



INSTALLATION MANUAL

AS-3608
Arnott New Front Air Strut
Land Rover Range Rover Velar
(L560 Chassis, w/o Performance Suspension)



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.

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.

STRUT REMOVAL

1. Raise the vehicle.
2. Disable the air suspension and deflate the applicable spring per manufacturer's instructions.
3. Remove the applicable wheel. (Figure 1)

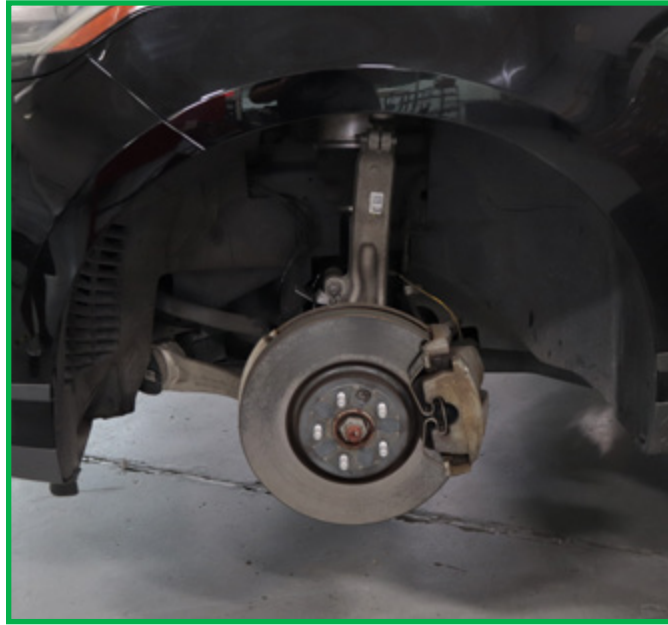


FIGURE 1

4. Disconnect the electrical connector from the top of the strut. (Figure 2)



FIGURE 2

5. Remove the air fitting from the top of the strut. (Figures 3, 4)



FIGURE 3



FIGURE 4

6. Disconnect the sway bar link from the spindle. (Figures 5, 6, 7)

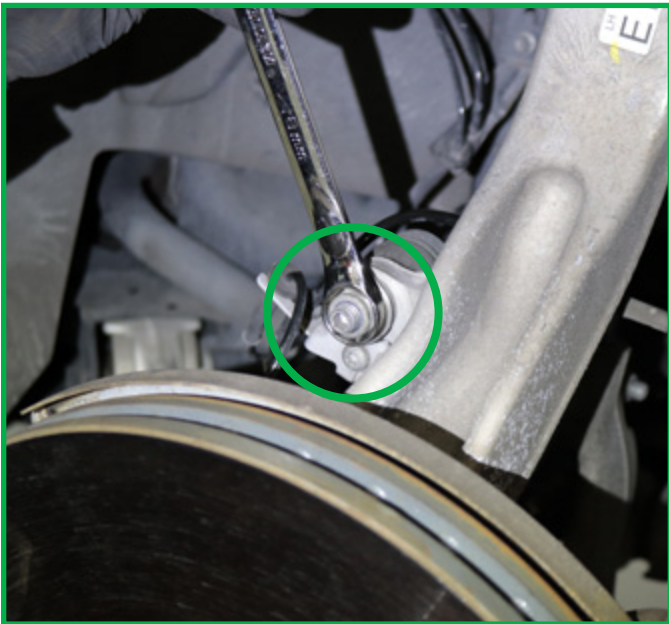


FIGURE 5



FIGURE 6

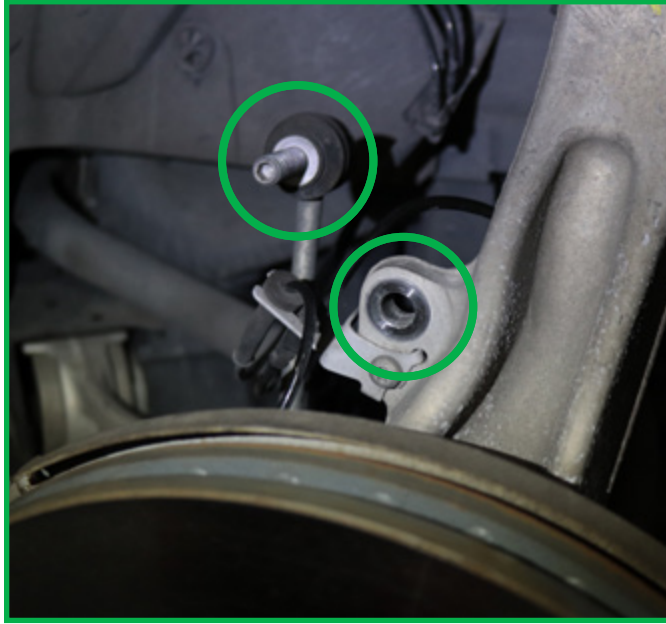


FIGURE 7

7. Disconnect the upper control arm from the spindle. (Figures 8, 9)



FIGURE 8



FIGURE 9

8. Remove the lower strut mount bolt. (Figures 10, 11)



FIGURE 10

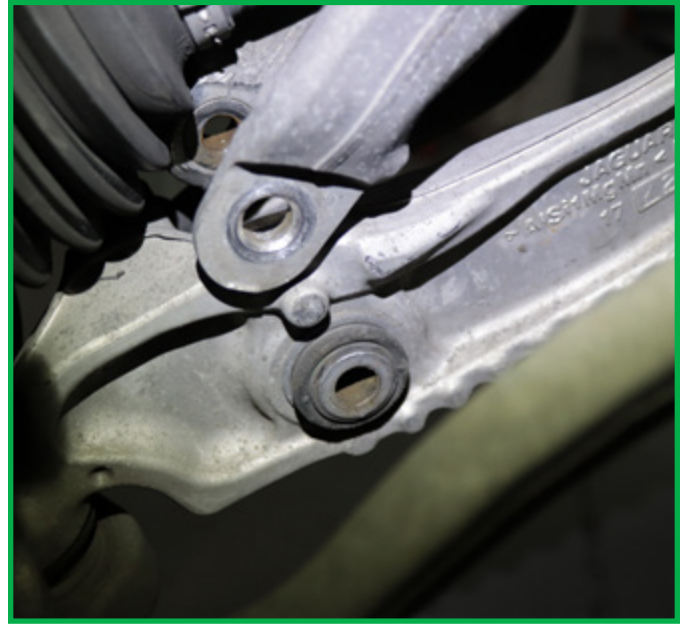


FIGURE 11

9. Remove the clevis bolt from the strut mount. (Figures 12, 13)

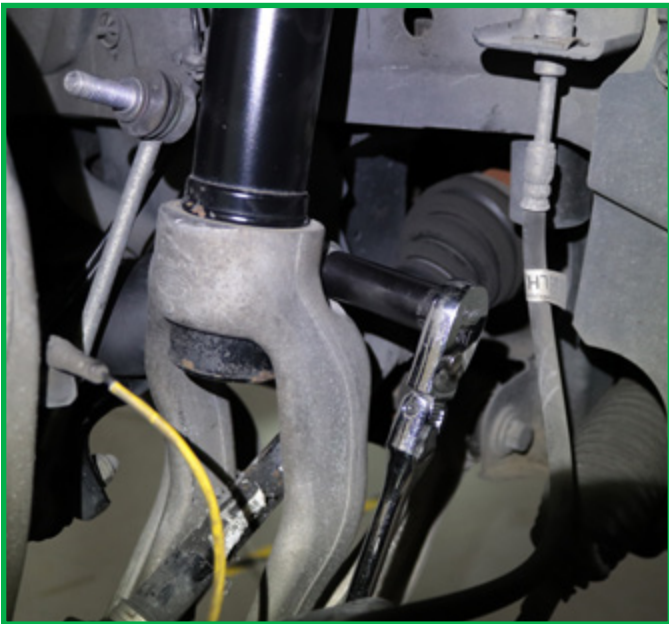


FIGURE 12



FIGURE 13

10. Use an appropriate tool to gently spread the clevis. Separate the strut from the strut mount. (Figure 14)



FIGURE 14

11. Remove the three top nuts. (Figure 15)

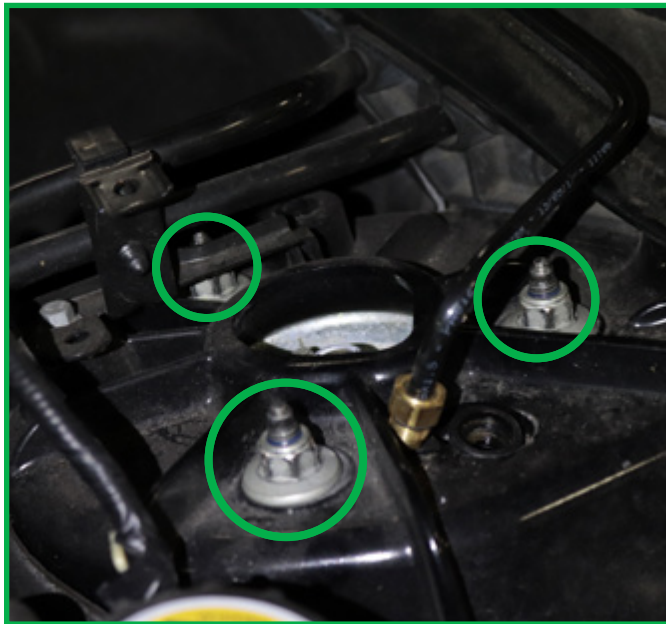


FIGURE 15

12. Remove the strut from the vehicle. (Figure 16)



FIGURE 16

13. Removal complete.

STRUT INSTALLATION



WARNING:

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

1. Remove the protective cap from the connector housing at the top of the new Arnott strut. (Figure 17)



FIGURE 17

2. Install the new Arnott strut into the vehicle. (Figure 18)



FIGURE 18

3. Loosely thread the top nuts on with the included washer to hold the strut in place. (Figure 19)

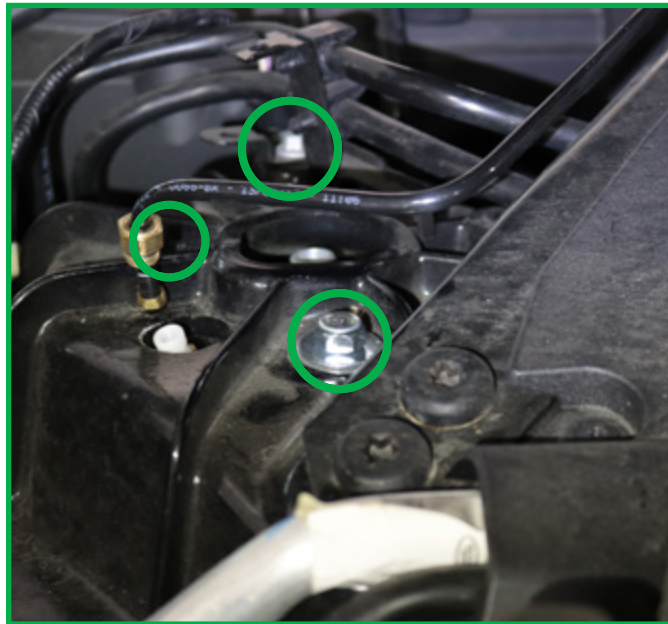


FIGURE 19

4. Seat the strut into the lower strut mount. (Figure 20)



FIGURE 20

5. Install the lower mount bolt. Do not fully tighten at this point. (Figure 21)



FIGURE 21

- Using an appropriate jack, lift the wheel hub into normal ride height position. (Figure 22)



FIGURE 22

- Install the clevis bolt and tighten to manufacturer's specifications. (Figure 23)



FIGURE 23

8. Connect the upper control arm to the spindle and tighten to manufacturer's specifications. (Figure 24)



FIGURE 24

9. Connect the sway bar link to the spindle. Tighten to manufacturer's specifications. (Figure 25)



FIGURE 25

10. Tighten the lower strut mount bolt to manufacturer's specifications. (Figure 26)



FIGURE 26

11. Tighten the top mount nuts to manufacturer's specifications. (Figure 27)



FIGURE 27

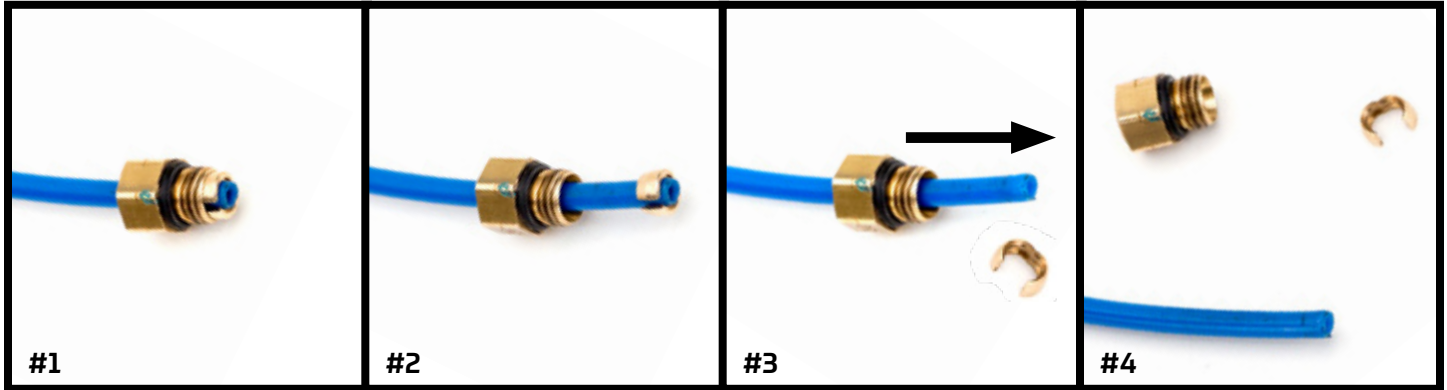
REMOVAL



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

12. Install the air line into the air fitting. (Figure 28)



FIGURE 28

13. Install the electrical connector to the top of the strut. (Figure 29)

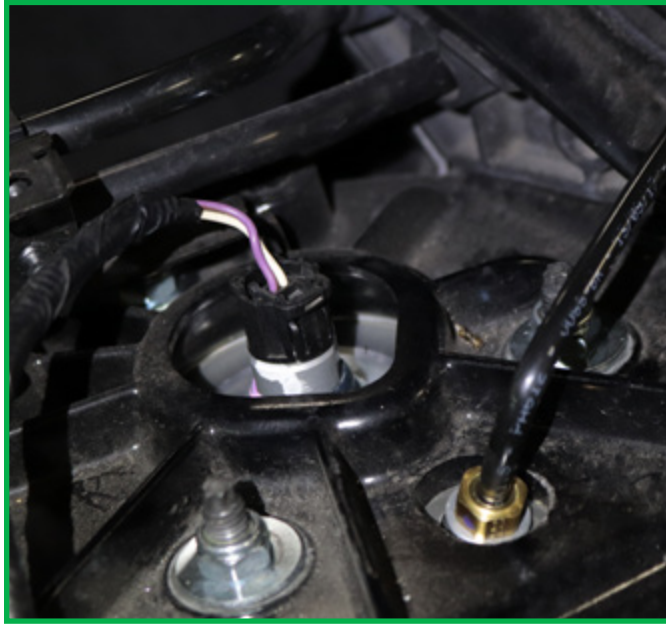


FIGURE 29

14. Install the wheel.

15. Enable the air suspension and inflate the strut according to manufacturer's instructions.

16. Installation complete.

Arnott®

Suspension Products

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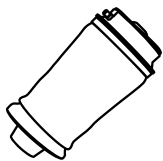
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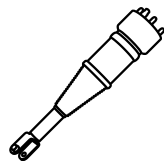
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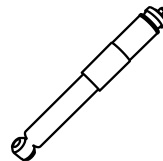
Email: info@arnotteurope.com



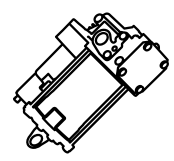
Air Springs



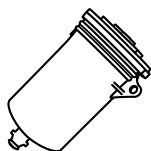
Struts



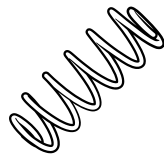
Shocks



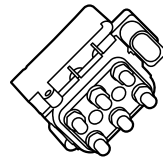
Compressors



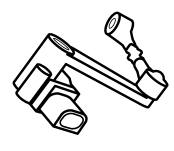
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors