



# INSTALLATION MANUAL

C-3544

Arnett New Coil Spring Conversion Kit  
Land Rover Range Rover Sport (L320 w/CVD(VDS))



Engineered to Ride, Built to Last<sup>®</sup>

# 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.

This vehicle contains 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 AIR STRUT REMOVAL

**NOTE:** Refer to the vehicle service manual for proper air system deflation procedures.

1. Remove front wheel(s) to expose the front air strut(s). (Figures 1, 2)



FIGURE 1



FIGURE 2

2. Loosen and remove the three (3) top mounting nuts. (Figure 3)



FIGURE 3

3. Loosen and remove the lower mount nut. Support the air strut and remove the lower mount bolt. (Figures 4, 5)

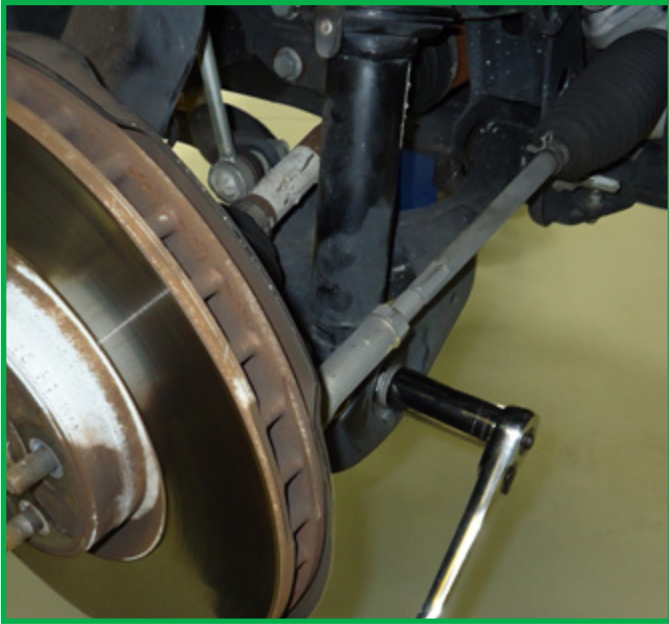


FIGURE 4



FIGURE 5

4. Carefully lower the air strut to gain access to the air line. Remove the air line fitting from the strut. (Figure 6)



FIGURE 6

5. Remove the air strut from the vehicle. (Figure 7)



FIGURE 7

6. Removal complete.

## FRONT COILOVER STRUT INSTALLATION



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

1. Secure the unused air line away from sources of friction and heat. (Figures 8, 9)



FIGURE 8



FIGURE 9

2. Install the Arnott coilover strut on the vehicle. (Figure 10)



FIGURE 10

3. Reinstall the bottom mount bolt and nut. Tighten to manufacturer's specifications. (Figures 11, 12, 13)



FIGURE 11



FIGURE 12



FIGURE 13

4. Install the three (3) provided top mount nuts and tighten to manufacturer's specifications. (Figure 14)



FIGURE 14

5. Front coilover strut installation complete.

# REAR AIR STRUT REMOVAL

**NOTE:** Refer to the vehicle service manual for proper air system deflation procedures.

1. Raise vehicle and remove rear wheel(s) to expose the rear air strut(s). (Figure 15)



FIGURE 15

2. Loosen and remove the lower mount nut. Support the air strut and remove the lower mount bolt. (Figures 16, 17)



FIGURE 16



FIGURE 17



3. Loosen and remove the three (3) top mount nuts. (Figure 18)



FIGURE 18

4. Carefully lower the air strut to gain access to the air line. Remove the air line fitting from the strut. (Figure 19)



FIGURE 19

5. Remove the air strut from the vehicle. (Figure 20)



FIGURE 20

6. Removal complete.

## REAR COILOVER STRUT INSTALLATION



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

1. Secure the unused air line away from sources of friction and heat. (Figure 21)



FIGURE 21

2. Install the Arnott coilover strut on the vehicle. (Figure 22)



FIGURE 22

3. Reinstall the bottom mount bolt and nut. Tighten to manufacturer's specifications. (Figures 23, 24, 25)



FIGURE 23



FIGURE 24



FIGURE 25

4. Install the three (3) provided top mount nuts and tighten to manufacturer's specifications. (Figure 26)

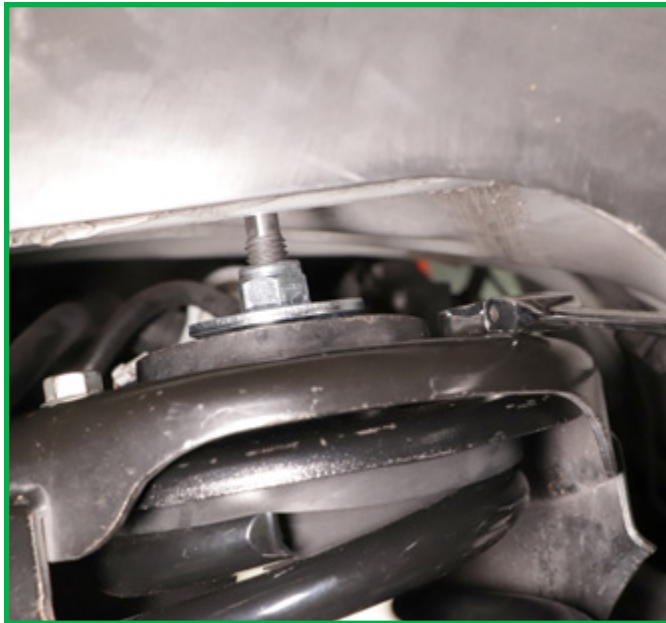


FIGURE 26

5. Front coilover strut installation complete.

# ELECTRONIC BYPASS MODULE INSTALLATION

1. Locate the air suspension control module under the driver side dash panel. (Figures 27, 28)



FIGURE 27



FIGURE 28

2. Disconnect all harnesses from the suspension control module. The module will remain unplugged. (Figure 29)



FIGURE 29

3. Using the table and photos below, match the wires and splice them together with the T-Tap connectors. (Figures 30, 31, 32)

	FROM	TO	PIN LOCATION	HARNESS
<b>ELECTRONIC BYPASS MODULE</b>	BLACK (GROUND)	BLACK	24	C2321L
	RED	LT GREEN/WHITE	20	C0867L
	BLUE	YELLOW/BROWN	17	
	GREEN	YELLOW/BLACK	18	

FIGURE 30

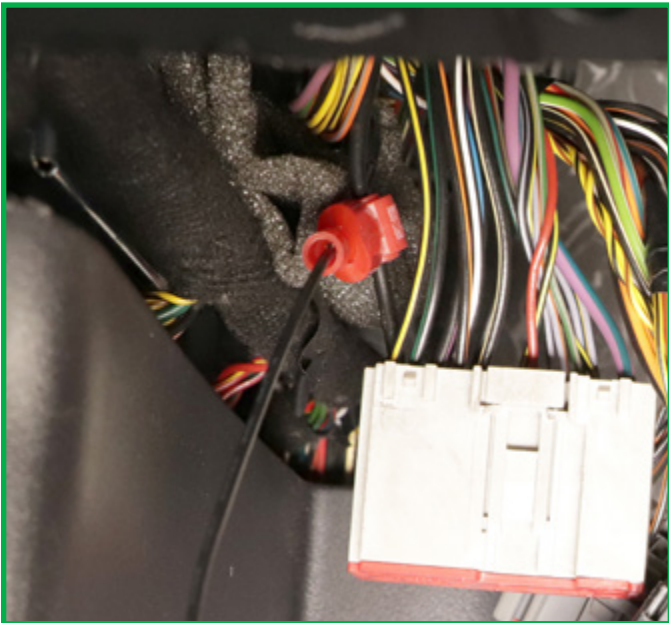


FIGURE 31

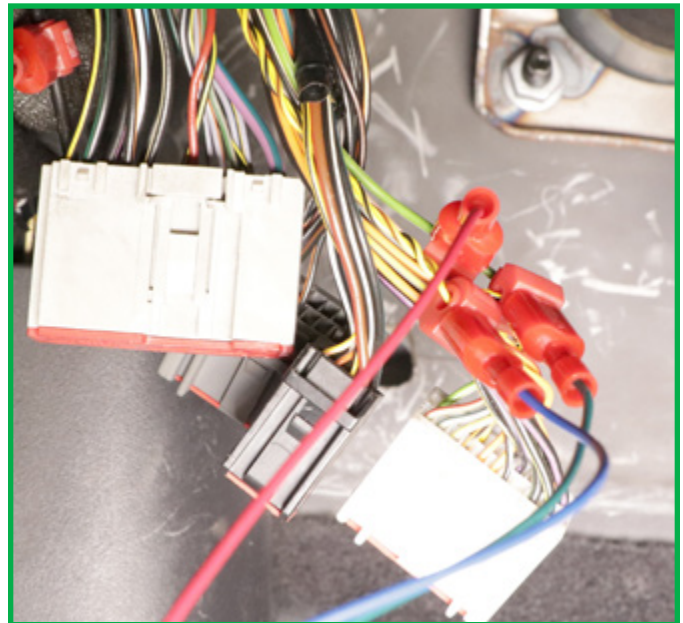


FIGURE 32

4. Connect the EBM module. The exact appearance of the module may vary from the figure below. (Figure 33)



FIGURE 33

5. Place the EBM in a suitable spot free from friction or pinch points.
6. Disconnect the CVD/VDS control module located behind the rear left interior trim panel in the cargo area. It will remain disconnected. (Figure 34)

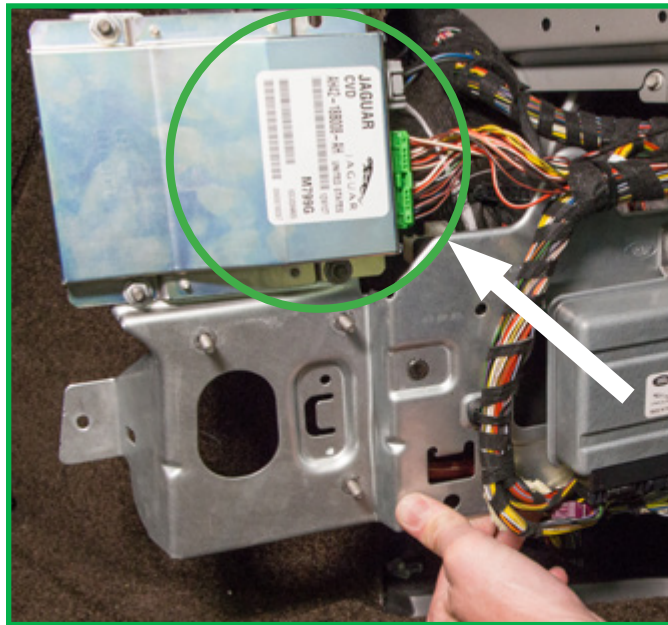


FIGURE 34

7. Installation complete.

# Arnott™

## Suspension Products

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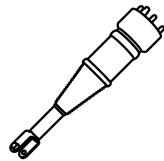
**ES Phone:** +34 91 901 10 56

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

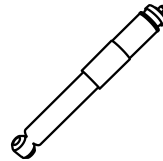
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



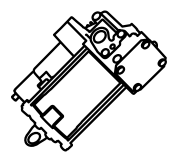
Air Springs



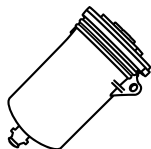
Struts



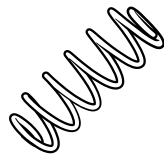
Shocks



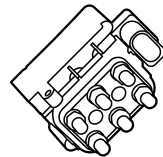
Compressors



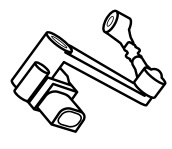
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors