

# Installation Manual

AS-3123  
ARNOTT  
NEW FRONT AIR STRUT  
2011-2018 AUDI A8 (D4)  
W/OUT SPORT



Congratulations on your purchase of an Arnott® air suspension product. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. 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, ASE Certified, 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.

**"Engineered to Ride, Built to Last®"**



**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.*

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling [800-251-8993](tel:800-251-8993) during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com).

## 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).*

- Not to be stored below 5°F (-15°C) or 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. RAISE VEHICLE.
3. REMOVE APPLICABLE FRONT WHEEL. (FIGURE 1)



FIGURE 1

4. REMOVE APPLICABLE ENGINE BAY TRIM TO ACCESS THE STRUT TOP BENEATH. (FIGURE 2)



FIGURE 2

5. LOCATE THE SHOCK TOWER AND BEGIN BY REMOVING APPLICABLE ENGINE BAY TRIM. (FIGURES 3, 4)



FIGURE 3



FIGURE 4

6. REFER TO OWNER'S MANUAL FOR SHOCK REMOVAL INSTRUCTIONS. REMOVE THE (4) NUTS SECURING THE STRUT IN PLACE. (FIGURE 5)

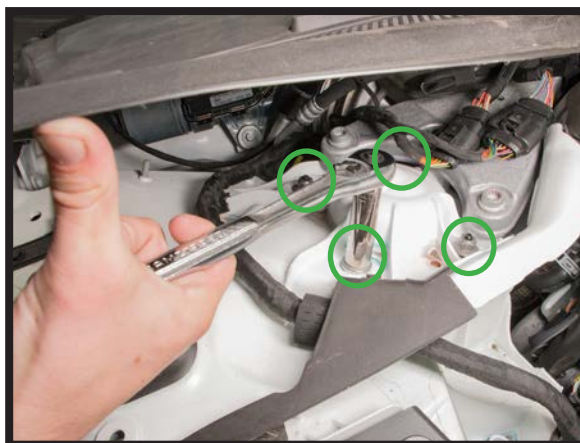


FIGURE 5

7. DISCONNECT ELECTRICAL CONNECTOR. (FIGURE 6)



FIGURE 6

8. DISCONNECT AIRLINE. (FIGURE 7, 8)



FIGURE 7



FIGURE 8

9. DISCONNECT RIDE HEIGHT SENSOR. (FIGURE 9, 10)



FIGURE 9

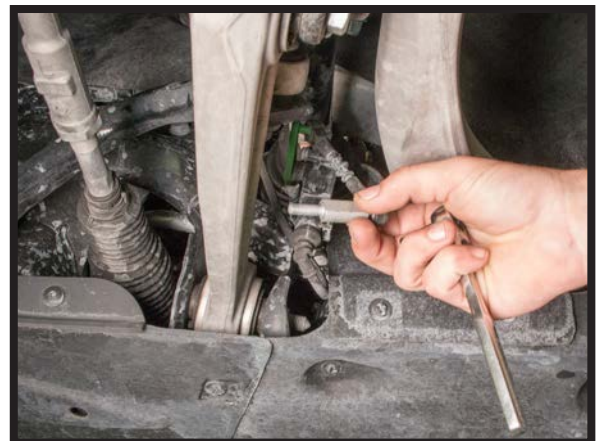


FIGURE 10

10. REMOVE RUBBER GROMMETS FROM SPINDLE ASSEMBLY. (FIGURE 11)

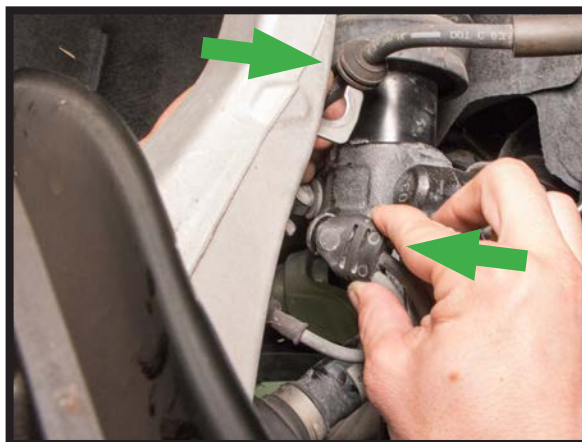


FIGURE 11

11. REMOVE SWAY BAR END LINK BOLT. (FIGURE 12, 13)

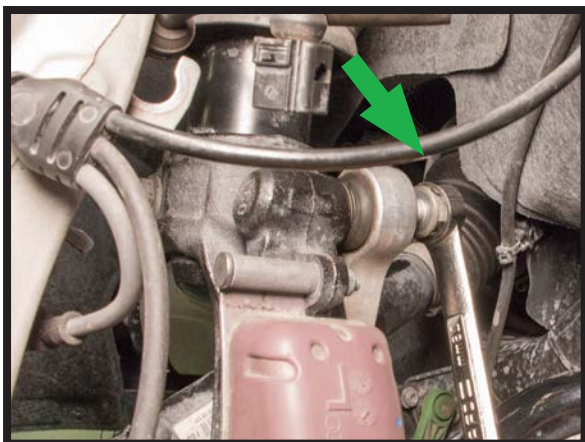


FIGURE 12

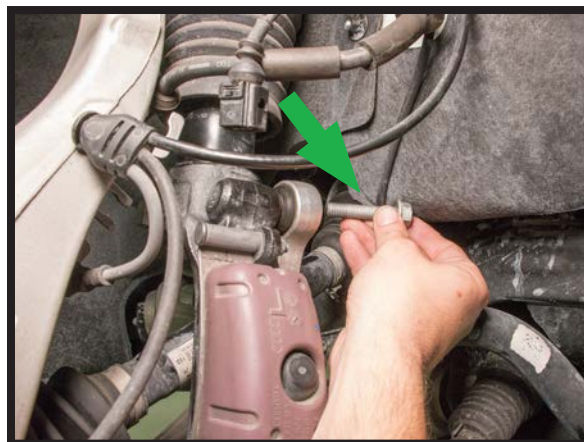


FIGURE 13

12. LOOSEN AND REMOVE THE UPPER CONTROL ARMS AND REMOVE SPINDLE BOLT. (FIGURES 14, 15)

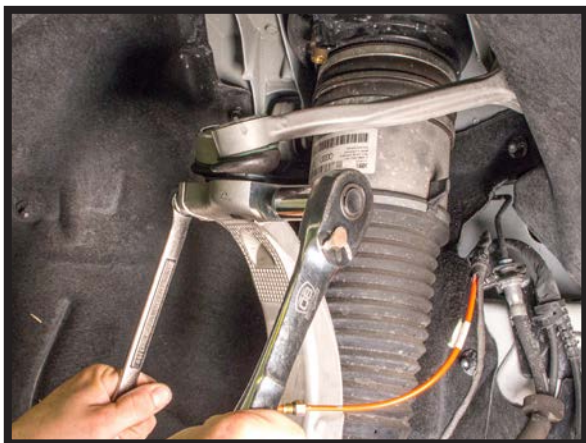


FIGURE 14



FIGURE 15

13. LOOSEN AND REMOVE SHOCK FORK PINCH BOLT. (FIGURE 16)



FIGURE 16

14. LOOSEN AND REMOVE THE LOWER SHOCK MOUNTING BOLT. (FIGURE 17, 18)

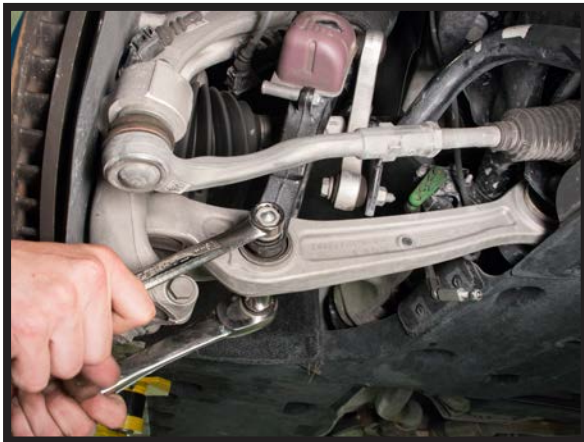


FIGURE 17



FIGURE 18

15. LIFT THE SHOCK UP AND OUT OF THE LOWER MOUNTING FORK. (FIGURE 19)

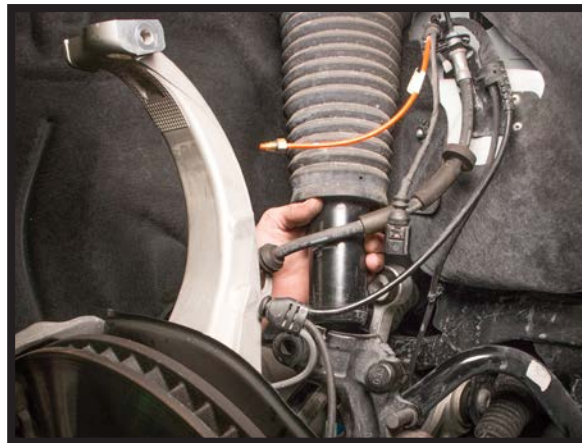


FIGURE 19

16. REMOVE FROM VEHICLE. (FIGURE 20)



FIGURE 20

17. REMOVAL COMPLETE.

## AIR STRUT INSTALLATION



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

1. INSTALL THE AIR STRUT INTO THE VEHICLE AND SEAT IT IN THE LOWER MOUNTING FORK. (FIGURES 21, 22)



FIGURE 21



FIGURE 22

2. INSTALL THE LOWER SHOCK MOUNTING BOLT AND TIGHTEN. (FIGURES 23, 24)



FIGURE 23



FIGURE 24

3. INSTALL AND TIGHTEN THE SHOCK FORK PINCH BOLT. (FIGURE 25)



FIGURE 25

4. REINSTALL THE SPINDLE BOLT AND TIGHTEN THE UPPER CONTROL ARMS. (FIGURES 26, 27)



FIGURE 26



FIGURE 27



5. INSTALL THE SWAY BAR END LINK BOLT. (FIGURE 28)



FIGURE 28

6. INSTALL THE RUBBER GROMMETS ONTO THE SPINDLE ASSEMBLY. (FIGURE 29)



FIGURE 29

7. RECONNECT THE RIDE HEIGHT SENSOR. (FIGURES 30, 31)

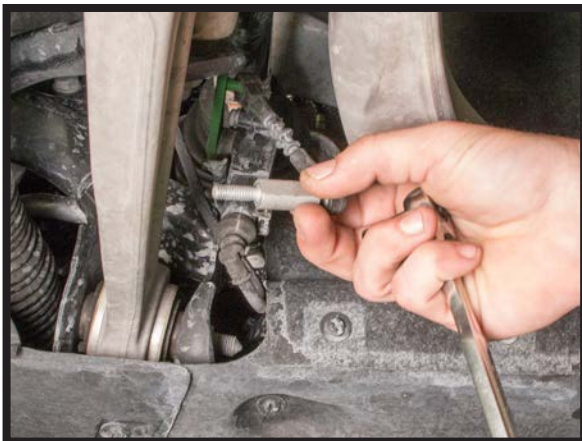


FIGURE 30



FIGURE 31

8. REMOVE PLUG FROM CHECK VALVE AND INSTALL PROVIDED VOSS FITTING SNUG TIGHT WITH A WRENCH THEN REMOVE SHIPPING PLUG FROM VOSS FITTING (FIGURES 32, 33, 34)



FIGURE 32



FIGURE 33



FIGURE 34

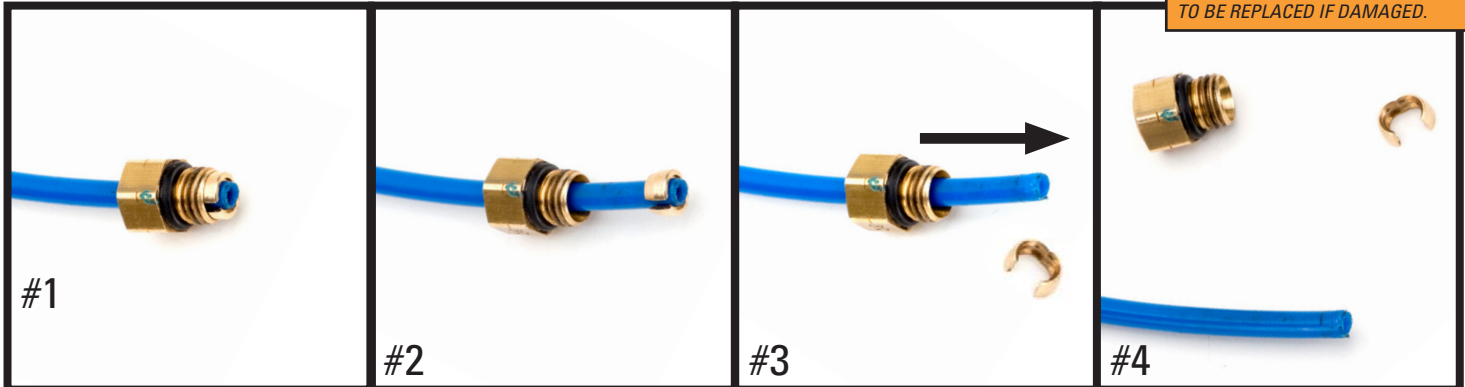
9. PREPARE AIR LINE BY REMOVING OLD VOSS FITTING USING THE FIGURE BELOW AS AN EXAMPLE. (FIGURE 35)

## REMOVAL



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

**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

AIR LINE IS READY FOR INSTALLATION

FIGURE 35

10. INSERT AIR LINE INTO NEW VOSS FITTING. PRESS AIR LINE IN FIRMLY UNTIL IT IS SEATED. (FIGURE 36)



FIGURE 36

11. RECONNECT ELECTRICAL CONNECTOR. (FIGURE 37)



FIGURE 37

12. USE THE PROVIDED SPACERS ON THE FOUR (4) TOP MOUNTS. ENSURE THE LIP OF THE SPACER FACES DOWN AND SEATS IN THE TOP MOUNT HOLE COMPLETELY BEFORE INSTALLING THE FOUR (4) TOP MOUNT NUTS AND TIGHTENING THEM TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 38, 39)



FIGURE 38

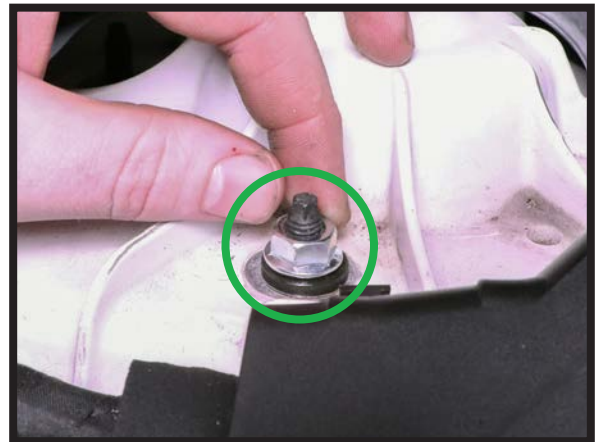


FIGURE 39

13. REINSTALL ENGINE BAY TRIM.
14. REINSTALL APPLICABLE FRONT WHEEL.
15. INSTALLATION COMPLETE.