

Installation Manual

AS-3236
ARNOTT
NEW FRONT LEFT AIR STRUT
2011-2017 PORSCHE CAYENNE (92A)



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. (In the EU please call +31 (0)73 7850 580 or email info@arnotteurope.com)

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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.

- 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.



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.

AIR STRUT REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. RAISE VEHICLE.
3. REMOVE FRONT WHEEL. (FIGURE 1)



FIGURE 1

4. OPEN HOOD AND REMOVE APPLICABLE ENGINE BAY TRIM TO ACCESS THE STRUT'S TOP MOUNT AND ELECTRICAL CONNECTOR. (FIGURES 2, 3, 4)



FIGURE 2



FIGURE 3



FIGURE 4

5. DISCONNECT THE ELECTRICAL CONNECTION TO THE STRUT. (FIGURES 5, 6)



FIGURE 5



FIGURE 6

6. LOOSEN AND REMOVE THE STRUT'S TOP MOUNTING NUTS. (FIGURE 7)

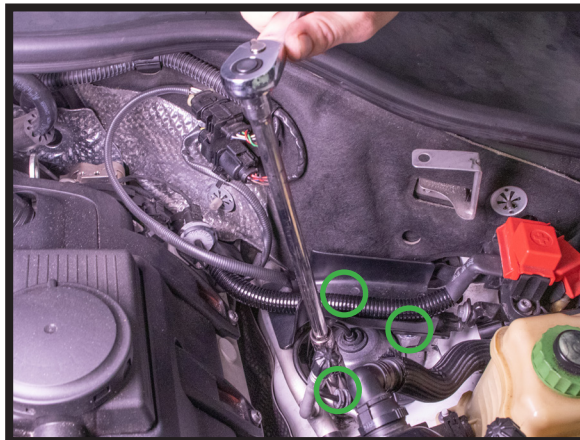


FIGURE 7

7. LOOSEN AND REMOVE AIR LINE, THEN REMOVE AND DISCARD OE AIR FITTING. (FIGURES 8, 9)



FIGURE 8

OE AIR FITTING 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.

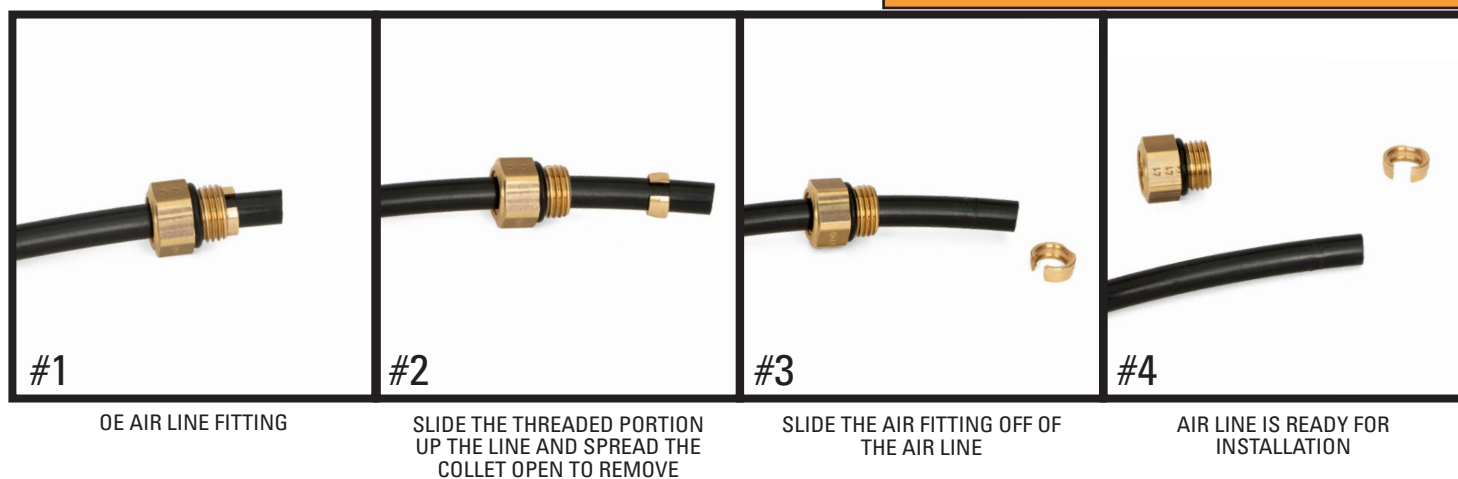


FIGURE 9

8. DISCONNECT THE HEIGHT SENSOR LINKAGE. (FIGURES 10, 11)



FIGURE 10

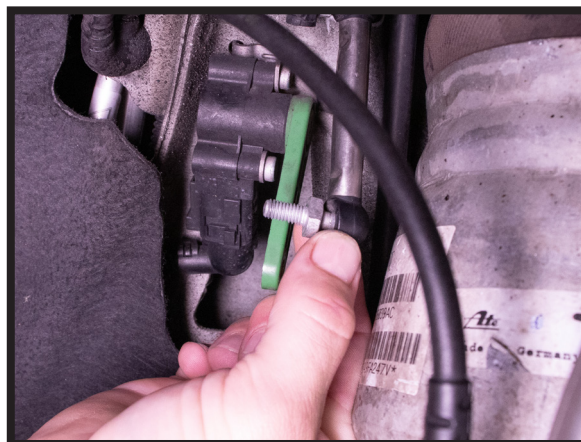


FIGURE 11

9. DISCONNECT THE BRAKE HOSE GROMMET. (FIGURE 12)



FIGURE 12

10. DISCONNECT THE ABS SENSOR GROMMET AND CONNECTION. (FIGURES 13, 14)



FIGURE 13



FIGURE 14

11. SEPARATE THE BALL JOINT FROM THE SPINDLE ASSEMBLY. (FIGURES 15, 16)



FIGURE 15



FIGURE 16

12. LOOSEN AND REMOVE THE TOP SWAY BAR END LINK BOLT AND NUT. (FIGURES 17, 18)

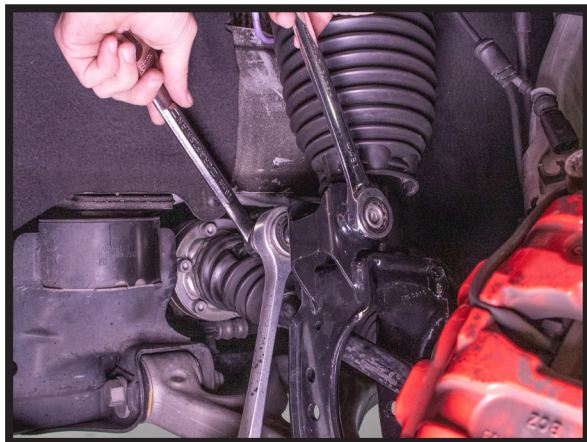


FIGURE 17



FIGURE 18

13. LOOSEN THE BOTTOM SWAY BAR END LINK NUT, BUT DO NOT REMOVE. (FIGURE 19)



FIGURE 19

14. LOOSEN AND REMOVE THE LOWER STRUT BOLT. (FIGURES 20, 21)

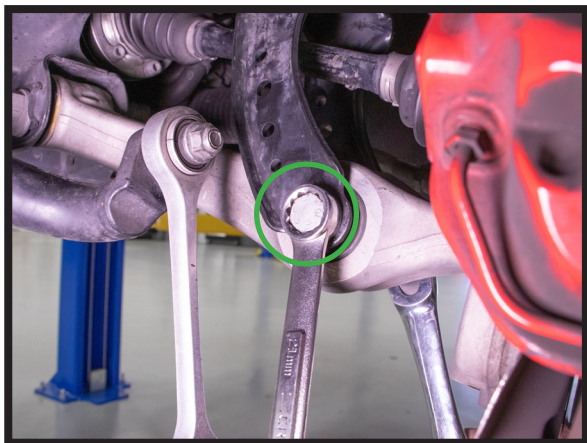


FIGURE 20

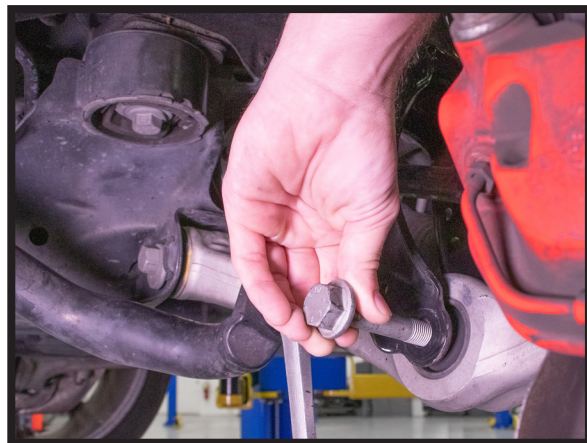


FIGURE 21

15. REMOVE STRUT FROM VEHICLE. (FIGURE 22)



FIGURE 22

16. REMOVAL COMPLETE.

AIR STRUT INSTALLATION



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

1. INSTALL THE NEW ARNOTT AIR STRUT INTO THE VEHICLE. (FIGURE 23)



FIGURE 23

2. REINSTALL THE LOWER STRUT MOUNTING BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 24, 25)



FIGURE 24



FIGURE 25

3. REINSTALL THE TOP SWAY BAR END LINK BOLT AND NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 26, 27)

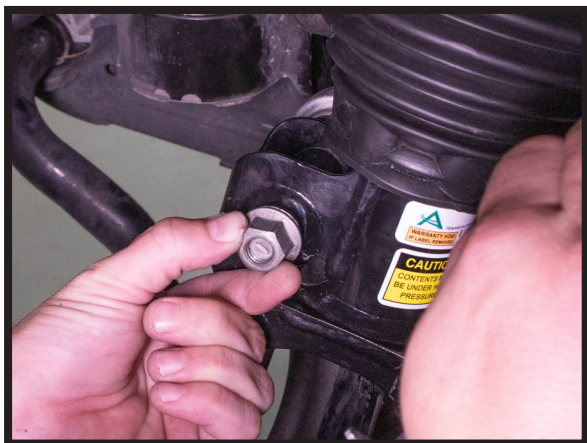


FIGURE 26

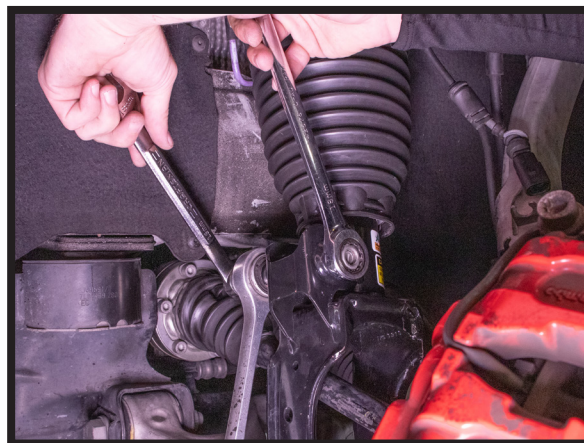


FIGURE 27

4. TIGHTEN THE BOTTOM SWAY BAR END LINK NUT TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 28)

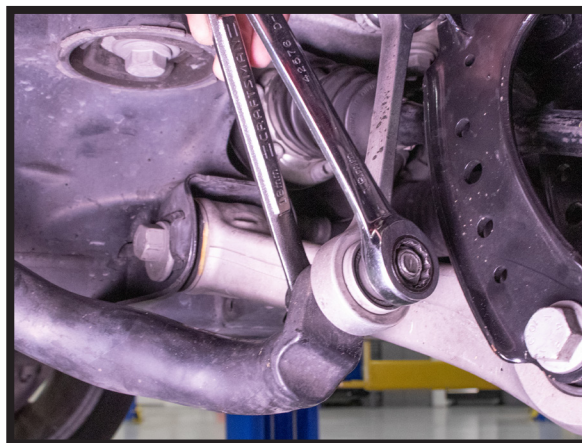


FIGURE 28

5. REINSTALL THE UPPER BALL JOINT NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 29, 30)



FIGURE 29



FIGURE 30

6. RECONNECT BRAKE LINE AND ABS SENSOR WIRE GROMMETS. (FIGURES 31, 32)



FIGURE 31



FIGURE 32

7. RECONNECT THE ABS SENSOR WIRE. (FIGURE 33)



FIGURE 33

8. RECONNECT THE HEIGHT SENSOR LINKAGE AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 34, 35)



FIGURE 34

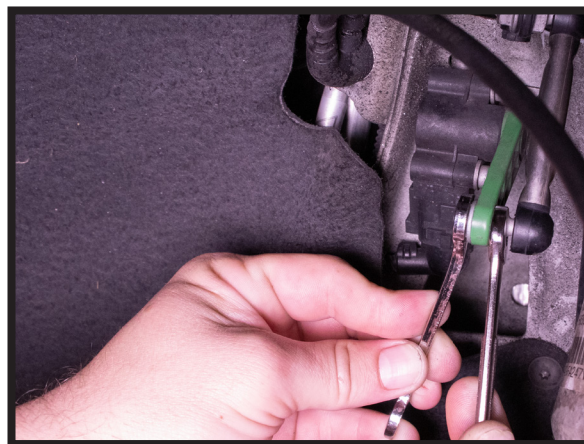


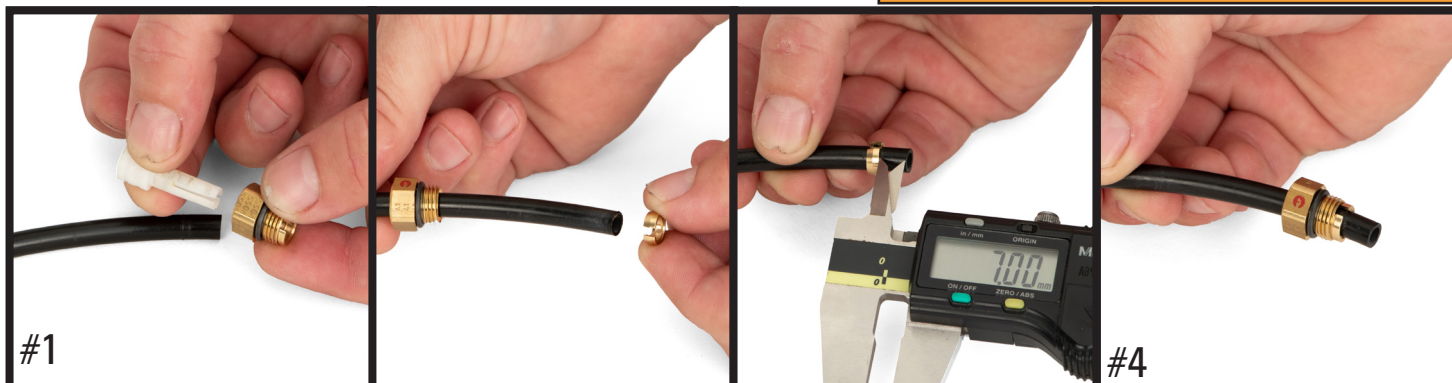
FIGURE 35

9. INSTALL ARNOTT AIR FITTING TO EXISTING AIR HOSE. (FIGURE 36)

ARNOTT AIR FITTING INSTALLATION

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.



REMOVE AND DISPOSE
OF THE SHIPPING PIN

INSERT AIR LINE THROUGH
FITTING AND COLLET

AIR LINE SHOULD BE
APPROX. 6-8MM BELOW
COLLET

PULL AIR FITTING OUTWARD
TO LOCK COLLET

FIGURE 36

10. REINSTALL THE AIR LINE AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 37)



FIGURE 37

11. INSTALL THE THREE SUPPLIED TOP STRUT MOUNTING NUTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 38)

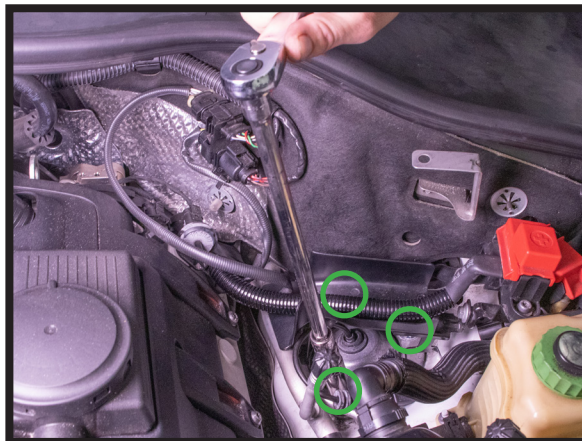


FIGURE 38

12. RECONNECT THE AIR STRUT'S ELECTRICAL CONNECTION. (FIGURE 39)



FIGURE 39

13. UNDER THE HOOD, REINSTALL THE SIDE TRIM COVER. (FIGURE 40)



FIGURE 40

14. CLOSE THE HOOD.
15. REINSTALL THE WHEEL.
16. LOWER THE VEHICLE.
17. INSTALLATION COMPLETE.