



# INSTALLATION MANUAL

**ASE-5712**

**Arnott New eRide Front Electronic Air Strut  
Land Rover Defender (L663)**



**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](http://www.arnottinc.com) and [www.arnotteurope.com](http://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

**NOTE:** Use an appropriate jack throughout the removal and installation process to support the axle. Adjust as needed.

1. Set the steering to straight ahead.
2. Raise the vehicle.
3. Disable the air suspension and deflate the applicable spring according to the manufacturer's instructions.
4. Remove the applicable front wheel. (Figure 1)



FIGURE 1

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

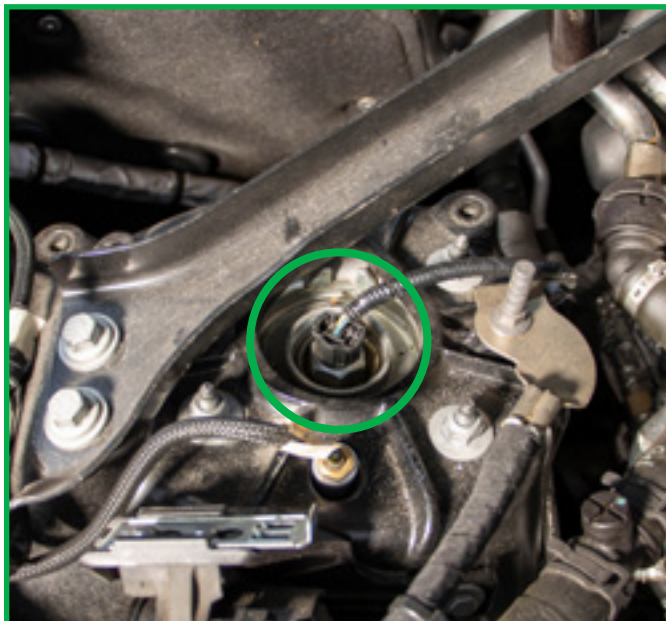


FIGURE 2

6. Loosen and disconnect the air line (Figure 3). Discard the air line fitting (Figure 4).



FIGURE 3

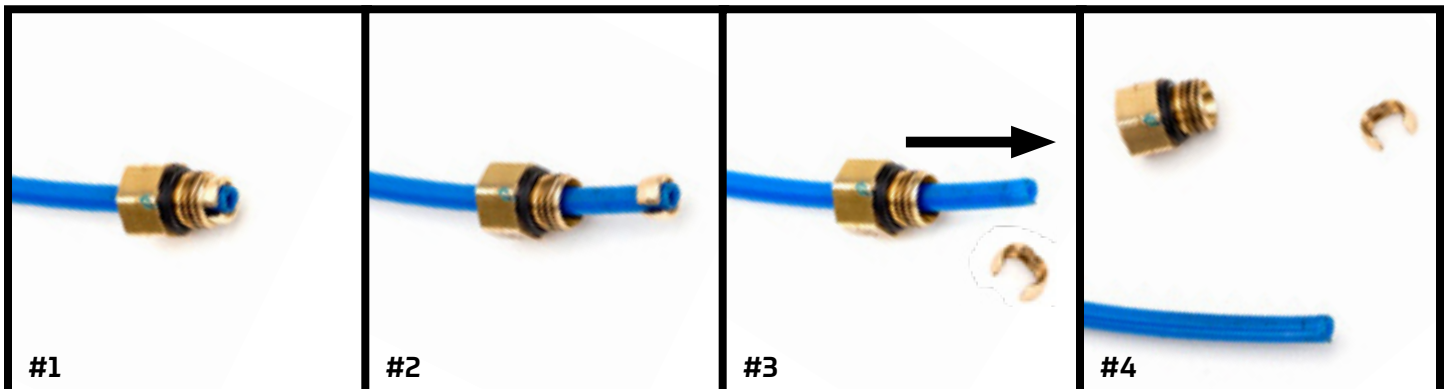
#### AIR LINE FITTING REMOVAL



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.



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

DISCARD OE AIR LINE  
FITTING

FIGURE 4

7. Carefully pull the rubber grommets of the ABS line out of place to allow the ABS line to extend. (Figure 5)



FIGURE 5

8. Remove the bolt connecting the upper control arm to the spindle. (Figures 6, 7)



FIGURE 6



FIGURE 7

9. Remove the nut attaching the brake line bracket and the top of the sway bar link to the clevis (Figures 8, 9). Carefully move the brake line bracket to the side (Figure 10). Move the top of the sway bar link out of place and to the side (Figure 11).

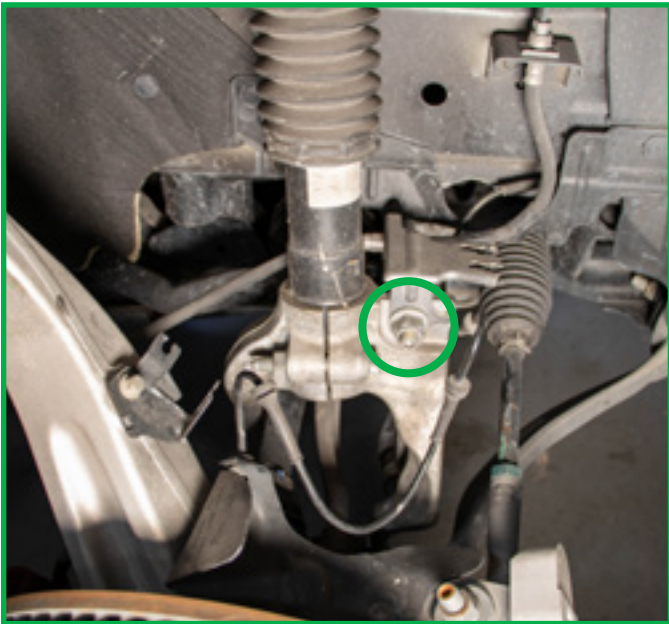


FIGURE 8



FIGURE 9



FIGURE 10



FIGURE 11

10. Remove the bolt attaching the clevis to the bottom of the strut. (Figure 12)

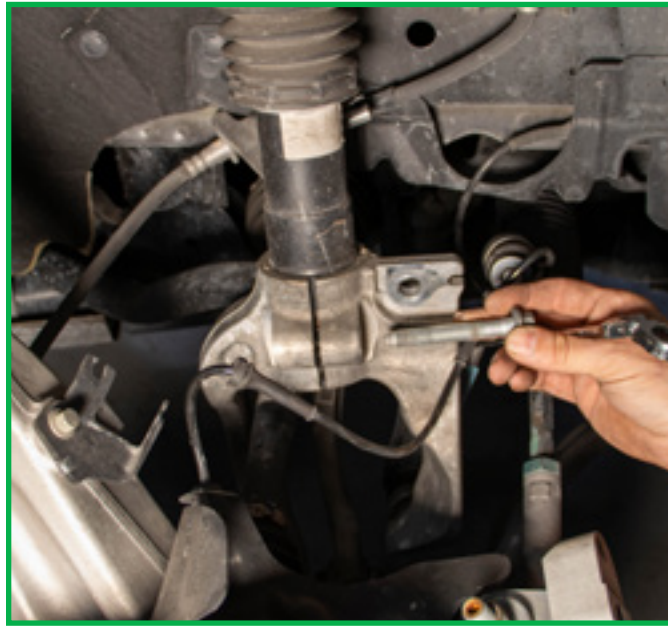


FIGURE 12

11. Remove the bolt attaching the bottom of the clevis to the lower control arm. (Figures 13, 14)

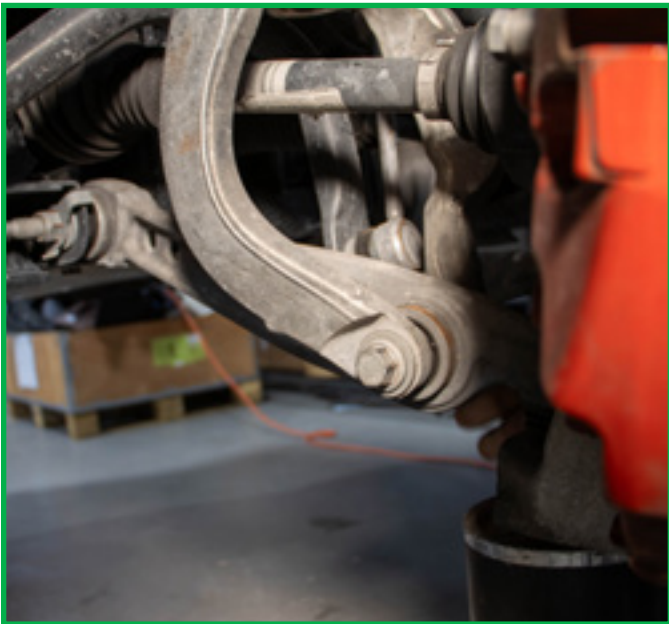


FIGURE 13

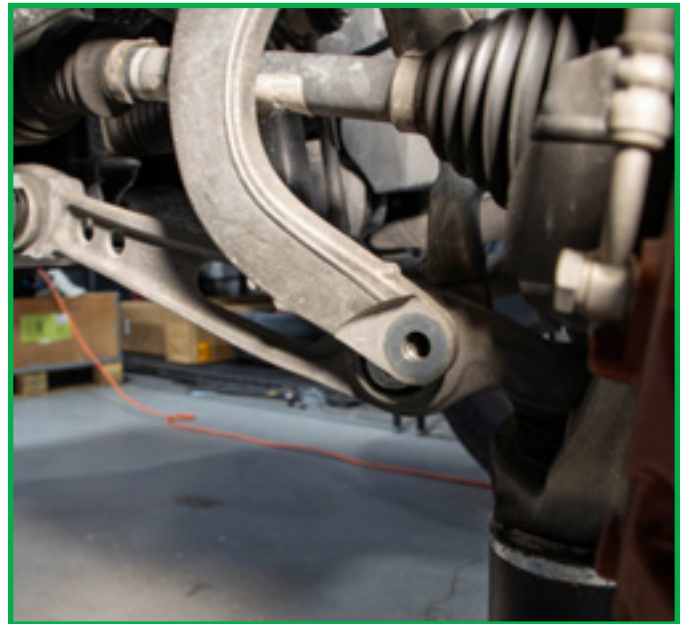


FIGURE 14

12. Remove the clevis from the bottom of the strut. (Figure 15)



FIGURE 15

13. Remove the four (4) upper mount nuts. (Figure 16)

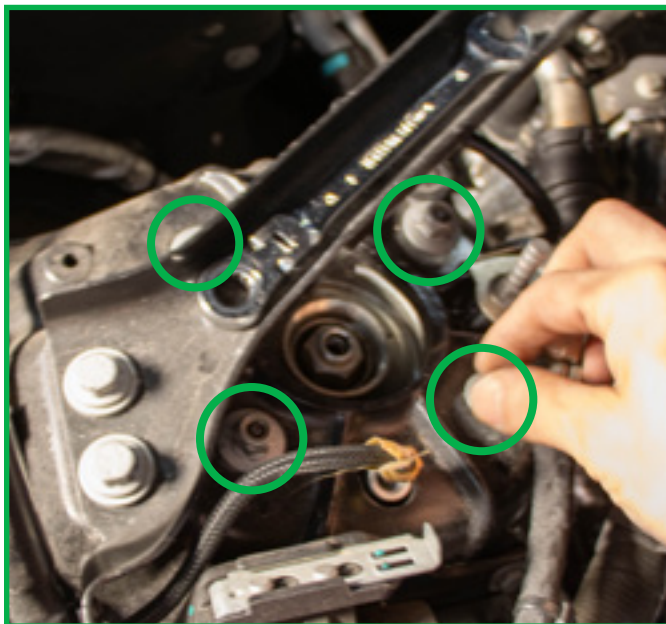


FIGURE 16

14. Remove the strut from the vehicle. (Figure 17)



FIGURE 17

15. Strut removal is complete.

# NEW eRIDE STRUT INSTALLATION



**WARNING:**

Tighten all nuts and bolts to the manufacturer's specification 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.

**NOTE:** Use an appropriate jack throughout the removal and installation process to support the axle. Adjust as needed.

1. Position the strut into the vehicle with the bottom of the strut in the clevis. (Figure 18)



FIGURE 18

2. Install the provided four (4) new upper mount bolts. Do not fully tighten yet. (Figure 19)



FIGURE 19

3. Install the bolt attaching the bottom of the clevis to the lower control arm. (Figures 13, 14)

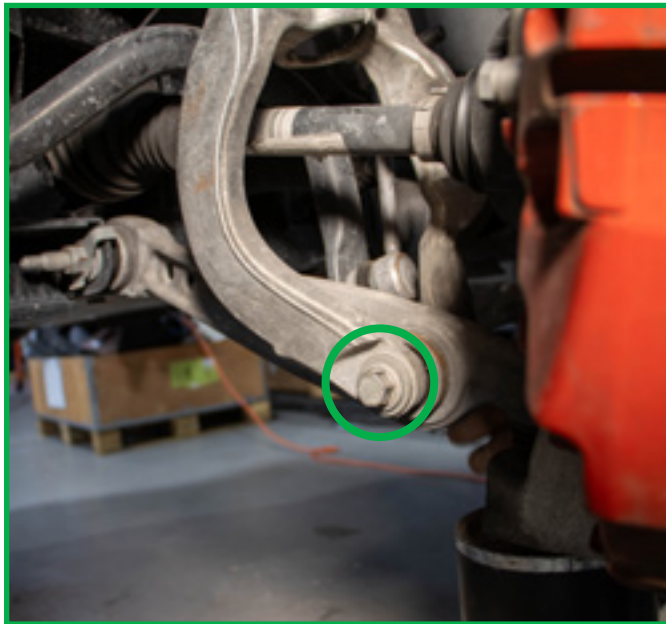


FIGURE 20

4. Install the nut attaching the brake line bracket and the top of the sway bar link to the clevis. (Figure 21)

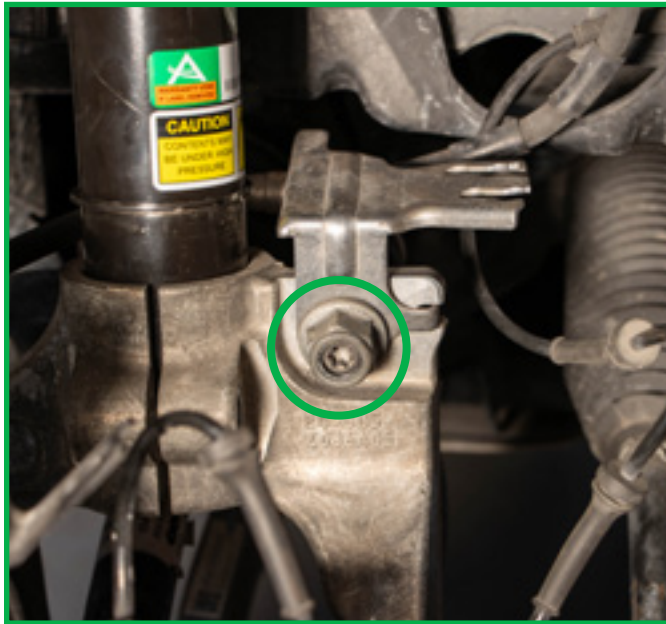


FIGURE 21

5. Install the bolt attaching the clevis to the bottom of the strut. (Figure 22)



FIGURE 22

6. Install the bolt connecting the upper control arm to the spindle. (Figure 23)

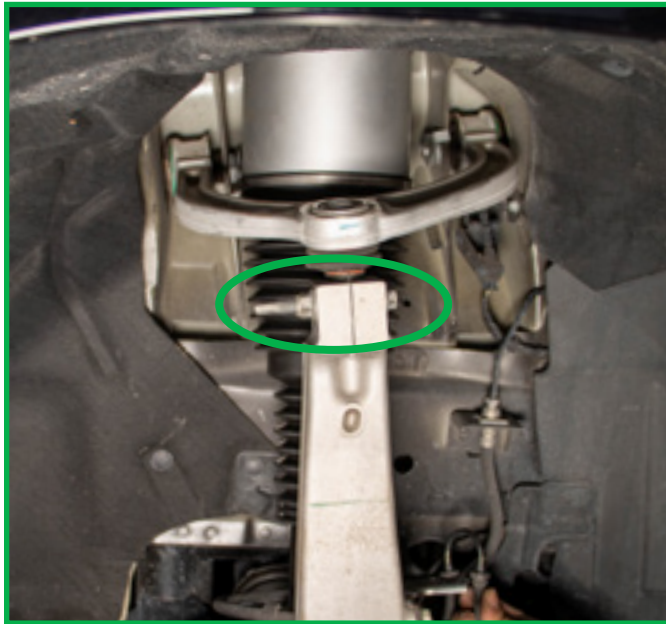


FIGURE 23

7. Reattach the three (3) rubber grommets of the ABS line back in place. (Figure 24)

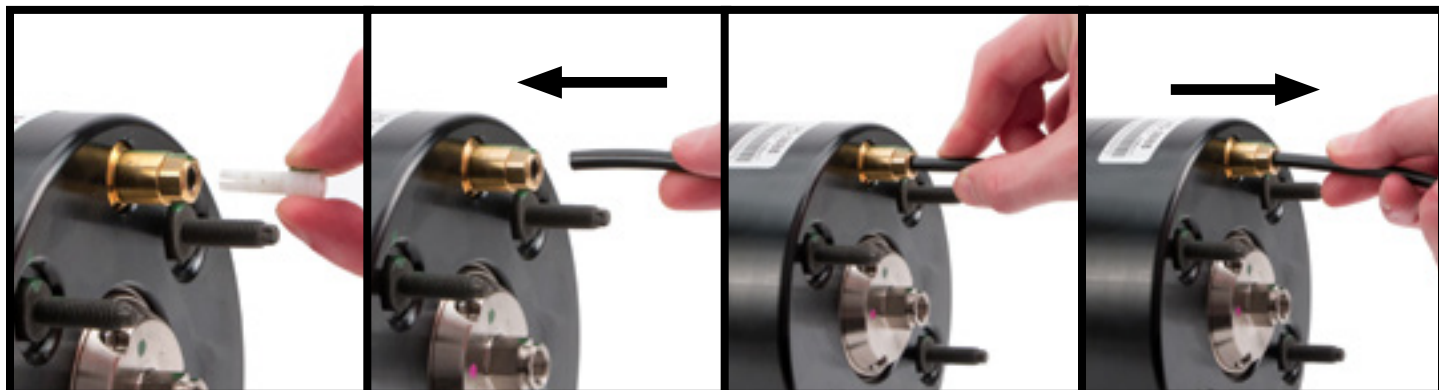


FIGURE 24

8. Tighten the four (4) upper mount bolts according to the manufacturer's specifications.

9. Remove the white shipping pin and install the air line into the air fitting. Ensure to follow the “Shipping Pin Removal and Air Line Installation” instructions. (Figures 25, 26, 27)

#### SHIPPING PIN REMOVAL AND AIR LINE INSTALLATION



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 25

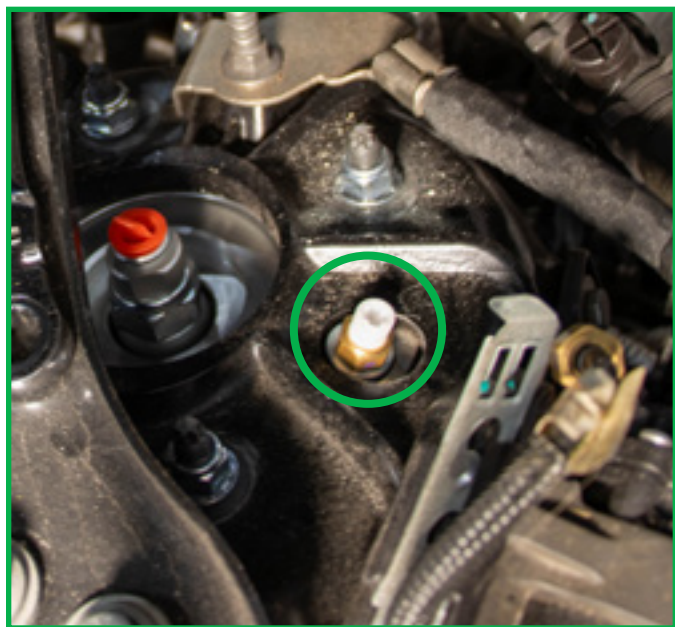


FIGURE 26



FIGURE 27

10. Remove the protective cap from the connector housing at the top of the new eRide strut (Figure 28). Connect the electrical connector to the top of the strut (Figure 29).

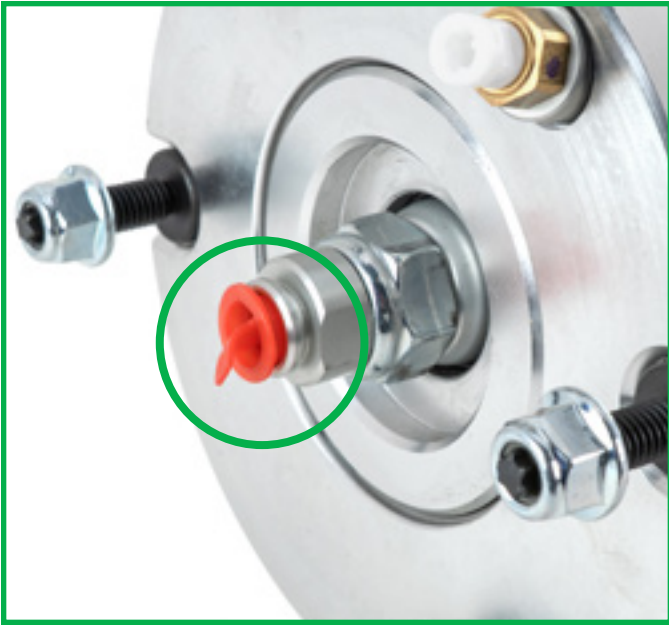


FIGURE 28



FIGURE 29

11. Reinstall the wheel.
12. Enable the air suspension and inflate the strut according to the manufacturer's instructions.
13. Lower the vehicle.
14. New eRide electronic air strut installation is complete.

# Arnott®

## Suspension Products

### Arnott US Business Office:

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Merritt Island, FL 32953

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321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

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**DE Phone:** +31 85 2087 438

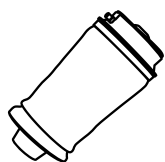
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**BE Phone:** +32 258 846 90

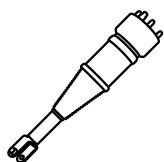
**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

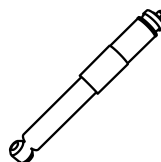
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



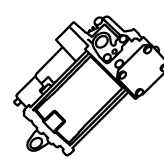
Air Springs



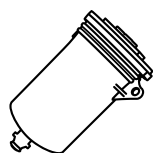
Struts



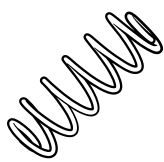
Shocks



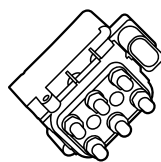
Compressors



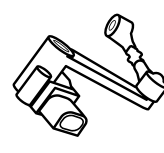
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors