



# INSTALLATION MANUAL

## AS-3309 Arnott New Front Air Strut Audi A6/S6 (C7) & A7/S7 (4G)



**Engineered to Ride, Built to Last<sup>®</sup>**

# 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](http://www.arnottinc.com) and [www.arnotteurope.com](http://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.

# 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 tower. (Figures 2, 3, 4)



FIGURE 2



FIGURE 3



FIGURE 4

5. Disconnect electrical connector. (Figure 5)



FIGURE 5

6. Disconnect airline. (Figures 6, 7)



FIGURE 6



FIGURE 7

7. Disconnect ride height sensor (Figures 8, 9)



FIGURE 8

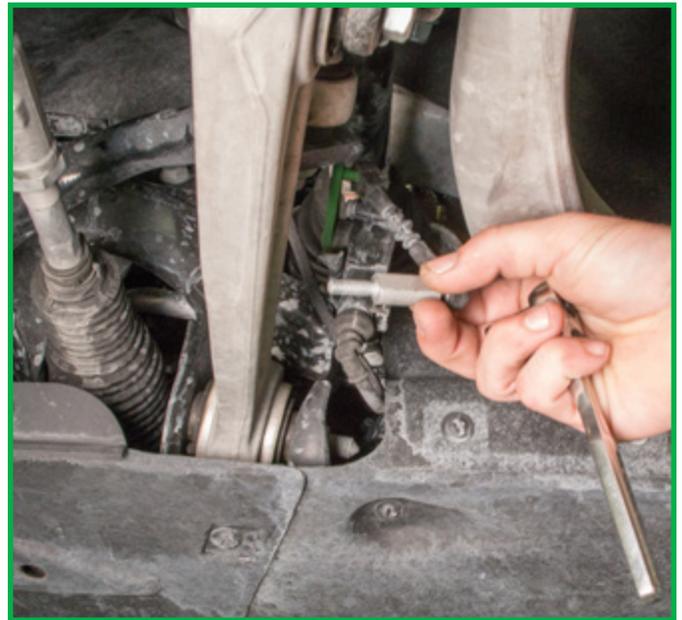


FIGURE 9

8. Remove rubber grommets from spindle assembly. (Figure 10)

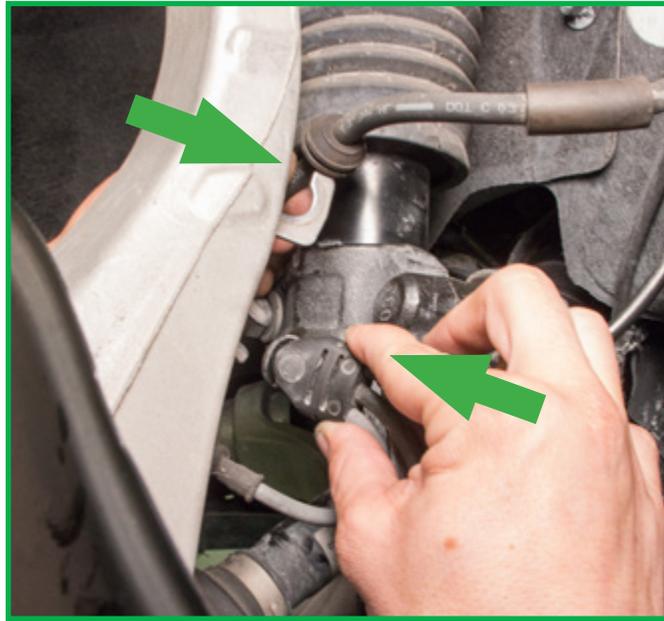


FIGURE 10

9. Remove sway bar end link bolt. (Figures 11, 12)

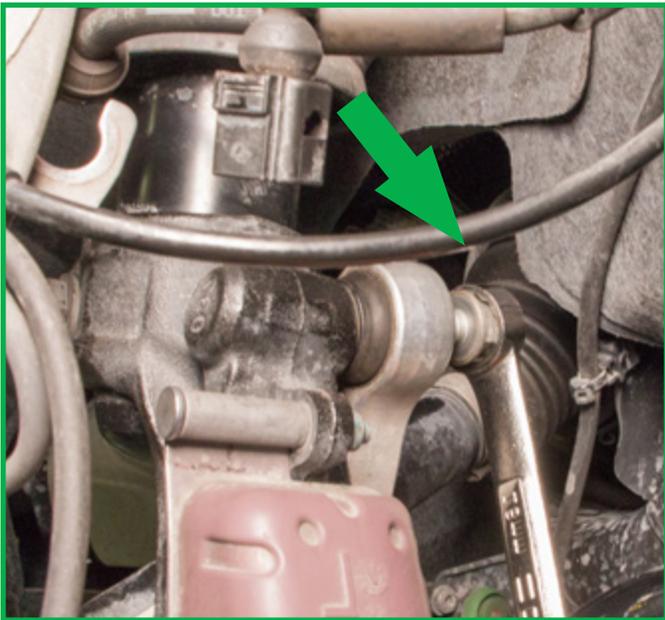


FIGURE 11



FIGURE 12

10. Loosen and remove the upper control arms and remove spindle bolt. (Figures 13, 14)



FIGURE 13



FIGURE 14

11. Loosen and remove shock fork pinch bolt. (Figure 15)



FIGURE 15

12. Loosen and remove the lower shock mounting bolt. (Figures 16, 17)



FIGURE 16



FIGURE 17

13. Spread the clevis with an appropriate tool and disconnect from the shock body. (Figure 18)

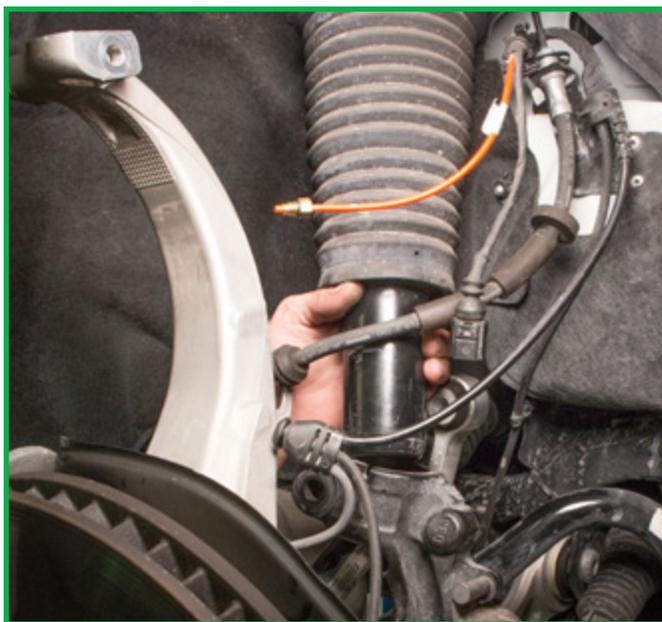


FIGURE 18

14. Remove the 4 top nuts. Disconnect the strut tower brace to gain access to the hidden top nut. (Figure 19)

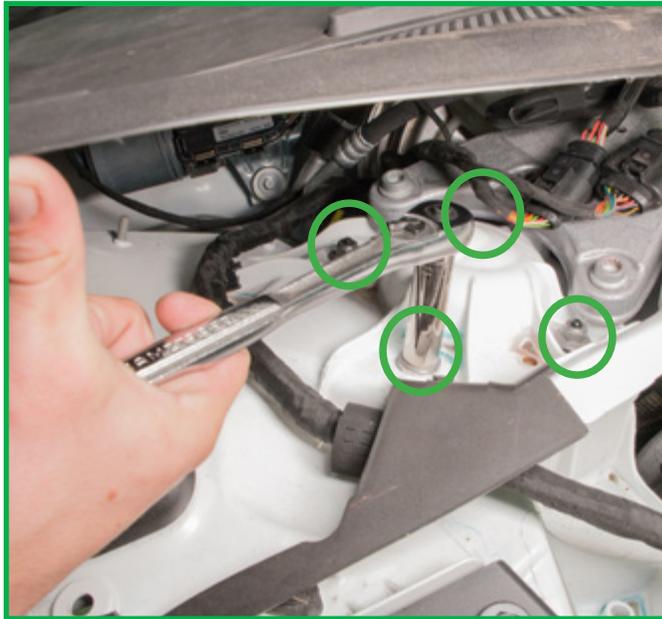


FIGURE 19

15. Remove from vehicle. (Figure 20)

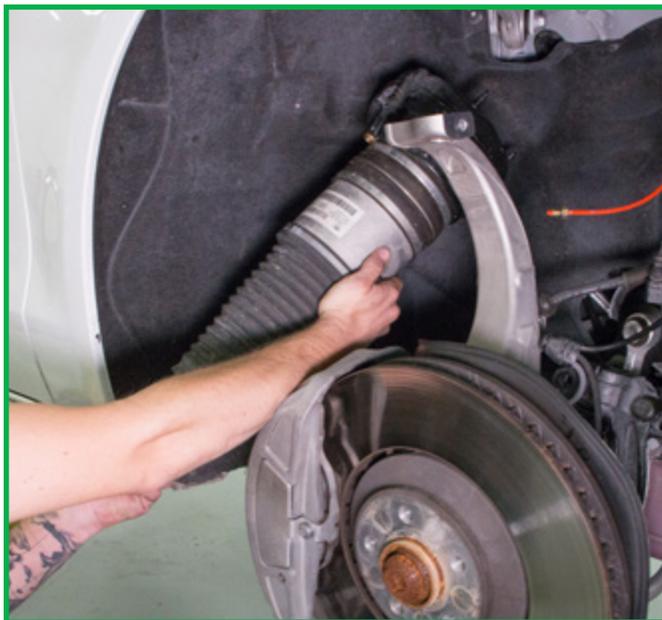


FIGURE 20

16. Removal complete.

# 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 on the top mount nuts to hold the strut in position. Seat the shock into the clevis. Attach the lower strut mount to the lower control arm with the bolt, do not tighten at this time. Use a jack to raise the wheel hub to normal trim height. (Figures 21, 22, 23)



FIGURE 21



FIGURE 22

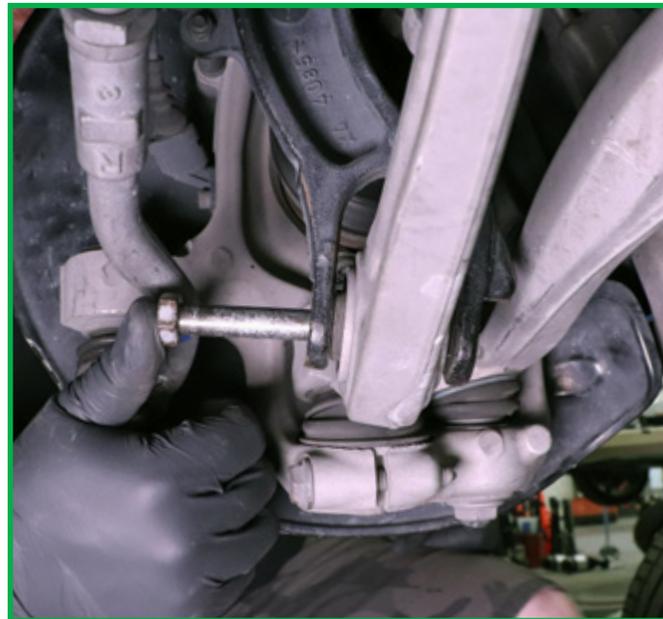


FIGURE 23

2. Tighten the lower strut mounting bolt to manufacturer's specifications. (Figures 24)



FIGURE 24

3. With the wheel hub at normal trim height, use an appropriate spreader to open the clevis to relieve any torsion on the strut. Install and tighten the pinch bolt to manufacturer's specifications. (Figure 25)



FIGURE 25

4. Connect the spindle and upper control arms. Tighten to manufacturer's specifications. (Figures 26, 27)



FIGURE 26



FIGURE 27

5. Install the sway bar end link bolt. (Figure 28)

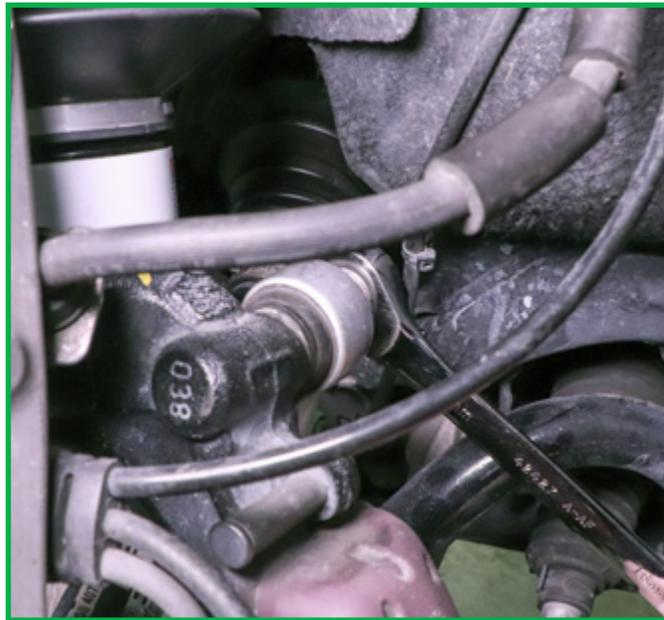


FIGURE 28

6. Install the rubber grommets onto the spindle assembly. (Figure 29)



FIGURE 29

7. Reconnect the ride height sensor. (Figures 30, 31)

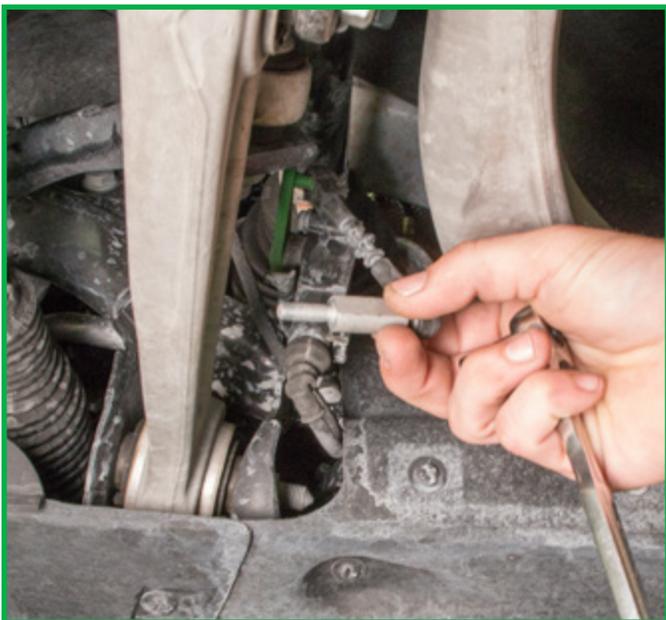


FIGURE 30



FIGURE 31

8. Remove the plug from valve check and install provided VOSS fitting snug tight with a wrench. Then remove shipping plug from VOSS fitting. (Figures 32, 33, 34)

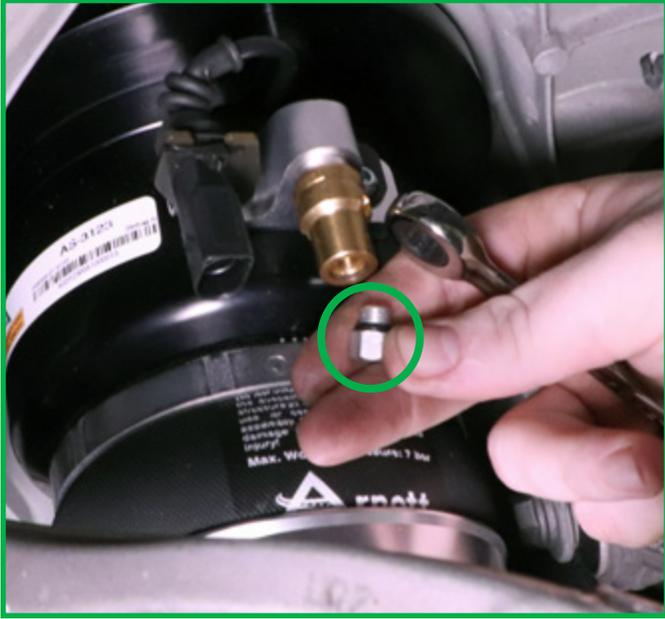


FIGURE 32

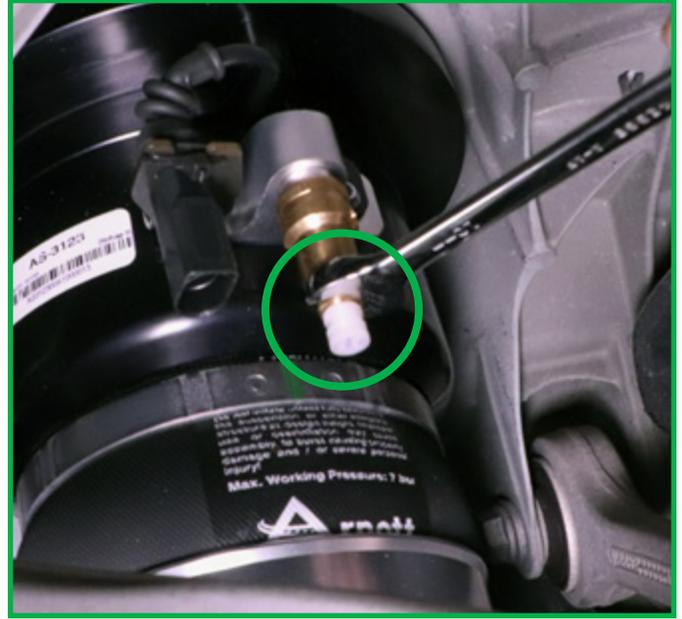


FIGURE 33



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 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.

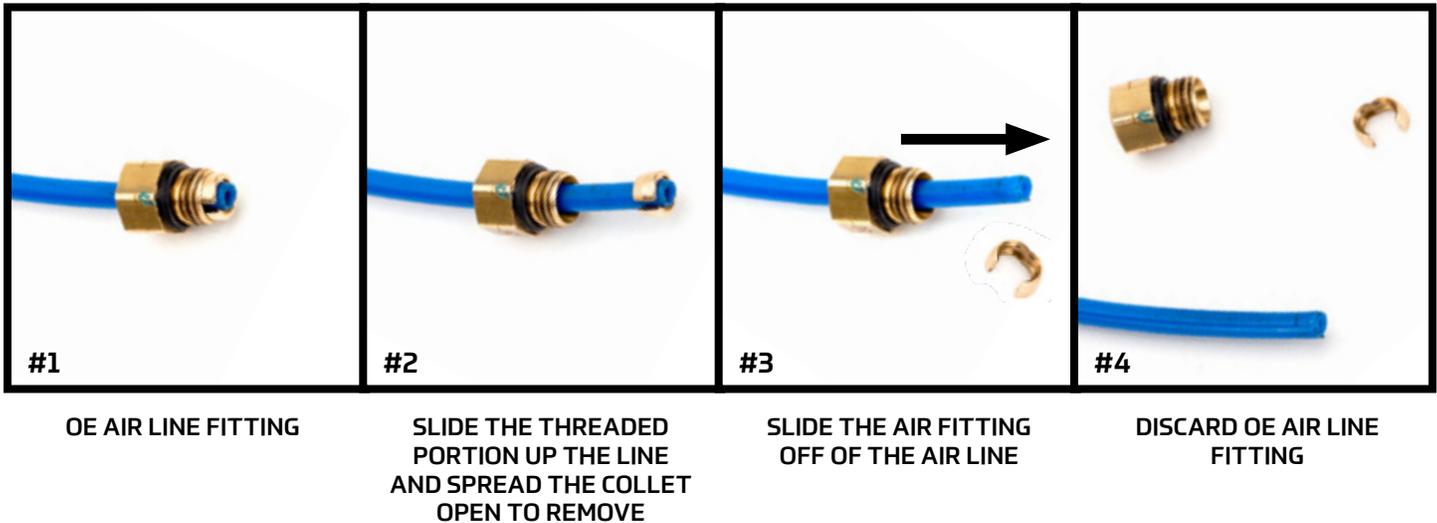


FIGURE 35

10. Insert air line into new VOSS fitting. Press airline in firmly until it is seated. (Figure 36)



FIGURE 36

11. Reconnect electrical connector. (Figure 37)

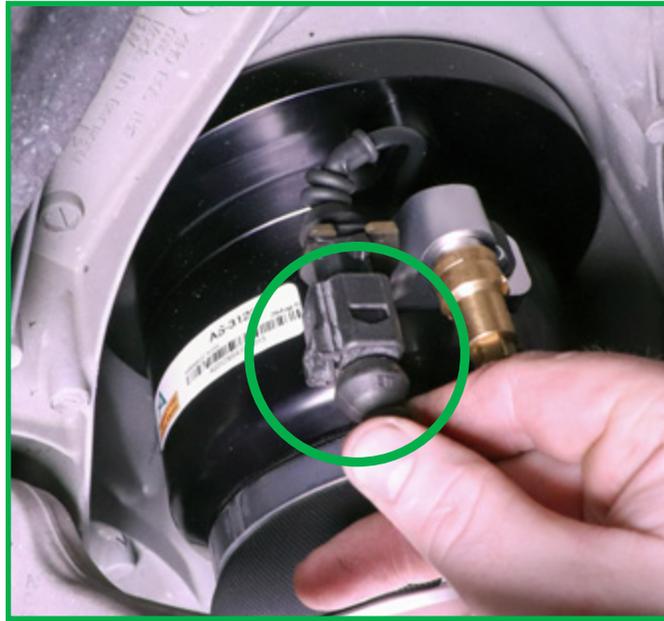


FIGURE 37

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

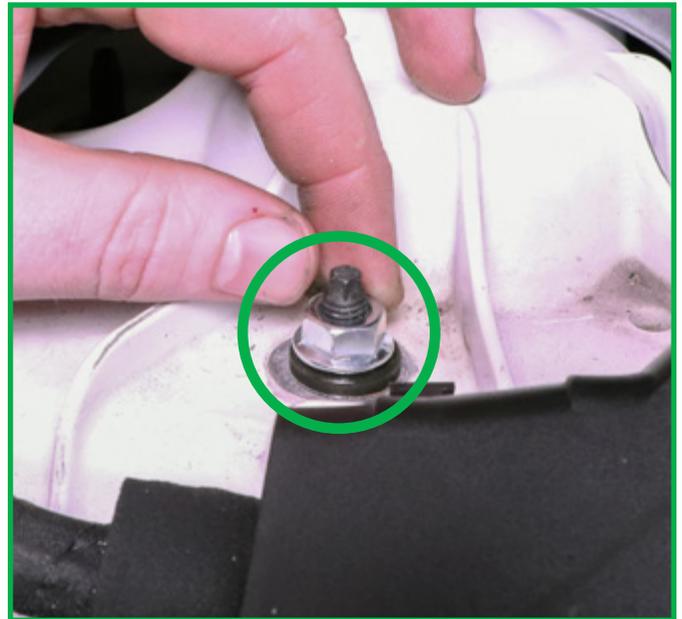


FIGURE 39

13. Reinstall the strut tower brace. Reinstall the engine bay trim.

14. Reinstall applicable front wheel.

15. Installation complete.

# Arnott®

## Suspension Products

### Arnott US Business Office:

[www.arnottinc.com](http://www.arnottinc.com)

100 Sea Ray Drive  
Merritt Island, FL 32953

**Call:** 800.251.8993

321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Industrieweg 19  
5145 PD, Waalwijk (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

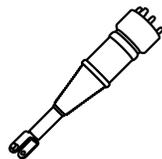
**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



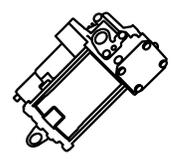
Air Springs



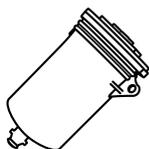
Struts



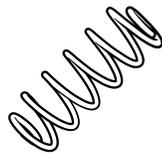
Shocks



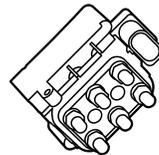
Compressors



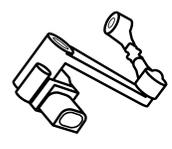
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors