



INSTALLATION MANUAL

AS-5163 Arnott New Front Air Strut Land Rover Discovery (L462 Chassis, w/o Adaptive)



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.

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 the applicable front wheel. (Figure 1)

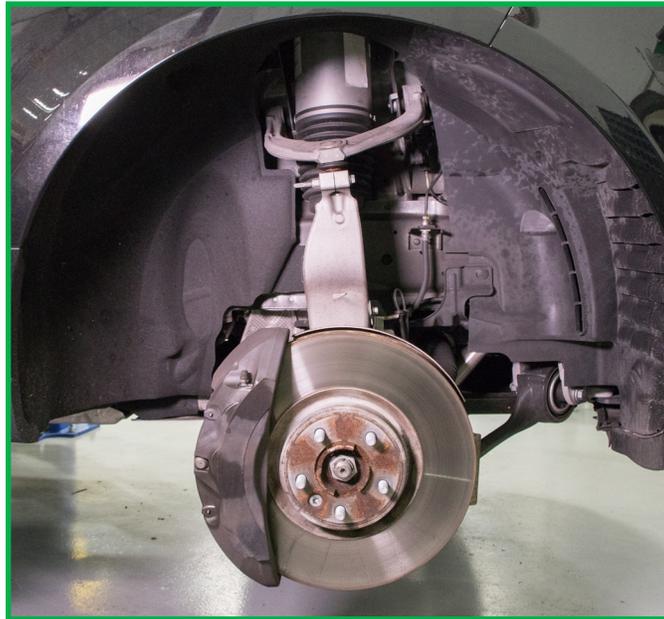


FIGURE 1

4. Loosen and remove the air line from the top of the strut. (Figures 2, 3)



FIGURE 2



FIGURE 3

5. Remove the air line fitting. To do so, spread the collet open and the remaining fitting will slide off of the air hose. (Figures 4, 5, 6, 7)



FIGURE 4



FIGURE 5



FIGURE 6

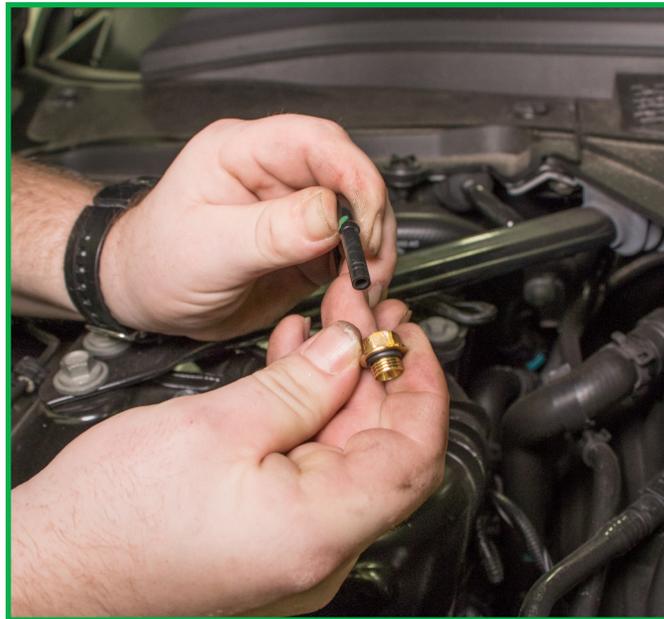


FIGURE 7

6. Loosen and remove the top mounting nuts. (Figures 8, 9)



FIGURE 8

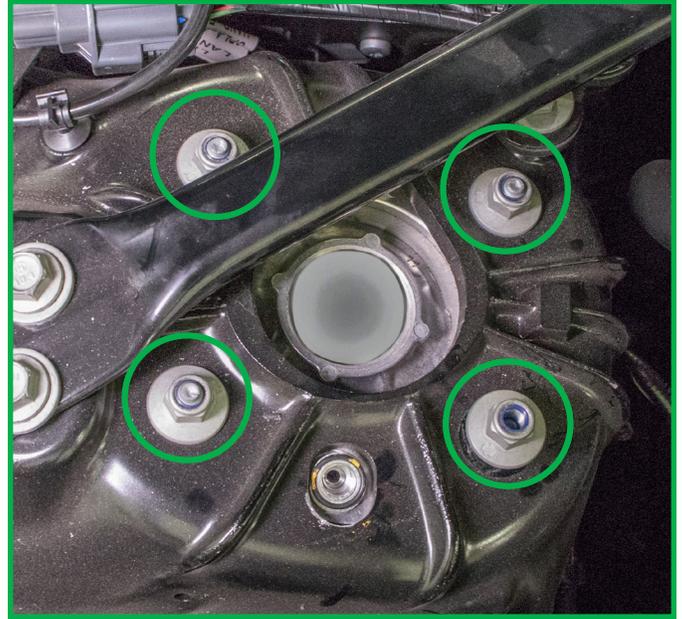


FIGURE 9

7. Loosen and remove the sensor wire and brake line bracket. (Figures 10, 11, 12)



FIGURE 10

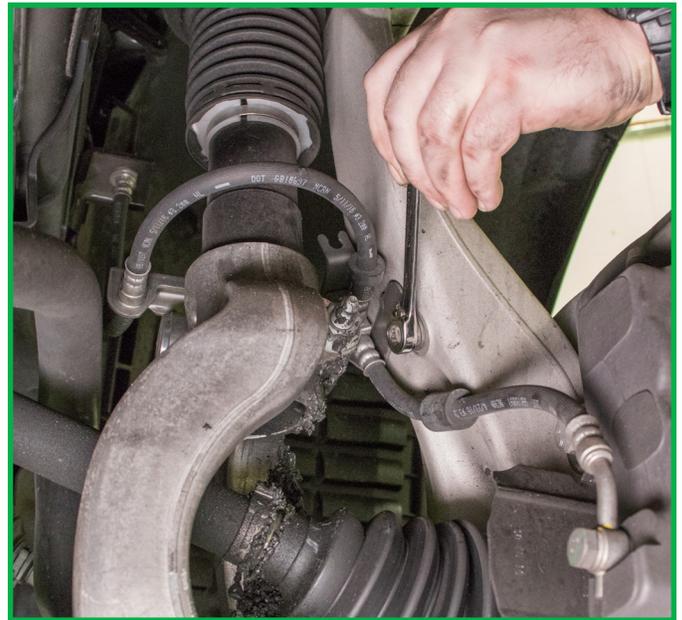


FIGURE 11

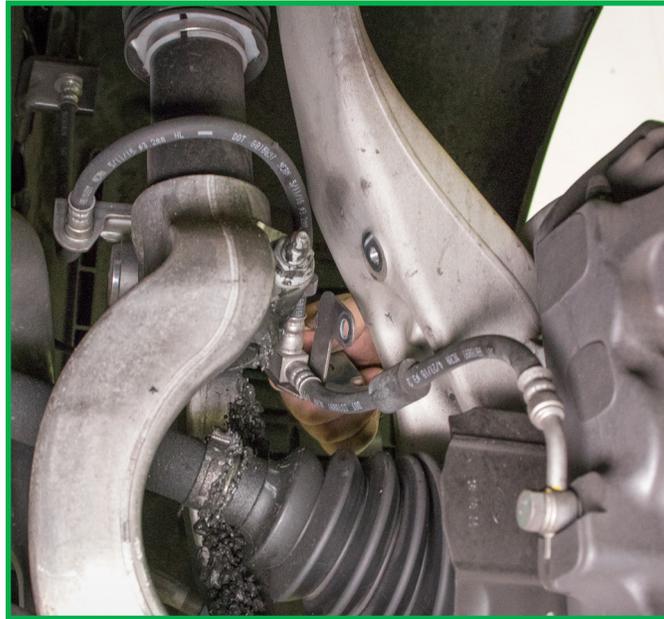


FIGURE 12

8. Locate and remove the upper control arm ball joint nut. Separate the ball joint from the spindle assembly. (Figures 13, 14, 15)

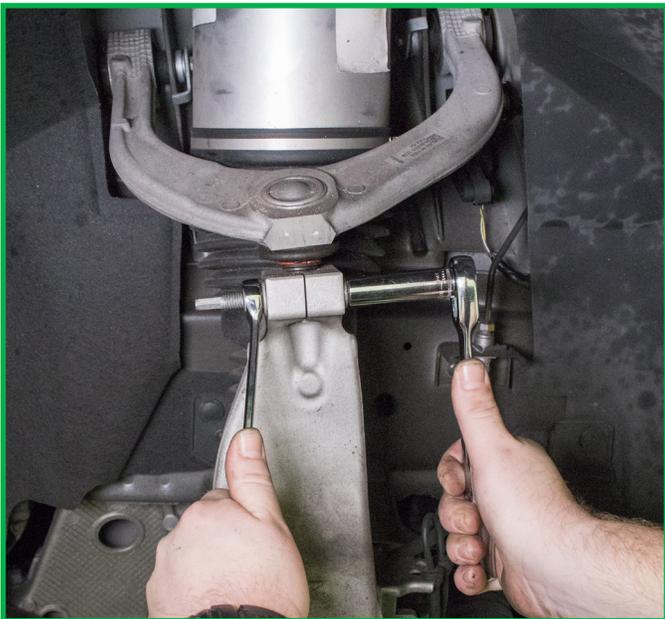


FIGURE 13

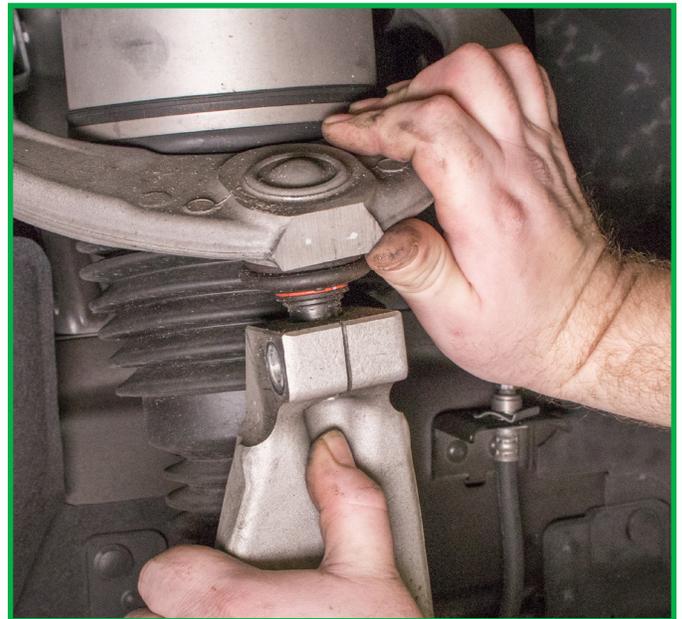


FIGURE 14



FIGURE 15

9. Loosen and remove the lower strut mounting bolt. (Figure 16)



FIGURE 16

10. Remove the sensor wire bracket and separate the end link from the lower strut clevis. (Figures 17, 18, 19)



FIGURE 17



FIGURE 18



FIGURE 19

11. Loosen the strut clevis. (Figure 20)



FIGURE 20

12. Pull the spindle assembly outward and remove the strut. (Figures 21, 22)

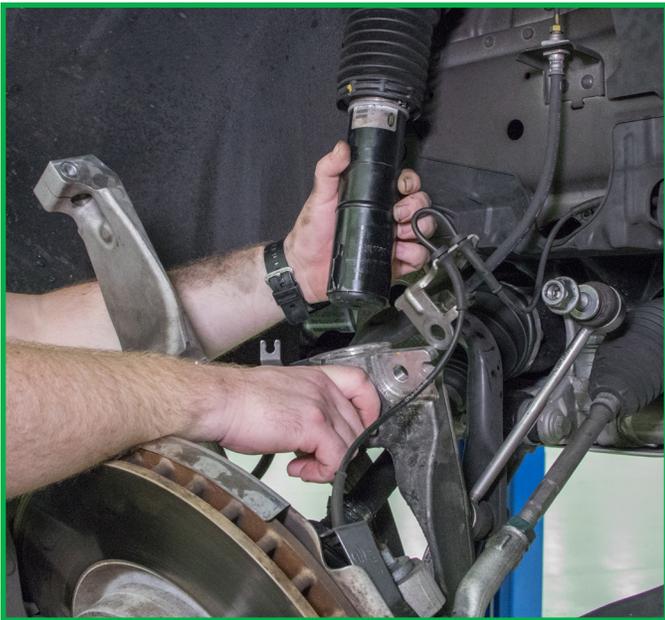


FIGURE 21

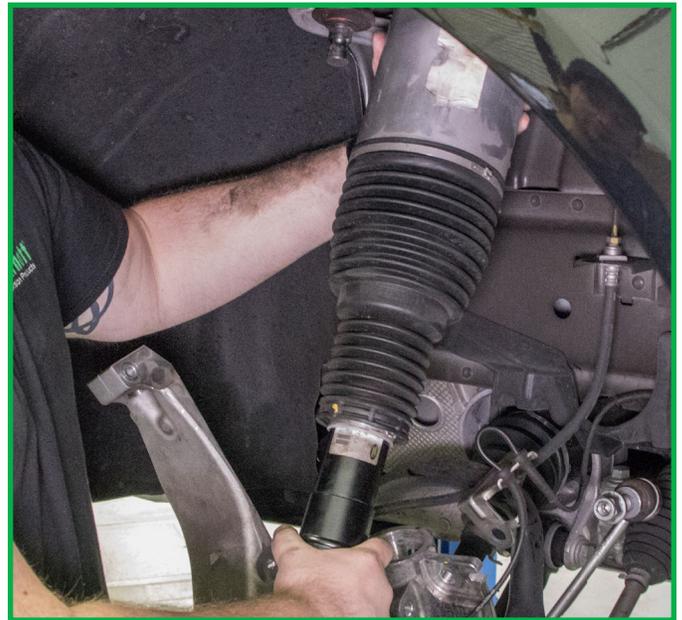


FIGURE 22

13. 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 strut into the vehicle. (Figure 23)



FIGURE 23

2. Install the four (4) top strut mounting bolts and tighten to manufacturer's specifications. (Figure 24)



FIGURE 24

3. Install the lower strut mounting bolt. (Figure 25)

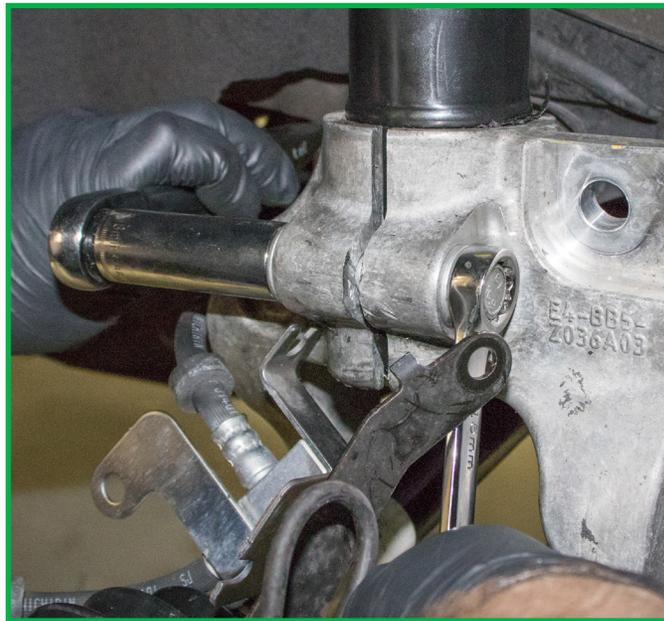


FIGURE 25

4. Reinstall the upper control arm to the spindle assembly and tighten to manufacturer's specifications. (Figures 26, 27)



FIGURE 26



FIGURE 27

5. Reinstall the sensor wire bracket and reattach the end link to the lower strut clevis. (Figures 28, 29, 30)



FIGURE 28

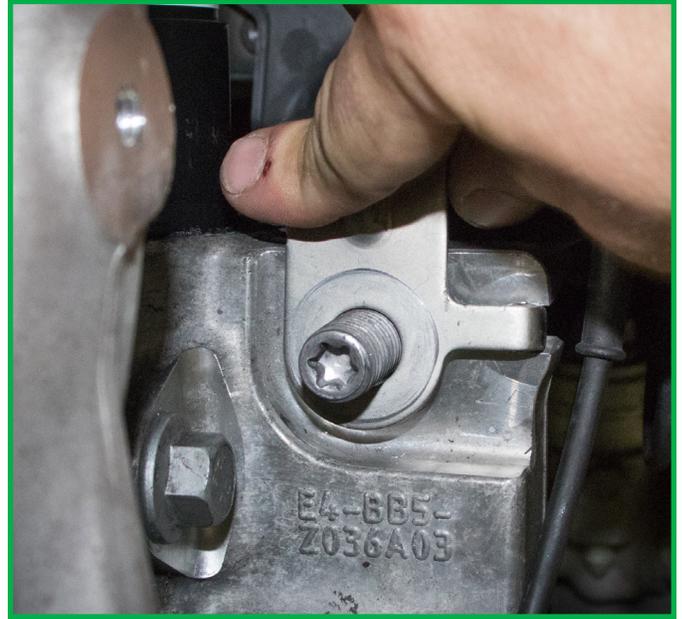


FIGURE 29

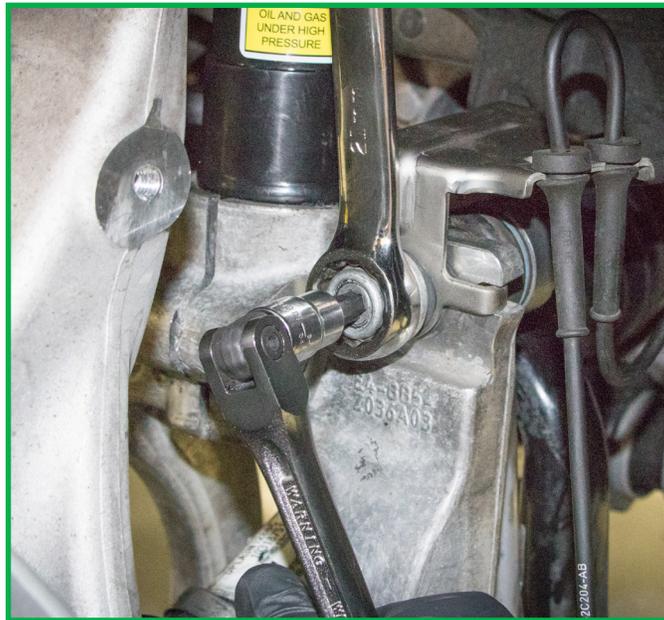


FIGURE 30

6. Re-tighten the strut clevis to manufacturer's specifications. (Figure 31)



FIGURE 31

7. Reinstall the sensor wire and brake line bracket. (Figures 32, 33)

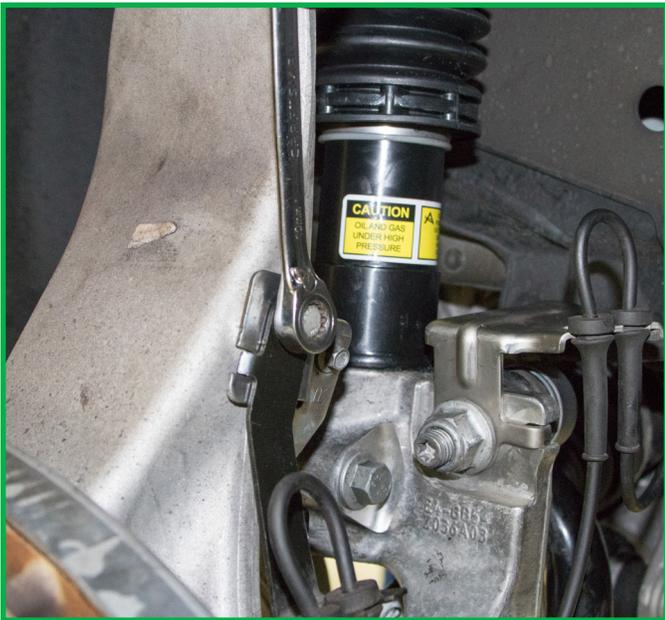


FIGURE 32

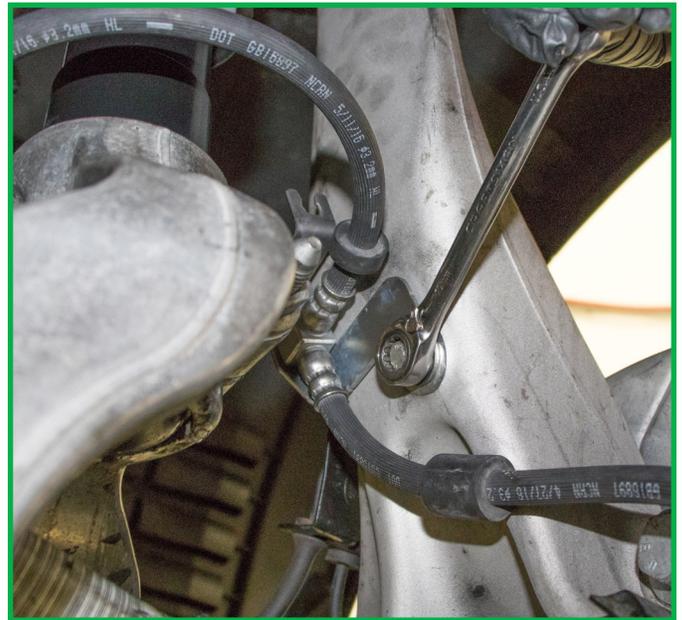


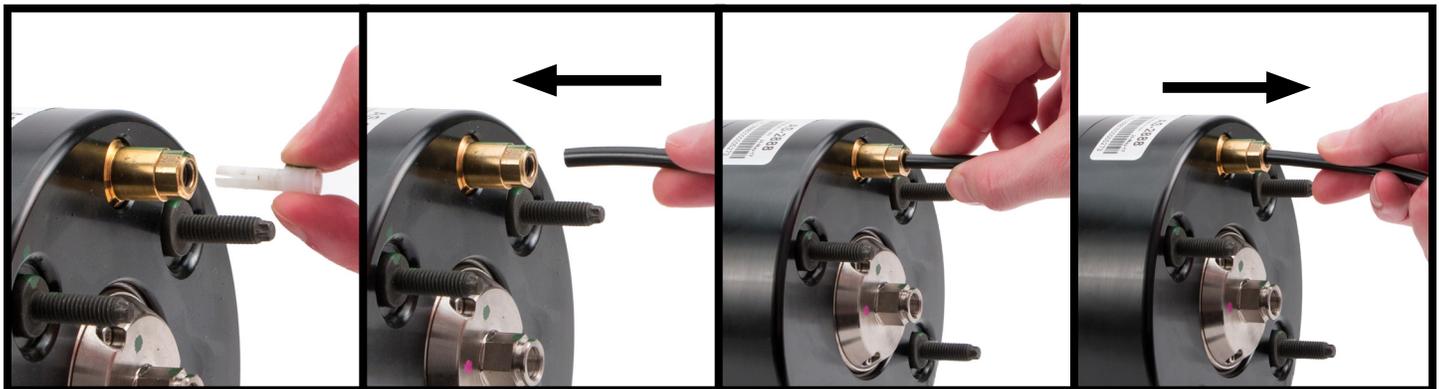
FIGURE 33

8. Remove the white plastic shipping pin from the air line fitting and discard. (Figure 34)



FIGURE 34

9. Install the air line into the air line fitting. (Figures 35, 36, 37)



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



FIGURE 36

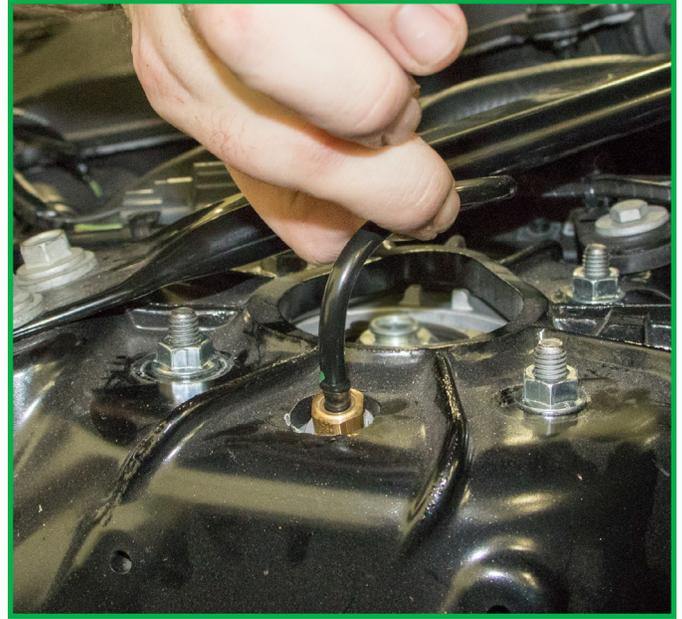


FIGURE 37

10. Reinstall the wheel.
11. Inflate air system per manufacturer's specifications.
12. Lower vehicle.
13. Installation complete.

Arnott®

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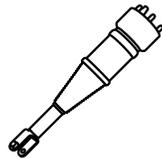
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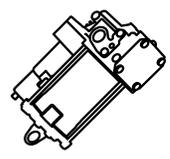
Air Springs



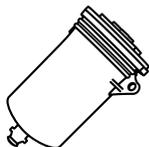
Struts



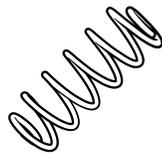
Shocks



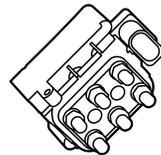
Compressors



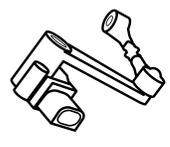
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors