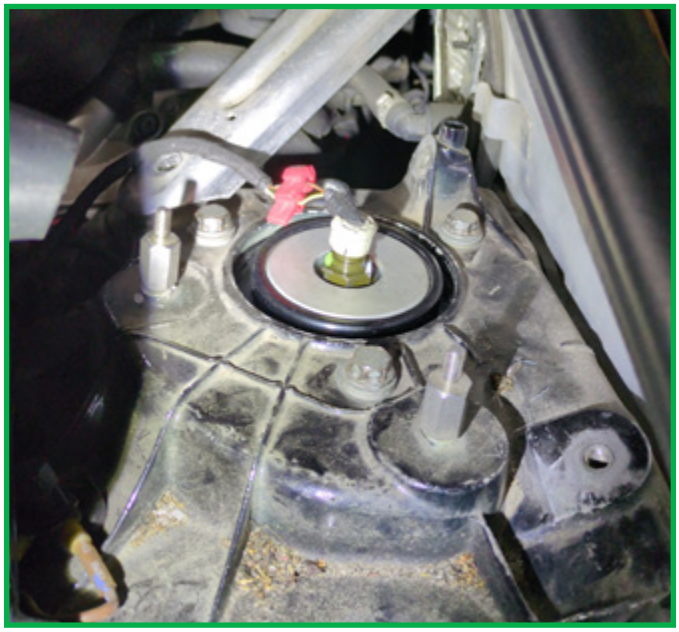


FIGURE 25

8. Connect the electrical connector at the top of the strut. Ensure the keyway in the connector is aligned properly to prevent damage to the connector. (Figure 26)

FIGURE 26

9. Reconnect the ride height sensor arm to the lower control arm. (Figure 27)

FIGURE 27

10. Re-route the brake line and wheel sensor harnesses to the brackets on the spindle. (Figure 28)

FIGURE 28

11. Install the wheel.
12. Reinstall the strut tower brace and engine trim.
13. Tighten all hardware to manufacturer's specifications.
14. Installation complete.

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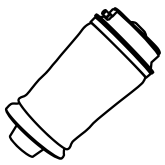
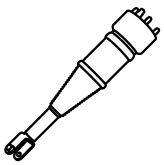
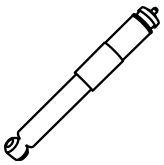
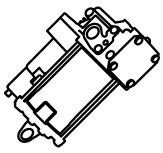
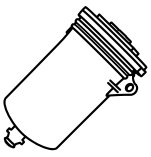
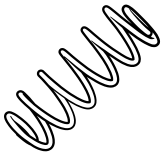

Air Springs

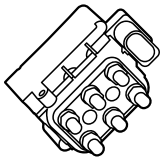

Struts

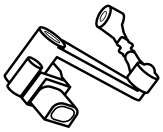

Shocks


Compressors


Dryers


Coil Spring Conversion Kits


Valve Blocks


Ride Height Sensors