



# INSTALLATION MANUAL

## ASE-3631 Arnott New Electronic Air Strut Porsche Macan (95B, w/Active Damping)



**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.

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. Set steering to straight ahead.
2. Raise vehicle.
3. Remove applicable front wheel. (Figure 1)



FIGURE 1

4. Disconnect electrical connector. (Figure 2)



FIGURE 2

5. Disconnect airline. (Figure 3)



FIGURE 3

6. Disconnect the upper control arms from the wheel carrier. (Figures 4, 5)



FIGURE 4

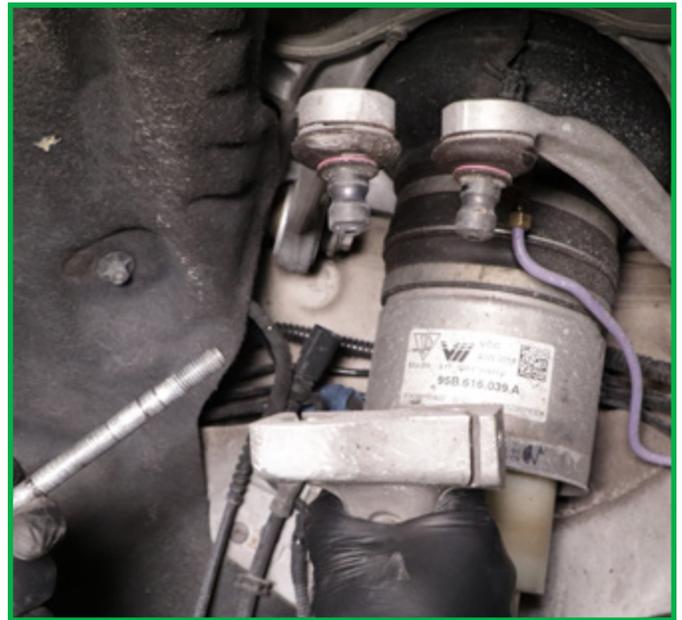


FIGURE 5

7. Remove the lower fork mount pinch bolt and sway bar end link bolt. (Figures 6, 7, 8, 9)

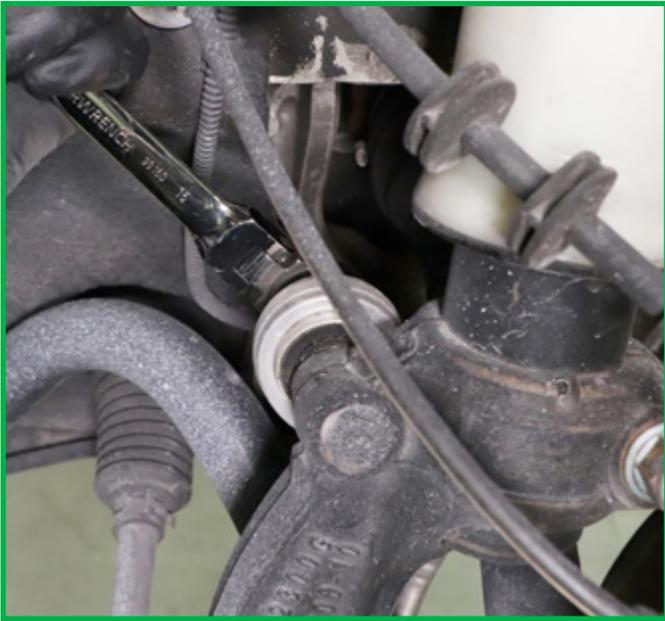


FIGURE 6



FIGURE 7

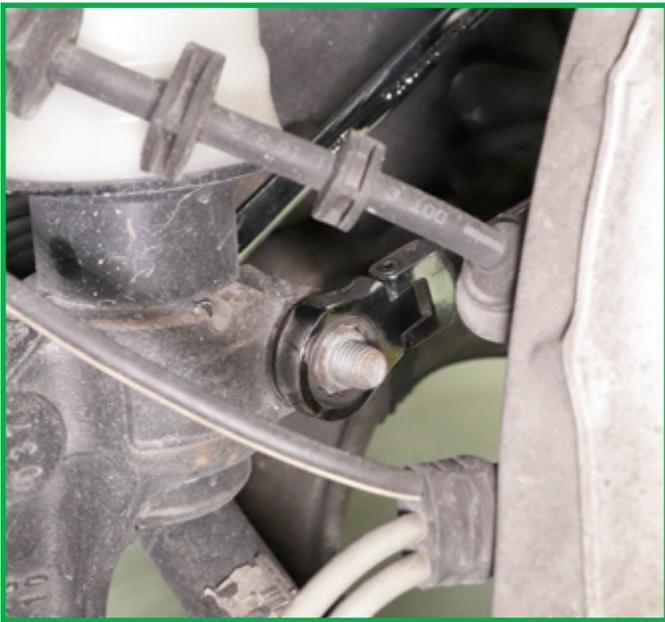


FIGURE 8



FIGURE 9

8. Remove the lower fork mounting bolt. (Figures 10, 11)



FIGURE 10



FIGURE 11

9. Disconnect and remove the lower fork mount from the strut. (Figure 12)

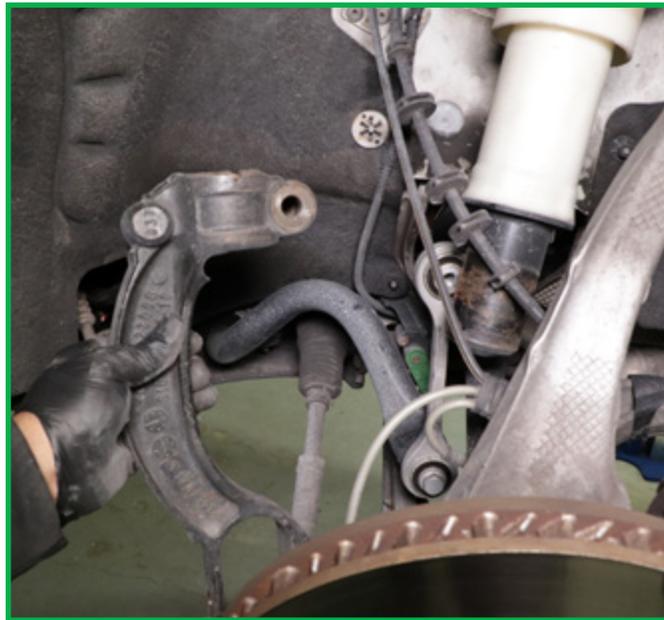


FIGURE 12

10. Loosen and move engine bay support bar for ease of access to top mount bolts. (Figures 13, 14, 15)

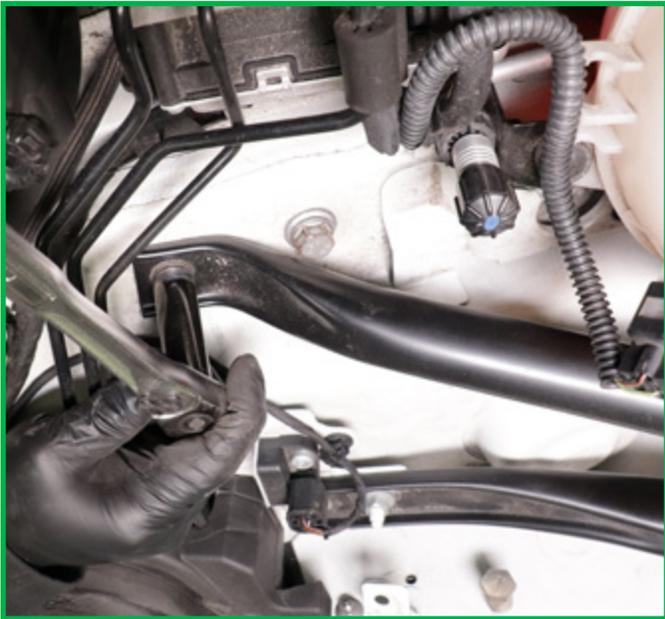


FIGURE 13



FIGURE 14



FIGURE 15

**NOTE:** Avoid contact with the battery terminal closest to the top mount bolts.

11. Remove the four (4) top mount bolts. (Figures 16, 17, 18, 19)

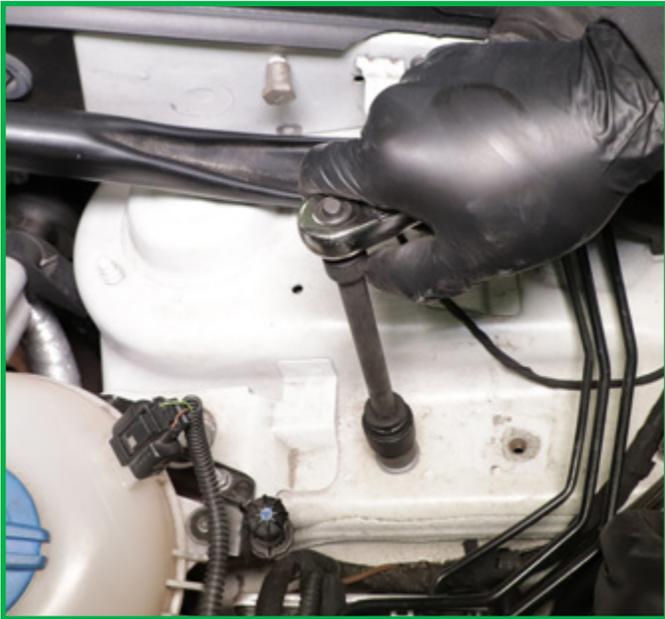


FIGURE 16



FIGURE 17

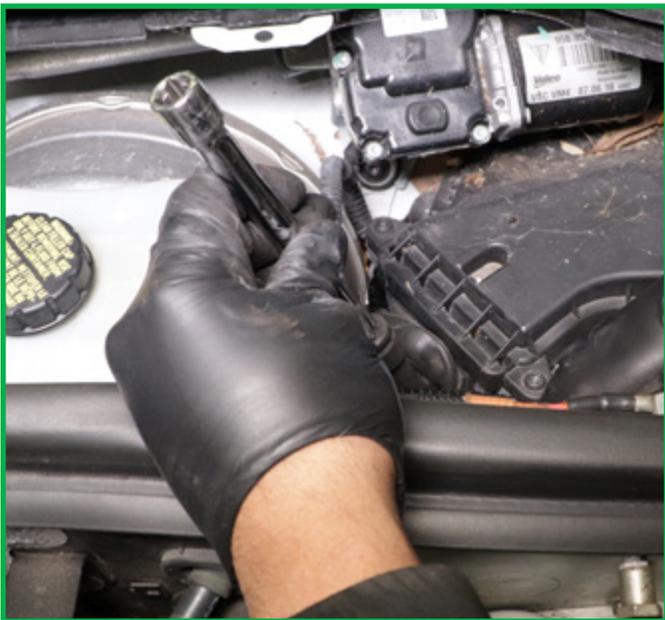


FIGURE 18



FIGURE 19

12. Remove the strut assembly from vehicle. (Figure 20)



FIGURE 20

13. Remove the rubber isolator and four (4) nuts securing the top mount and control arms to the strut and separate. (Figures 21, 22, 23)



FIGURE 21



FIGURE 22



FIGURE 23

14. Removal complete.

## AIR STRUT INSTALLATION



**WARNING:**

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

1. Install the top mount and rubber isolator on to the new Arnott strut. Tighten to manufacturer's specifications. (Figures 24, 25, 26)



FIGURE 24



FIGURE 25

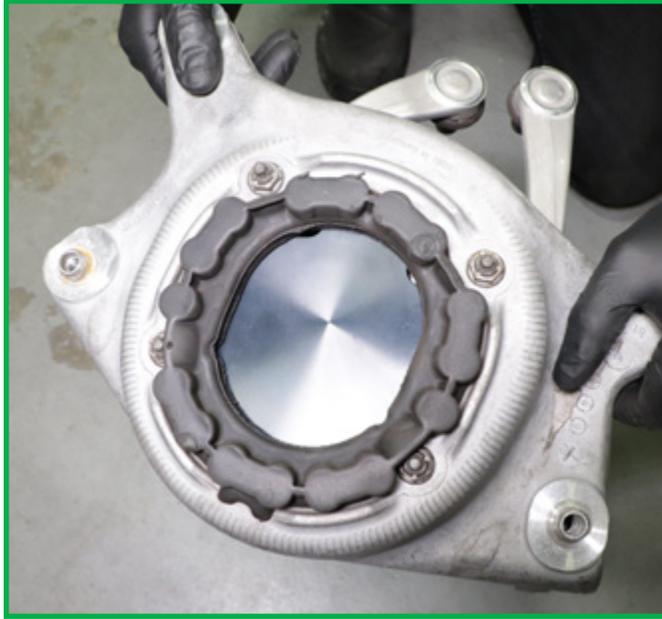


FIGURE 26

2. Install the new strut assembly on the vehicle. (Figure 27)



FIGURE 27

3. Install the four (4) top mount bolts. Tighten to manufacturer's specifications. (Figures 28, 29)



FIGURE 28



FIGURE 29

4. Reinstall the engine bay support bar. Tighten to manufacturer's specifications. (Figures 30, 31)



FIGURE 30



FIGURE 31

5. Install the lower fork mount, pinch bolt, and sway bar end link bolt. Tighten to manufacturer's specifications. (Figures 32, 33, 34)

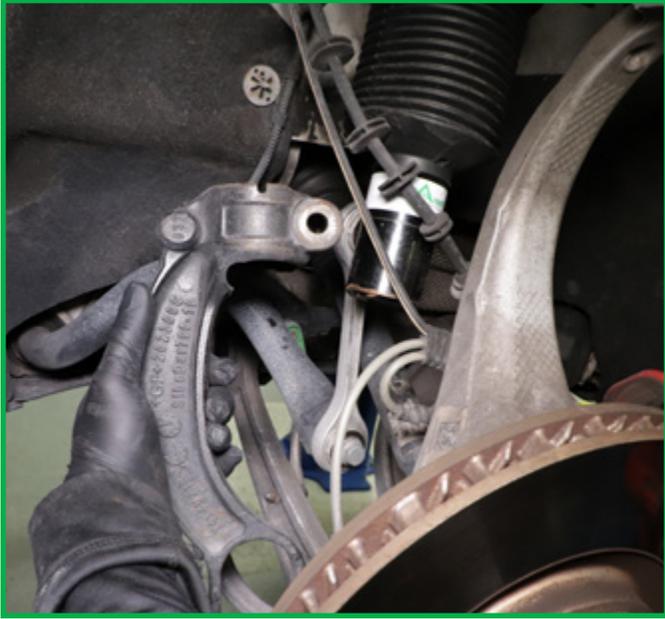


FIGURE 32



FIGURE 33



FIGURE 34

6. Install the lower fork mount bolt. Tighten to manufacturer's specifications. (Figure 35)



FIGURE 35

7. Connect the upper control arms to the wheel carrier and install the pinch bolt. (Tighten to manufacturer's specifications. (Figures 36, 37, 38)



FIGURE 36

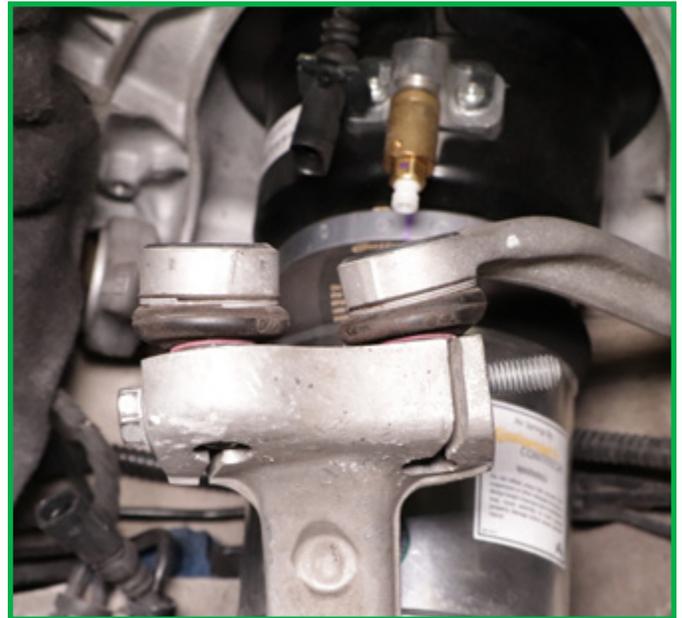


FIGURE 37



FIGURE 38

8. Connect the electrical connection to the strut. (Figure 39)



FIGURE 39

9. Prepare air line by removing old VOSS fitting using the figure below as an example. (Figure 40)

## 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.

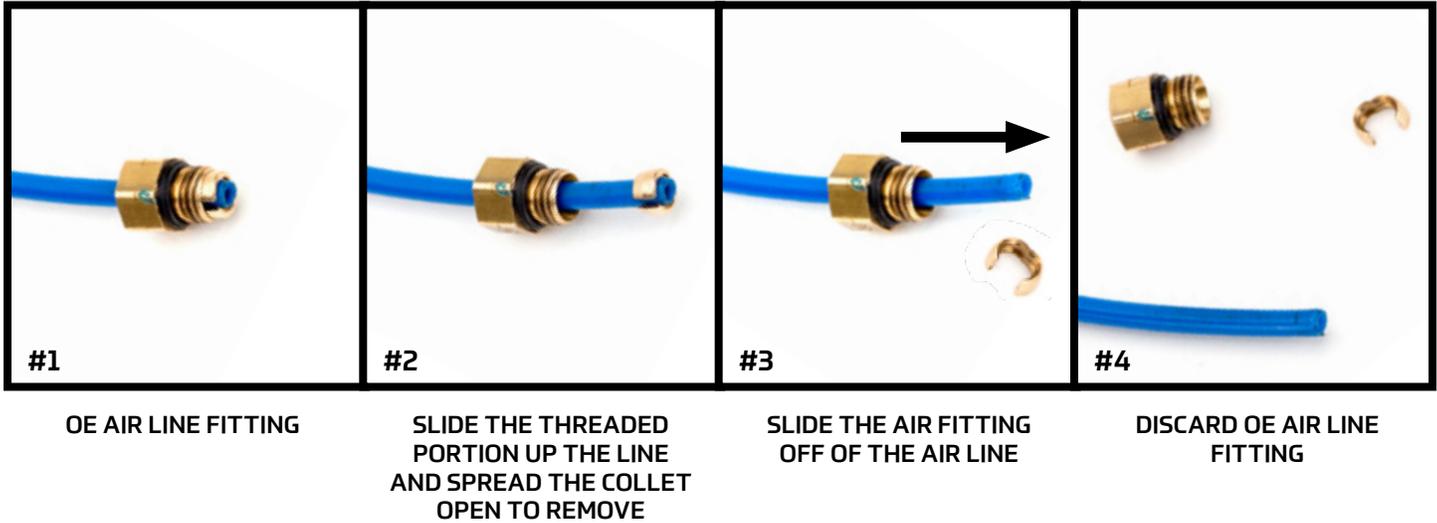


FIGURE 40

10. Insert air line into new VOSS fitting. Press air line in firmly until it is seated. (Figure 41)

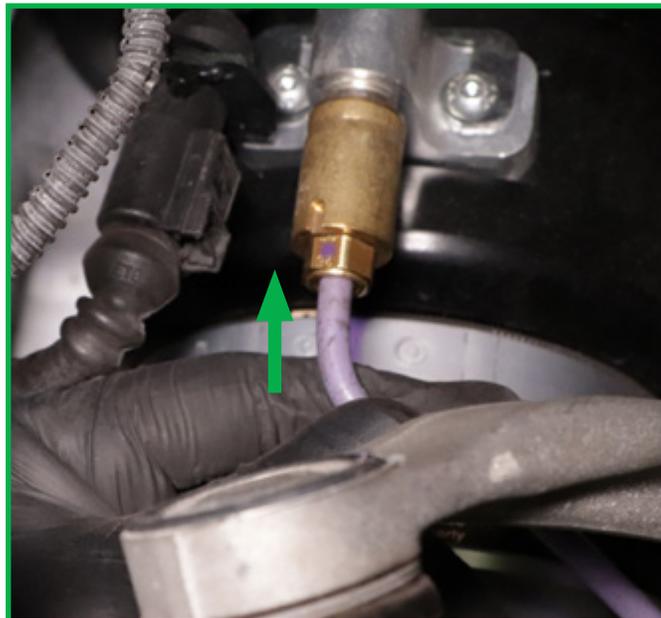


FIGURE 41

11. Reinstall the applicable front wheel.
12. Lower the vehicle.
13. 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)

Docterskampstraat 1E/1F, 3  
5222 AM 's-Hertogenbosch (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

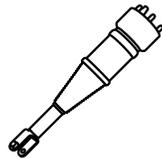
**ES Phone:** +34 91 901 10 56

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

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



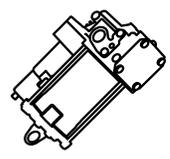
Air Springs



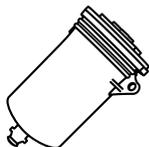
Struts



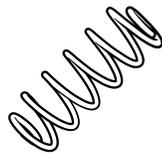
Shocks



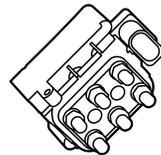
Compressors



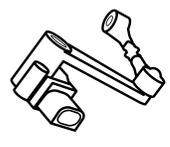
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors