



INSTALLATION MANUAL

AS-5143

**Arnott New Front Air Strut
Tesla Model X (5YJX) w/o Adaptive Damping**



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.arnottsuspension.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.

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.

FRONT STRUT REMOVAL

NOTE: Use an appropriate jack to support the lower control arm and knuckle. Adjust as needed during the removal and installation process.

1. Raise the vehicle.
2. Deflate and disable the air suspension according to the manufacturer's specifications.
3. Remove the three (3) trunk panels. (Figures 1, 2)



FIGURE 1



FIGURE 2

4. Remove the weather strip and unclip the two (2) cargo lights from within the trunk liner. (Figures 3, 4)



FIGURE 3



FIGURE 4

5. Remove the trunk liner. (Figure 5)



FIGURE 5

6. Remove the bolts securing the trunk. Then, remove the trunk and filter. (Figures 6, 7, 8, 9)



FIGURE 6



FIGURE 7



FIGURE 8



FIGURE 9

7. If replacing the driver's side strut, remove the fuse box housing mounting bolts and carefully move the housing box to the side to gain access to the strut tower. (Figures 10, 11)



FIGURE 10



FIGURE 11

8. Disconnect the air fitting from the top of the strut. (Figure 12)



FIGURE 12

9. Remove the front wheel and, if needed, the wheel well liner. (Figure 13)



FIGURE 13

10. Unclip the ABS wire from the brackets. (Figure 14)



FIGURE 14

11. Remove the bracket for the brake line from the back side of the clevis. (Figure 15)



FIGURE 15

12. Remove the bolt connecting the upper control arm to the knuckle. (Figure 16, 17)



FIGURE 16



FIGURE 17

13. Remove the sway-bar-to-knuckle nut and move the sway bar aside. (Figure 18, 19)

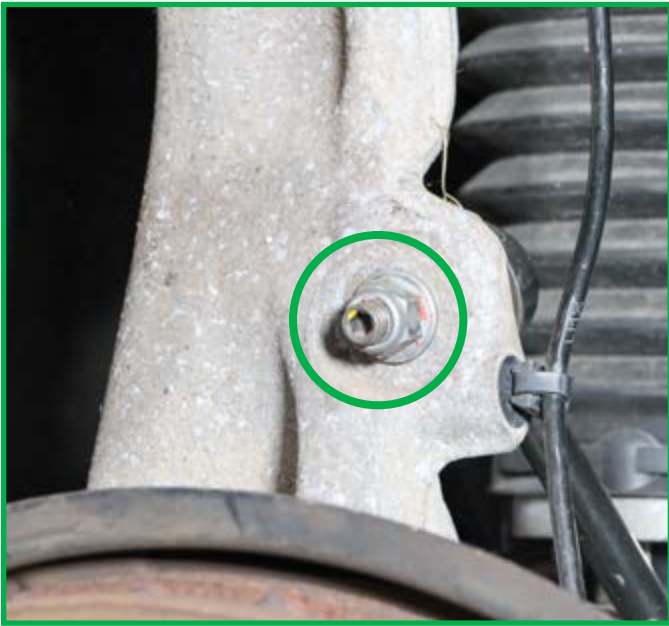


FIGURE 18



FIGURE 19

14. Remove the bolt connecting the clevis to the lower control arm. (Figures 20, 21)

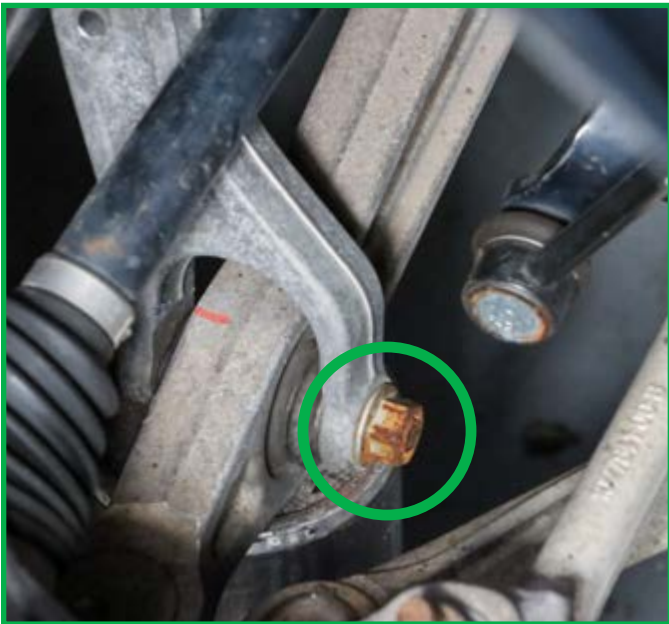


FIGURE 20



FIGURE 21

15. Remove the clevis pinch bolt. (Figures 22, 23)



FIGURE 22



FIGURE 23

16. Use an appropriate clevis spreader tool and remove the clevis from the bottom of the strut. (Figure 24)

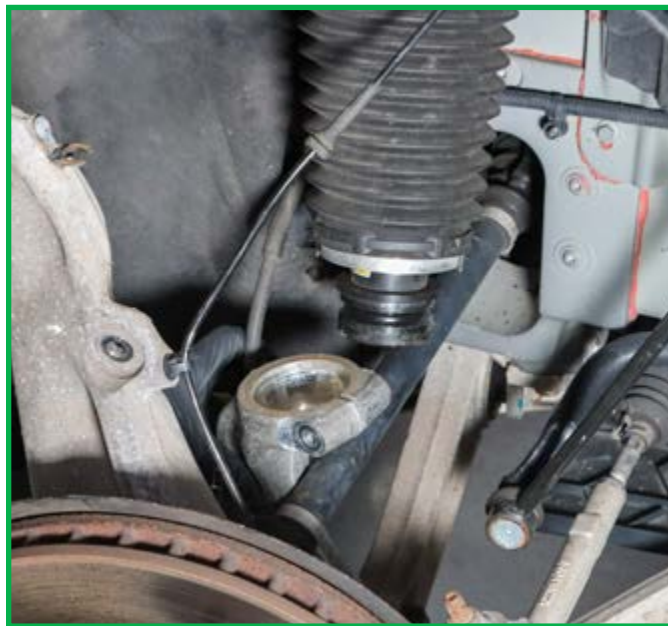


FIGURE 24

17. Holding on to the strut from below, remove the three upper mounting nuts. (Figure 25)



FIGURE 25

18. Remove the strut from the vehicle. (Figure 26)



FIGURE 26

NEW FRONT STRUT INSTALLATION



WARNING:

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

1. Position the strut into the vehicle. (Figure 27)



FIGURE 27

2. Loosely thread the three (3) upper mounting nuts, but do not tighten yet.
3. Install the clevis onto the bottom of the strut and install the pinch bolt. (Figures 28, 29)



FIGURE 28



FIGURE 29

4. Install the clevis-to-lower-control-arm bolt. (Figure 30)



FIGURE 30

5. Install the upper control arm bolt. (Figure 31)



FIGURE 31

6. Reattach the brake line bracket to the clevis.
7. Reattach the ABS wire to the brackets.
8. Tighten the upper mounting nuts to the manufacturer's specifications.
9. Remove the OE air line fitting. (Figures 32, 33)



FIGURE 32

AIR LINE FITTING REMOVAL



Prior to inserting the existing air line into the new air strut, remove the old original equipment air line fitting and discard.

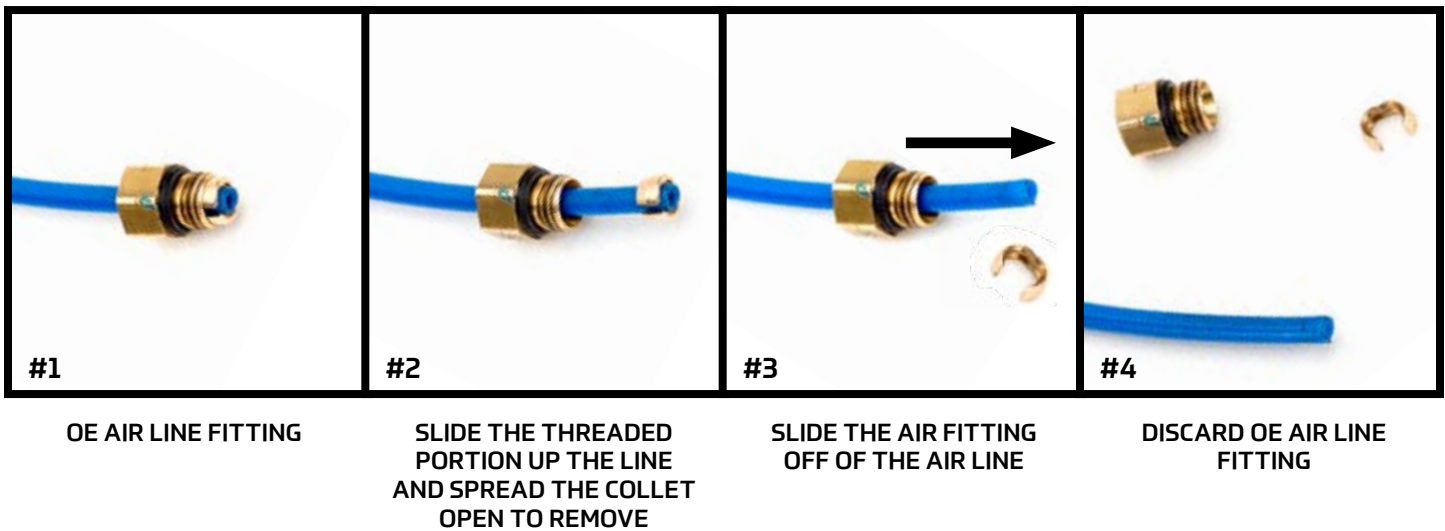


FIGURE 33

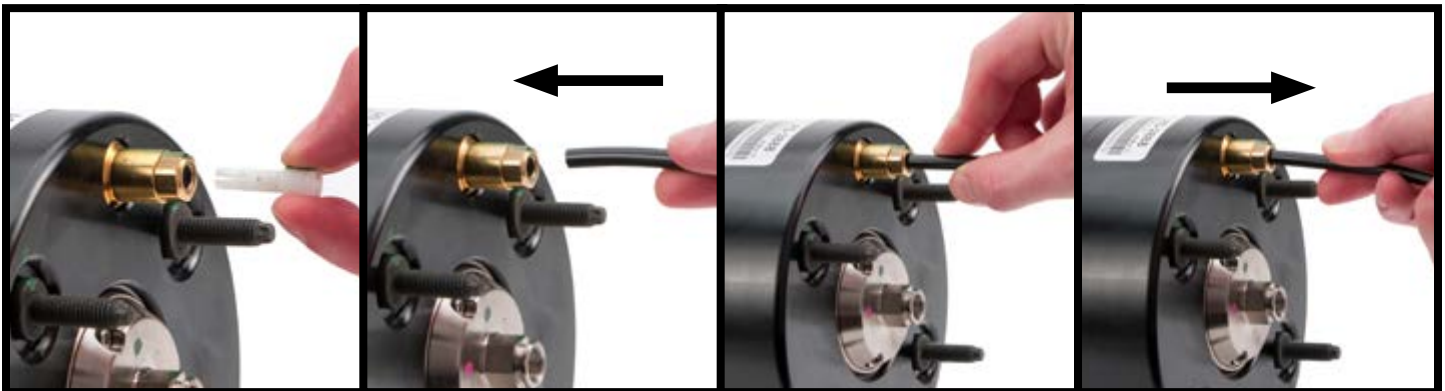
10. Remove the shipping pin and install the air line. (Figures 34, 35)



FIGURE 34

SHIPPING PIN REMOVAL AND AIR LINE INSTALLATION

NOTE: Scratches and/or deep cuts in the air line may result in leaks. Inspect the air line before insertion. Replace the air line if damaged.



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.

FIGURE 35

11. Follow the manufacturer's specifications for enabling and inflating the air suspension system.
12. Install the wheel and wheel well liner.
13. Lower the vehicle.
14. If replacing the driver's side strut, reinstall the fuse box housing mounting bolts. (Figure 36)



FIGURE 36

15. Reassemble the trunk by first installing the filter. (Figure 37)



FIGURE 37

16. Install the trunk and trunk bolts. (Figure 38)



FIGURE 38

17. Install the trunk liner and reclip the cargo lights. (Figures 39, 40)



FIGURE 39



FIGURE 40

18. Install the liner, weather strip, and three trunk panels. (Figures 41, 42)



FIGURE 41



FIGURE 42

19. New strut installation complete.

Arnott®

Suspension Products

Arnott US Business Office:

www.arnottsuspension.com

100 Sea Ray Drive
Merritt Island, FL 32953

Call: 800.251.8993

321.868.3016

Fax: 321.868.3703

Email: techassistance@arnottinc.com

Arnott Europe Business Office:

www.arnotteurope.com

Industrieweg 19
5145 PD, Waalwijk (NL)

NL Phone: +31 73 7850 580

DE Phone: +31 85 2087 438

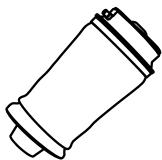
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BE Phone: +32 258 846 90

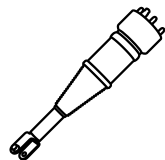
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FR Phone: +32 78 48 46 93

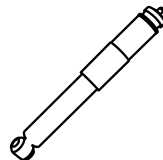
Email: info@arnotteurope.com



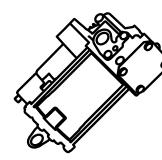
Air Springs



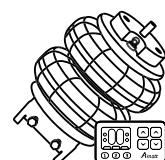
Struts



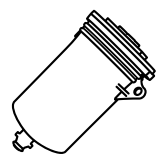
Shocks



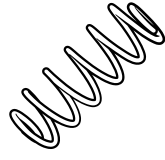
Compressors



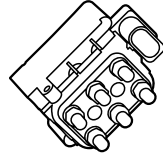
LCV Air Helper
Spring Kits



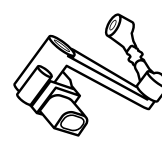
Dryers



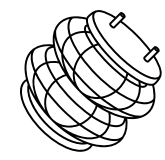
Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors



Pickup Truck Air
Helper Springs