

# Installation Manual

AS-3312  
ARNOTT  
REMANUFACTURED FRONT AIR STRUT  
AUDI A6/A7, S6/S7 (C7)



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** during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com). (In the EU please call +31 (0)73 7850 580 or email [info@arnotteurope.com](mailto:info@arnotteurope.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 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)

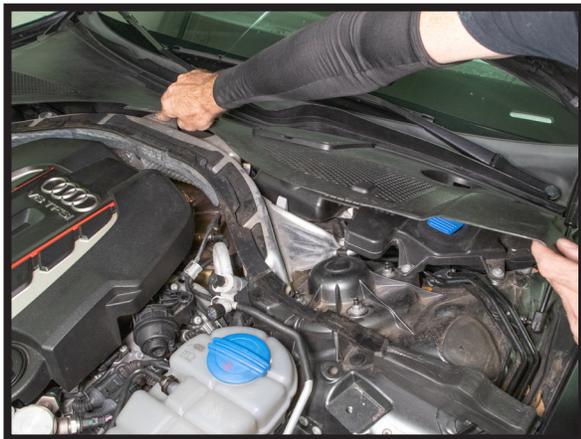


FIGURE 3



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

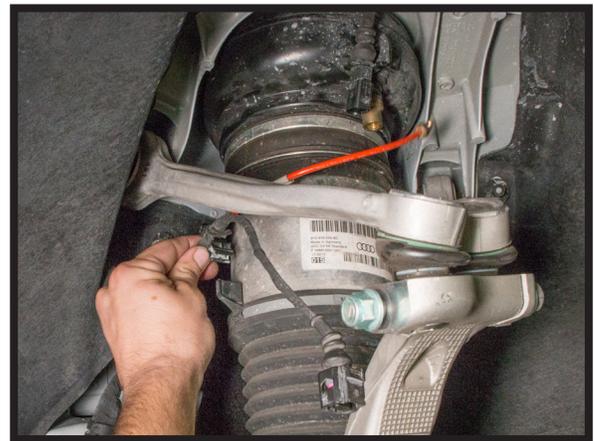


FIGURE 8

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



FIGURE 9

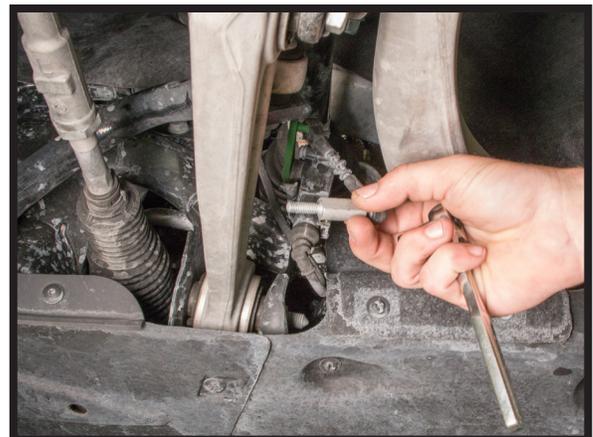


FIGURE 10

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



FIGURE 11

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

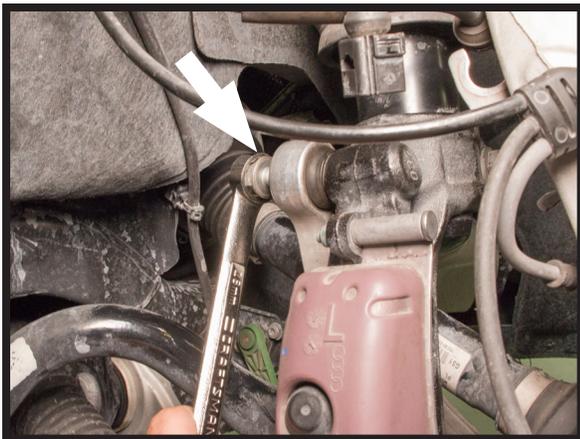


FIGURE 12



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)

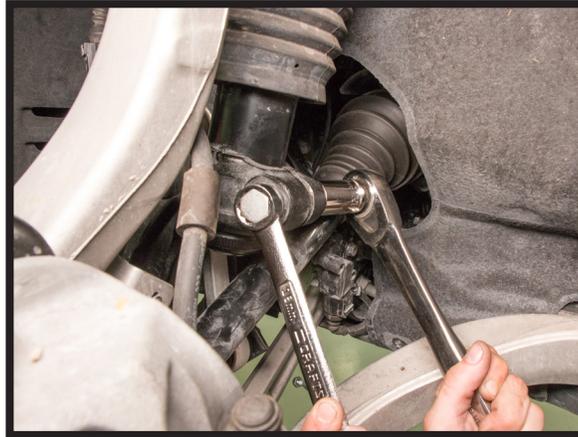


FIGURE 16

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

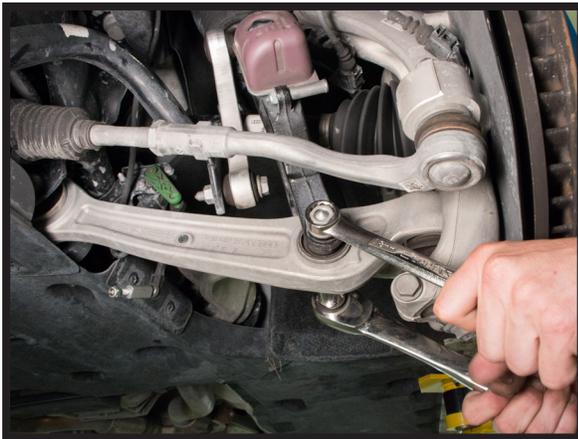


FIGURE 17

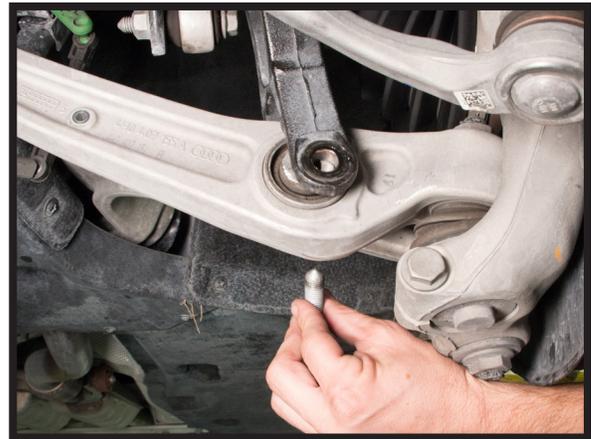


FIGURE 18

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

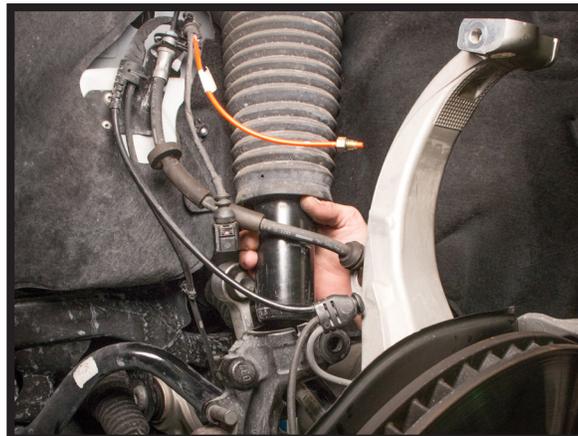


FIGURE 19

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)

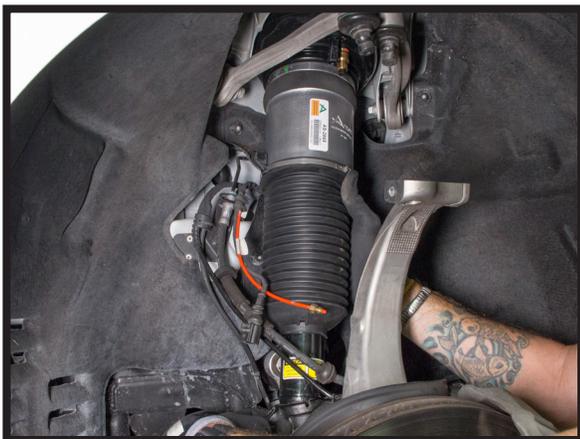


FIGURE 21



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. (FIGURES 28, 29)

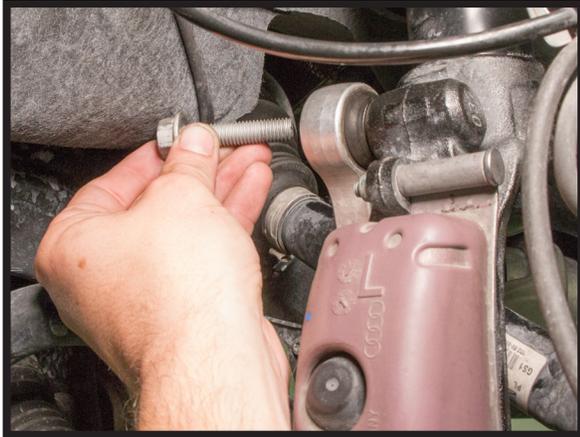


FIGURE 28

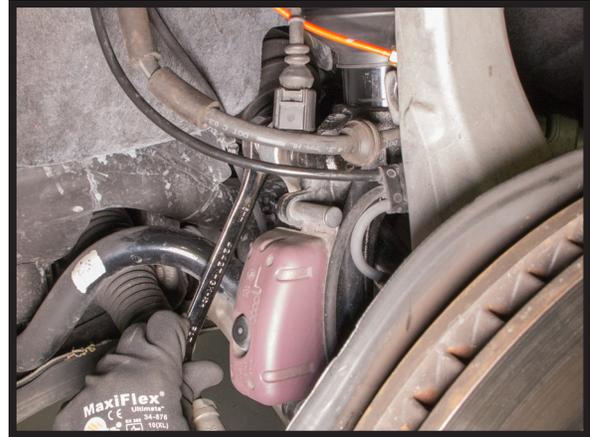


FIGURE 29

6. INSTALL THE RUBBER GROMMETS ONTO THE SPINDLE ASSEMBLY. (FIGURE 30)



FIGURE 30

7. RECONNECT THE RIDE HEIGHT SENSOR. (FIGURES 31, 32)

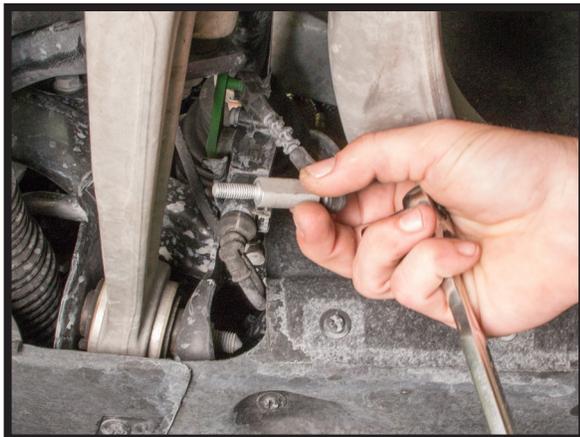


FIGURE 31



FIGURE 32

8. REMOVE PLUG FROM CHECK VALVE AND INSTALL PROVIDED VOSS FITTING AS PER TSB-7G. (FIGURES 33, 34)



FIGURE 33



FIGURE 34

9. RECONNECT ELECTRICAL CONNECTOR. (FIGURE 35)

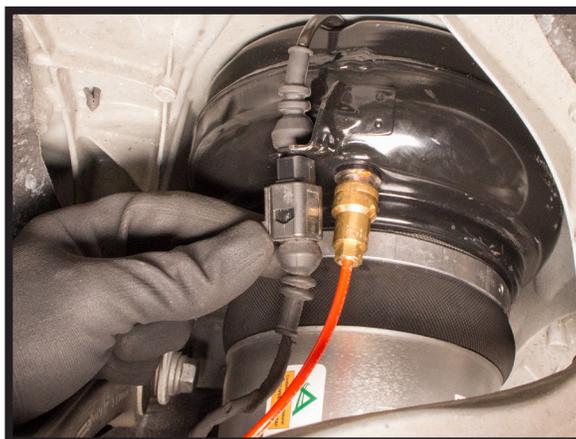


FIGURE 35

10. REFER TO OWNER'S MANUAL FOR SHOCK INSTALLATION INSTRUCTIONS. INSTALL THE (4) NUTS SECURING THE STRUT IN PLACE. (FIGURE 36)

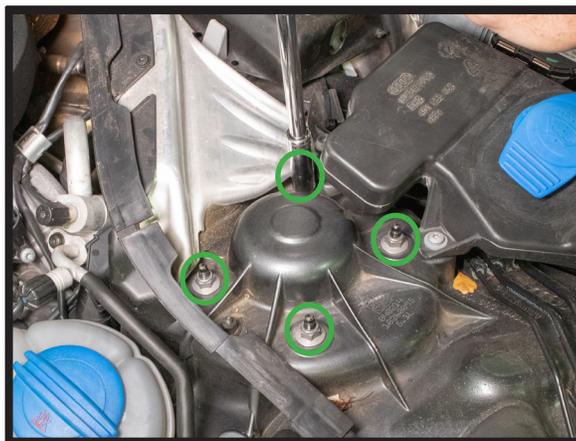


FIGURE 36

11. REINSTALL THE APPLICABLE ENGINE BAY TRIM. (FIGURES 37, 38)

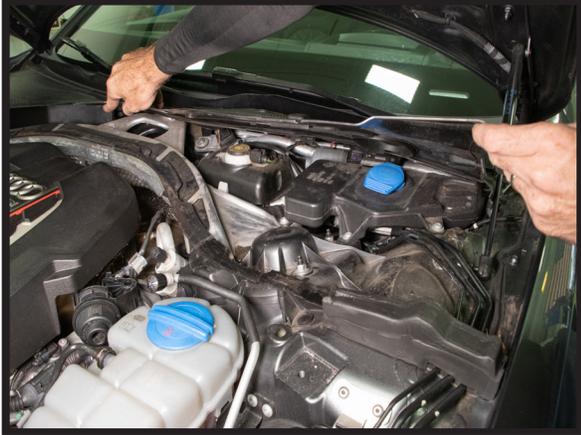


FIGURE 37



FIGURE 38

12. REINSTALL THE APPLICABLE ENGINE BAY TRIM. (FIGURE 39)



FIGURE 39

13. REINSTALL THE WHEEL.

14. INSTALLATION COMPLETE.