



INSTALLATION MANUAL

AS-3346
Arnott New Front Left Air Strut
Porsche Panamera (970.1, w/ & w/o AWD)



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.

This vehicle contains 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.

DISCLAIMER:

The product shown in the installation steps below may look different than the part you are installing. The installation steps are the same, and all notices and warnings should be adhered to in the same manner.

AIR STRUT REMOVAL

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

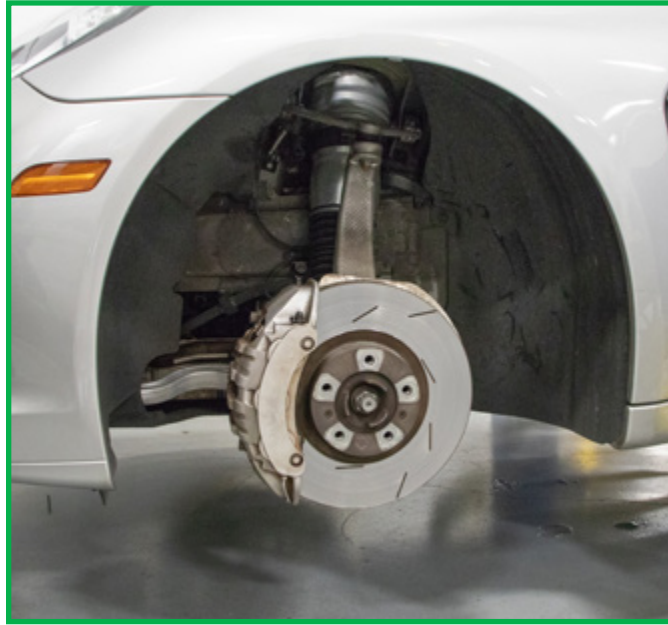


FIGURE 1

4. Remove the upper plastic cover that sits above the air strut. (Figure 2)



FIGURE 2

5. Disconnect the strut connector retaining clip and electrical connection. (Figures 3, 4)



FIGURE 3



FIGURE 4

6. Disconnect the top electrical plug. (Figure 5)

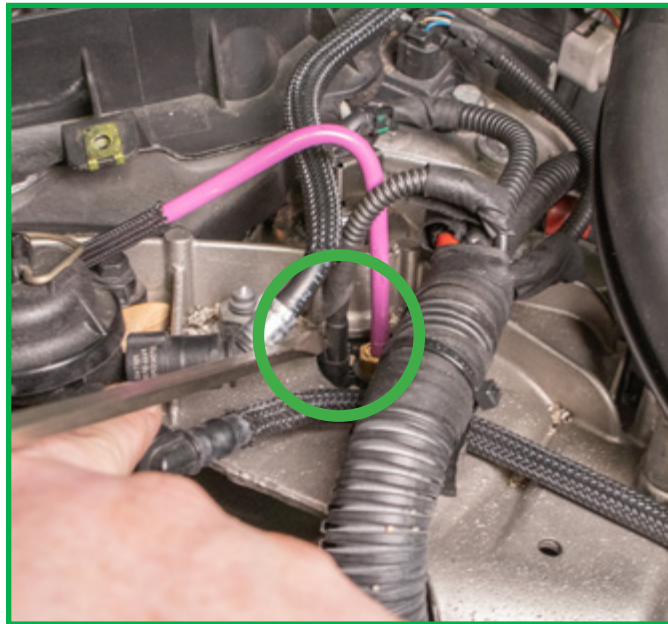


FIGURE 5

7. Disconnect the air line (Figure 6) and remove the air fitting using Figure 7 as an example.



FIGURE 6

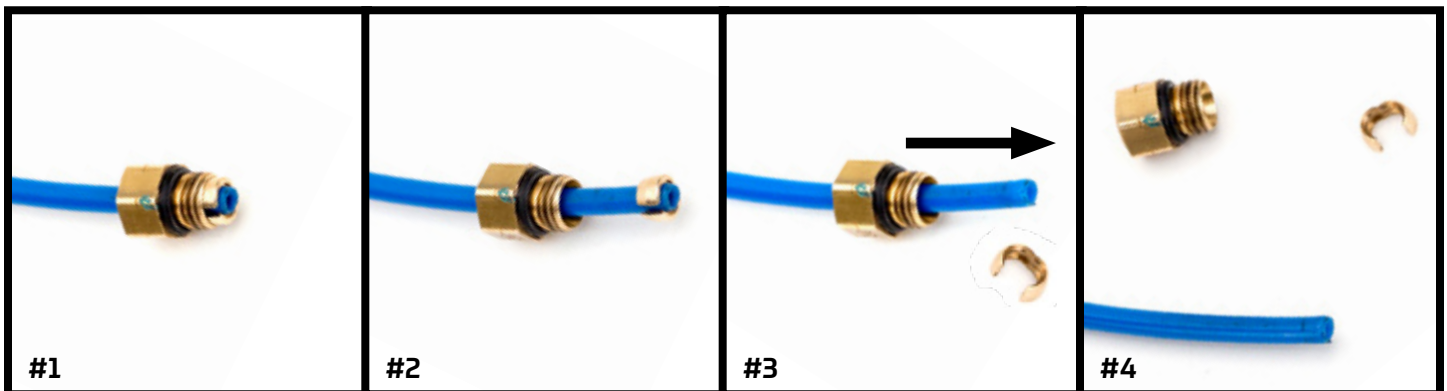
REMOVAL



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.



#1
OE AIR LINE FITTING

#2
SLIDE THE THREADED
PORTION UP THE LINE
AND SPREAD THE COLLET
OPEN TO REMOVE

#3
SLIDE THE AIR FITTING
OFF OF THE AIR LINE

#4
DISCARD OE AIR LINE
FITTING

FIGURE 7

8. Loosen and remove the three (3) top shock mount nuts. (Figure 8)

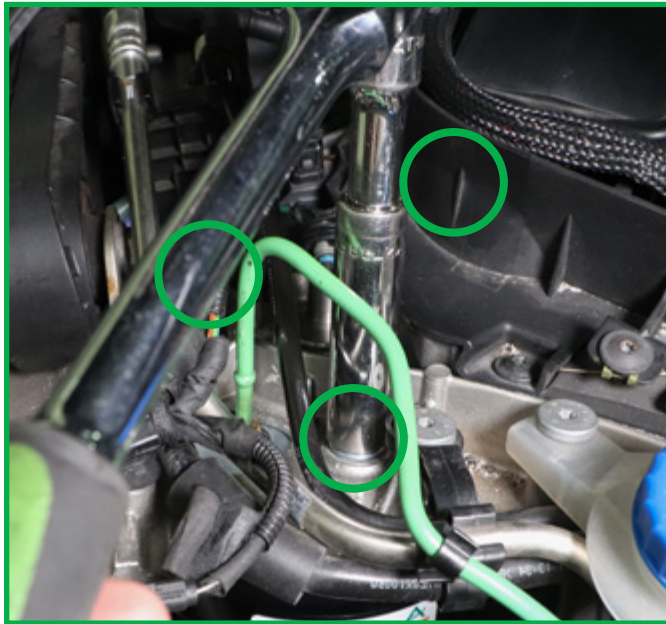


FIGURE 8

9. Disconnect the wheel speed sensor. (Figure 9)



FIGURE 9

10. Detach the wheel speed sensor wires from their retention brackets. (Figures 10, 11, 12)

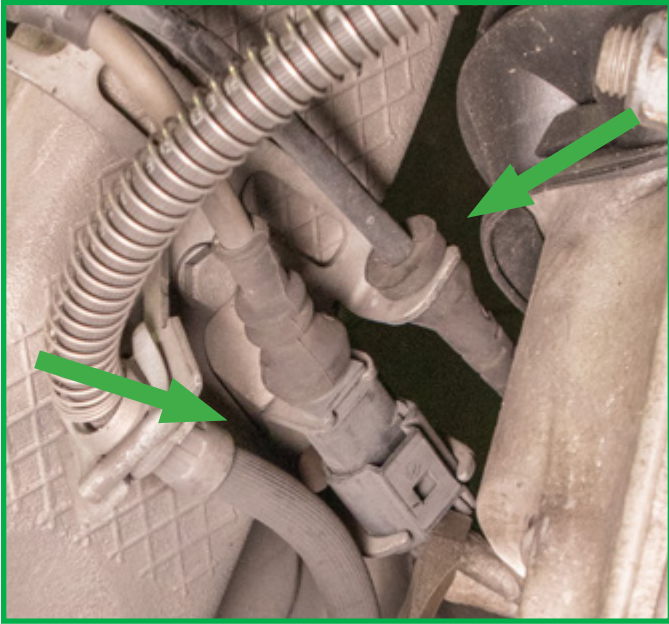


FIGURE 10

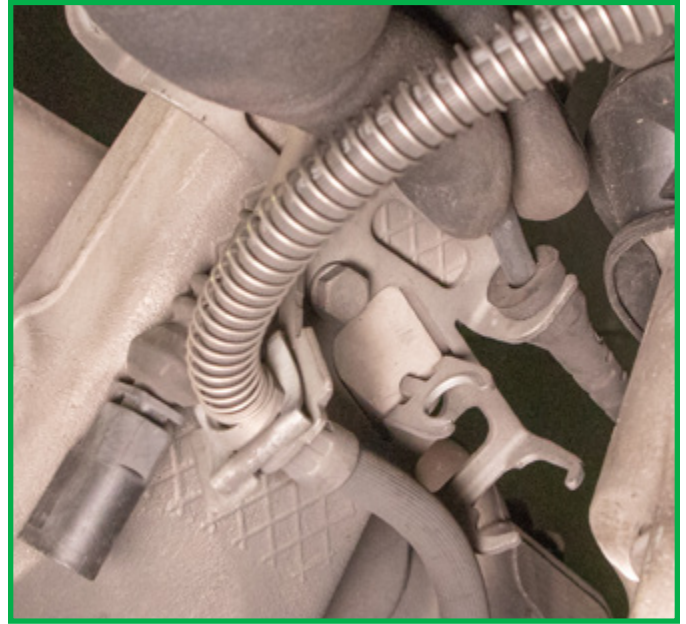


FIGURE 11



FIGURE 12

11. Loosen and remove the sway bar end link nut and separate from the strut. (Figure 13)

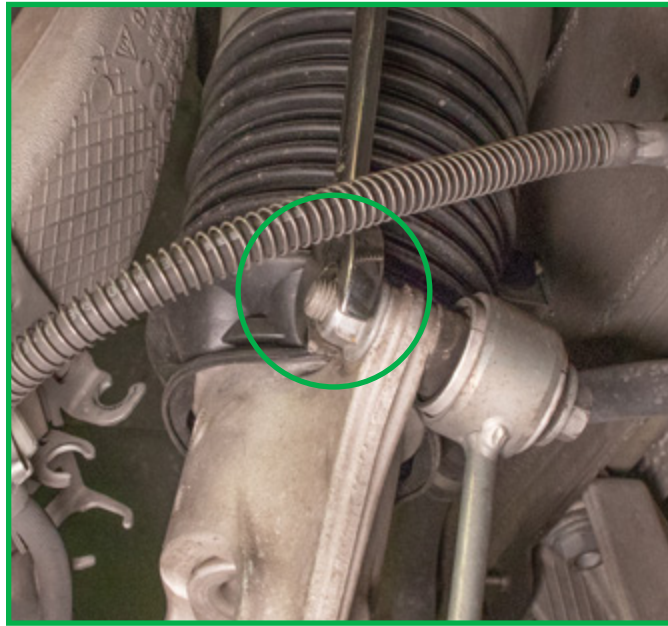


FIGURE 13

12. Loosen and remove the bottom mount nut and bolt. (Figure 14)

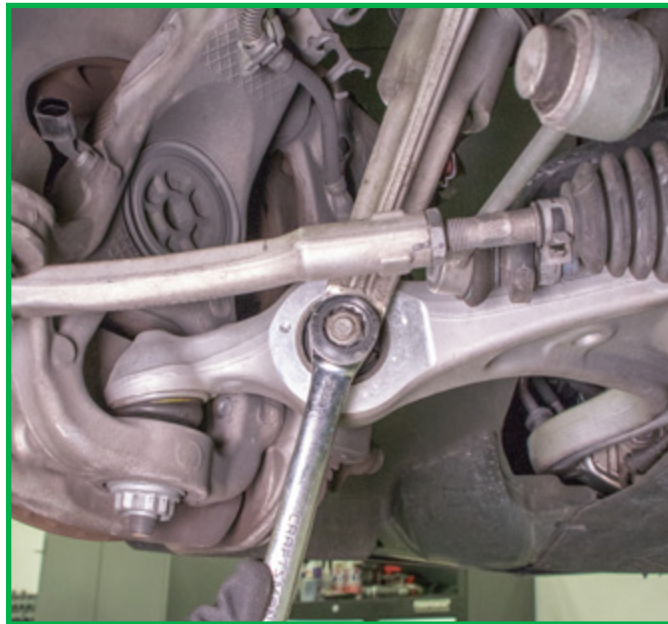


FIGURE 14

13. Loosen and remove the upper ball joint nut and separate the ball joint from the spindle assembly. (Figure 15)



FIGURE 15

14. Remove the air strut from the vehicle. (Figure 16)



FIGURE 16

15. Removal complete.

AIR STRUT INSTALLATION



WARNING:

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



WARNING:

Do not remove the air fitting from the air strut. Doing so may cause damage and/or void warranty. Remove the white shipping pin from the new air fitting and insert the air line until fully seated.

1. Install the new Arnott air strut into the vehicle. (Figure 17)



FIGURE 17

2. Install the bottom mounting bolt and nut and tighten to manufacturer's specifications. (Figures 18, 19)



FIGURE 18

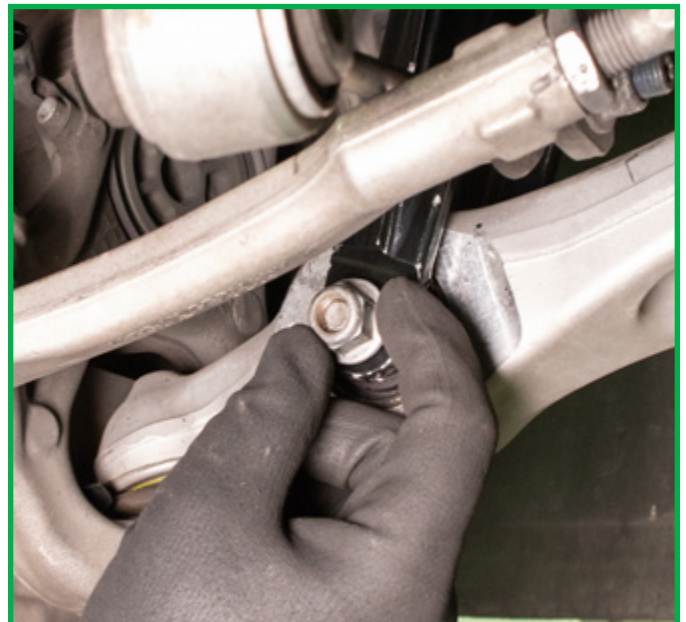


FIGURE 19

3. Reattach the sway bar end link. Reinstall the sway bar end link nut and tighten to manufacturer's specifications. (Figure 20)



FIGURE 20

4. Reattach the upper ball joint to the spindle assembly. Install the nut and tighten to manufacturer's specifications. (Figure 21)



FIGURE 21

5. Reinstall the top shock mounting nuts and tighten to manufacturer's specifications. (Figure 22)

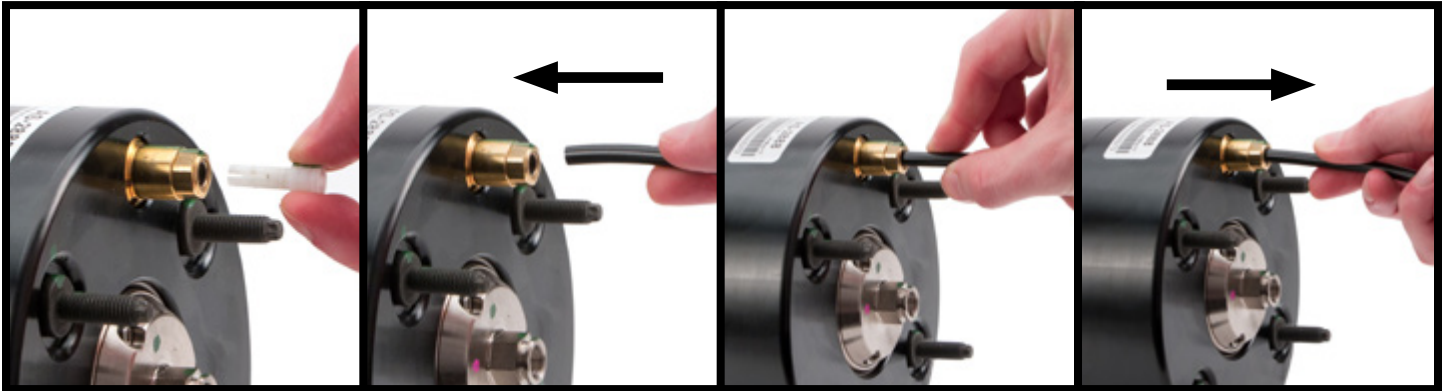


FIGURE 22

6. Reinstall the air line. Press line until fully seated. (Figure 23)



FIGURE 23



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.

7. Reinstall top electrical plug, followed by the retaining clip, being careful to appropriately orient the electrical connection to align the pins. (Figures 24, 25)



FIGURE 24

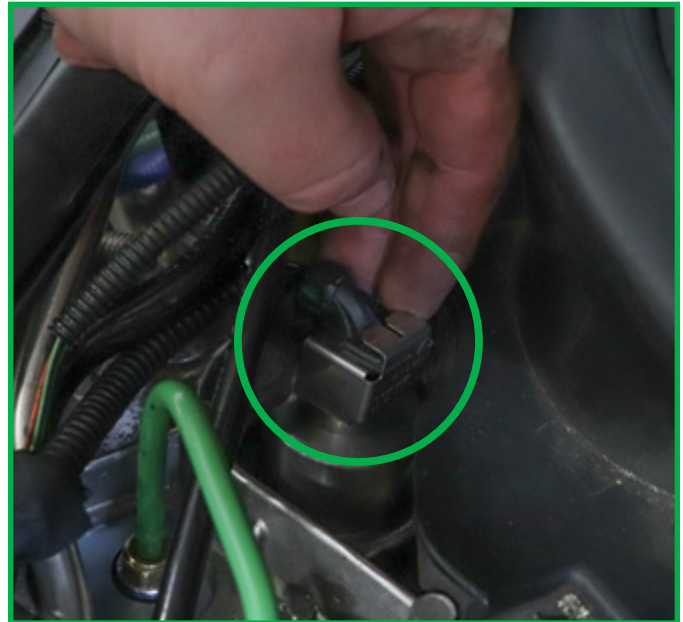


FIGURE 25

8. Reattach the electrical connector beside the air line. (Figure 26)

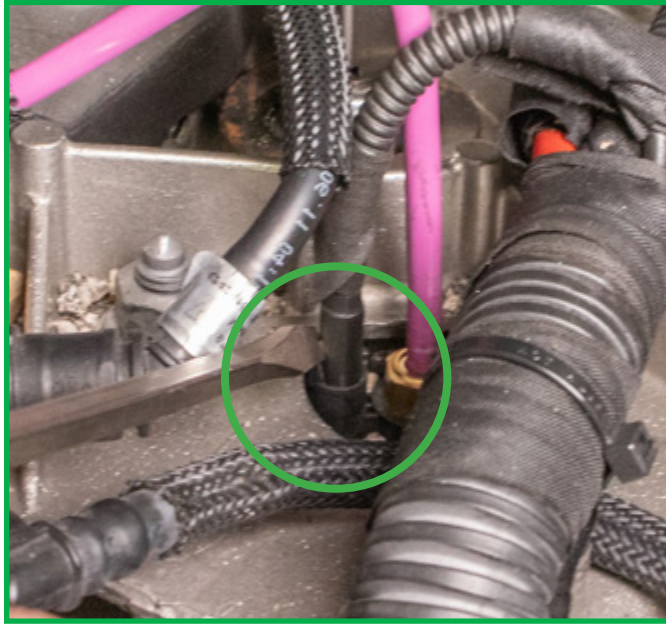


FIGURE 26

9. Reattach the wheel speed sensor wires to the mounting brackets. (Figures 27, 28, 29)

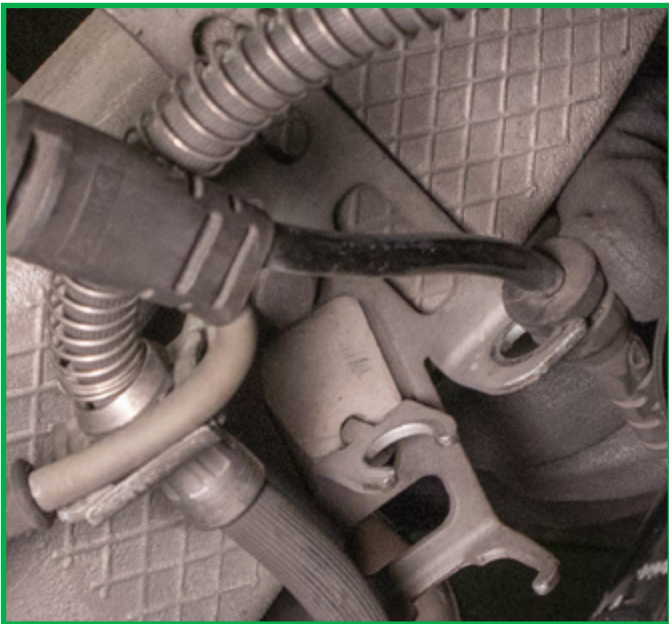


FIGURE 27

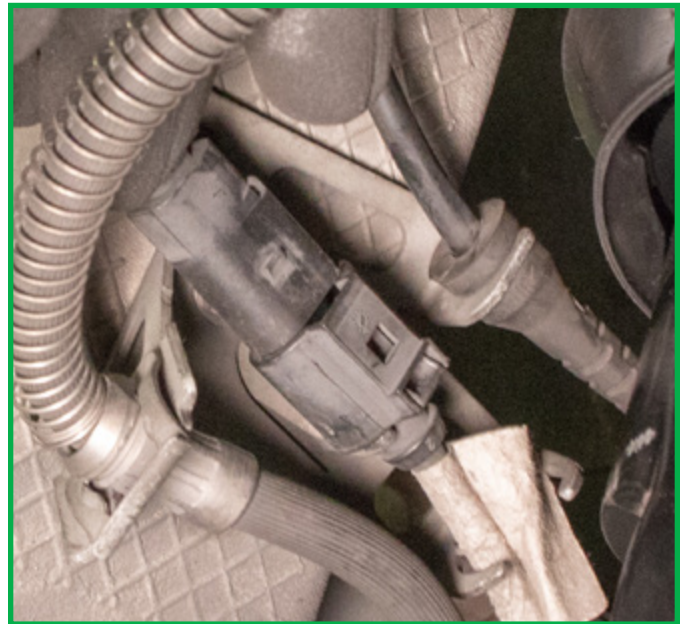


FIGURE 28



FIGURE 29

10. Reconnect the wheel speed sensor. (Figure 30)



FIGURE 30

11. Reinstall the upper plastic cover. (Figure 31)



FIGURE 31

12. Reinstall the wheel.
13. Lower the vehicle.
14. Installation complete.

NOTE: This vehicle contains 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.

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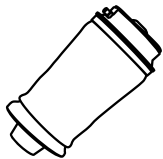
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BE Phone: +32 258 846 90

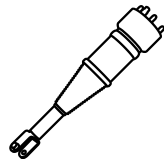
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FR Phone: +32 78 48 46 93

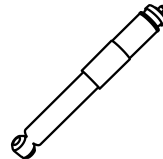
Email: info@arnotteurope.com



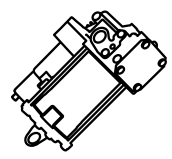
Air Springs



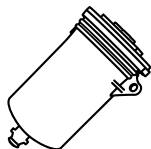
Struts



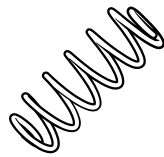
Shocks



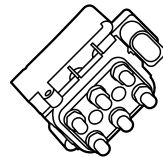
Compressors



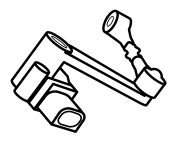
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors