

# Installation Manual

AS-3380  
ARNOTT  
NEW FRONT AIR STRUT  
2016-2018 TESLA MODEL S  
w/AWD



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.*

## 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.*

- 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. RELEASE AND LIFT FRONT TRUNK LID AND REMOVE THE INTERIOR PANELS. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

2. REMOVE APPLICABLE AIR LINE FROM THE STRUT. REMOVE OLD AIR FITTING AND DISCARD. (FIGURES 3, 4, 5)

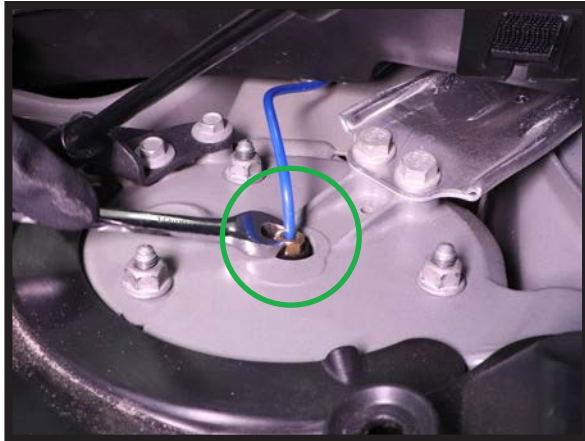


FIGURE 3



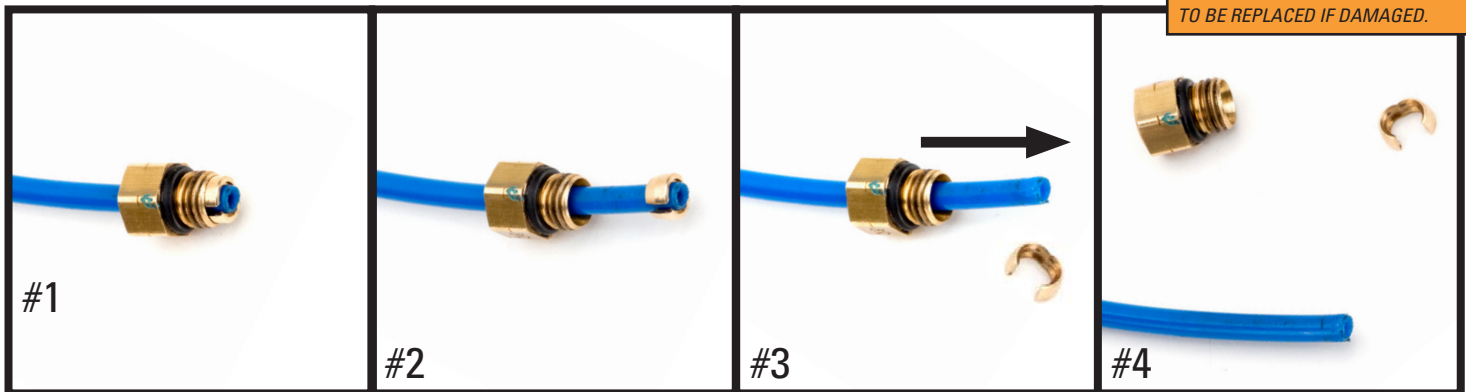
FIGURE 4

## 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.



OE AIR LINE FITTING

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

SLIDE THE AIR FITTING OFF OF THE AIR LINE

AIR LINE IS READY FOR INSTALLATION

FIGURE 5

3. REMOVE THE THREE (3) TOP MOUNT NUTS. (FIGURE 6)

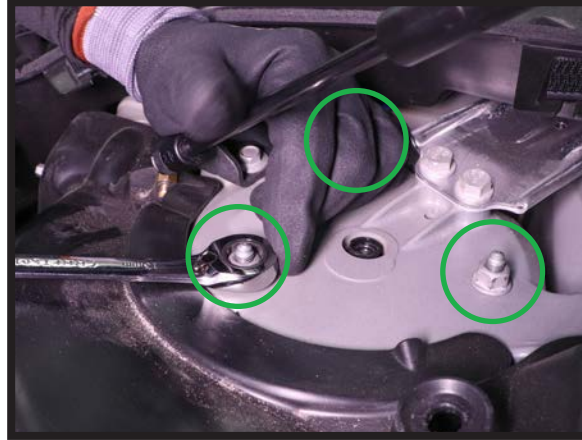


FIGURE 6

4. RAISE VEHICLE AND REMOVE APPLICABLE FRONT WHEEL. (FIGURE 7)



FIGURE 7

5. REMOVE CLEVIS MOUNT BOLT. (FIGURES 8, 9)



FIGURE 8



FIGURE 9

6. REMOVE BOTTOM STRUT MOUNT BOLT AND NUT. (FIGURES 10, 11)



FIGURE 10



FIGURE 11

7. REMOVE OE AIR STRUT FROM CLEVIS MOUNT AND REMOVE FROM VEHICLE. (FIGURES 12, 13)



FIGURE 12



FIGURE 13

8. REMOVAL COMPLETE.

## AIR STRUT INSTALLATION



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



*Do not remove the air fitting from the air strut. Doing so may cause damage and/or void warranty.*

1. INSTALL NEW ARNOTT AIR STRUT INTO VEHICLE. ENSURE THE STRUT'S BOTTOM MOUNT IS SEATED CORRECTLY IN THE CLEVIS MOUNT. (FIGURES 14, 15)



FIGURE 14



FIGURE 15

2. INSTALL CLEVIS MOUNT BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 16, 17)



FIGURE 16



FIGURE 17

3. INSTALL BOTTOM SHOCK MOUNT NUT AND BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 18)



FIGURE 18

4. REINSTALL THE THREE (3) TOP MOUNT NUTS. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 19)



FIGURE 19

5. REMOVE WHITE SHIPPING PIN FROM THE STRUT'S AIR FITTING. (FIGURE 20)

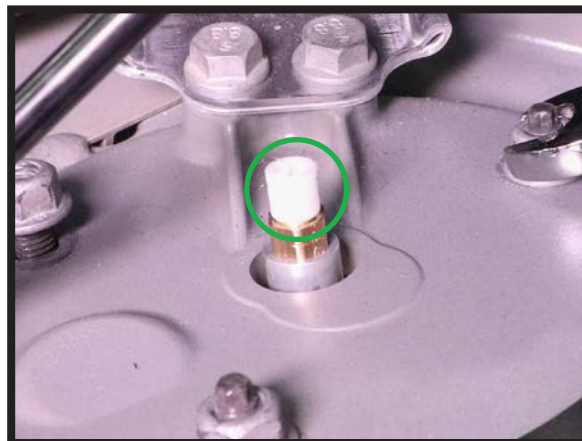


FIGURE 20

6. INSTALL AIR LINE BY PUSHING THE LINE INTO AIR FITTING UNTIL IT IS FIRMLY SEATED. (FIGURES 21, 22)

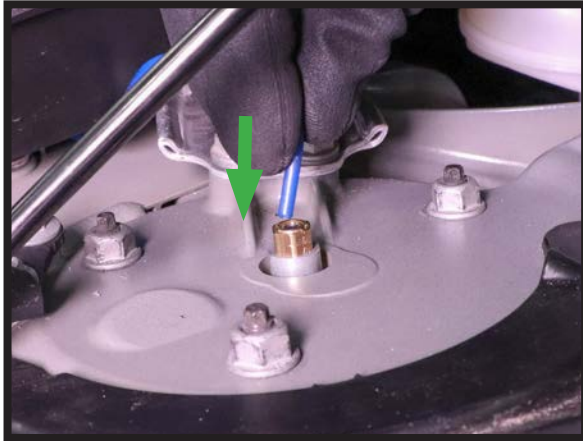


FIGURE 21

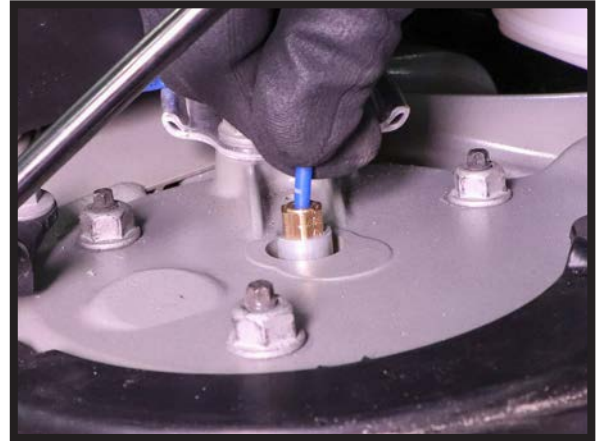


FIGURE 22

7. INSTALL FRONT TRUNK INTERIOR PANELS. (FIGURE 23, 24)



FIGURE 23



FIGURE 24

8. REINSTALL THE APPLICABLE FRONT WHEEL.
9. LOWER VEHICLE UNTIL THE WHEELS TOUCH THE GROUND. START VEHICLE AND ALLOW STRUT TO INFLATE.
10. LOWER VEHICLE COMPLETELY.
11. INSTALLATION COMPLETE.