



INSTALLATION MANUAL

C-3540 Arnott New Coil Spring Conversion Kit Audi A8 (D3 Chassis)



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.

FRONT AIR STRUT REMOVAL

1. Set steering to straight ahead.
2. Lift vehicle and remove wheel. (Figure 1)



FIGURE 1

3. Disconnect the air line from the check valve. (Figure 2)



FIGURE 2

4. Loosen and remove the upper control arm bolt. Remove upper arms from spindle assembly. (Figures 3, 4)



FIGURE 3

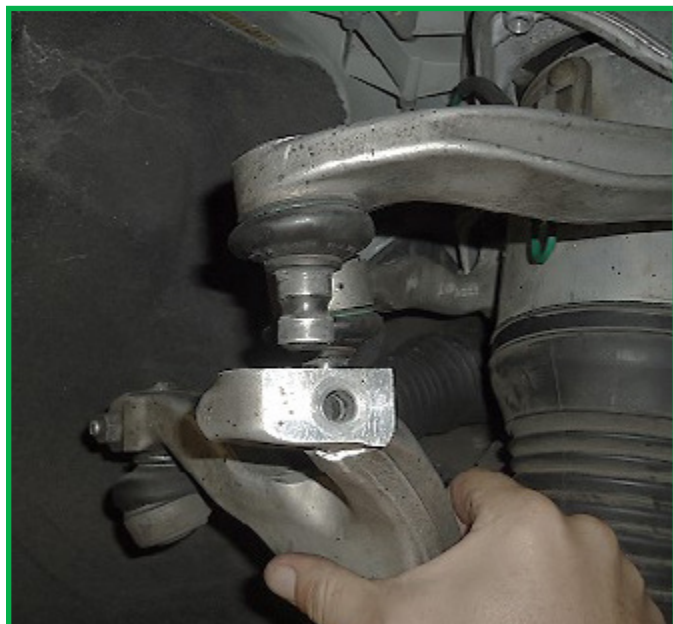


FIGURE 4

5. Loosen and remove the lower shock arm bolts. (Figure 5)



FIGURE 5

6. Raise the hood and remove applicable trim paneling to gain access to the front shock towers.

7. Locate and remove wire harness from mounting bracket. (Figure 6)

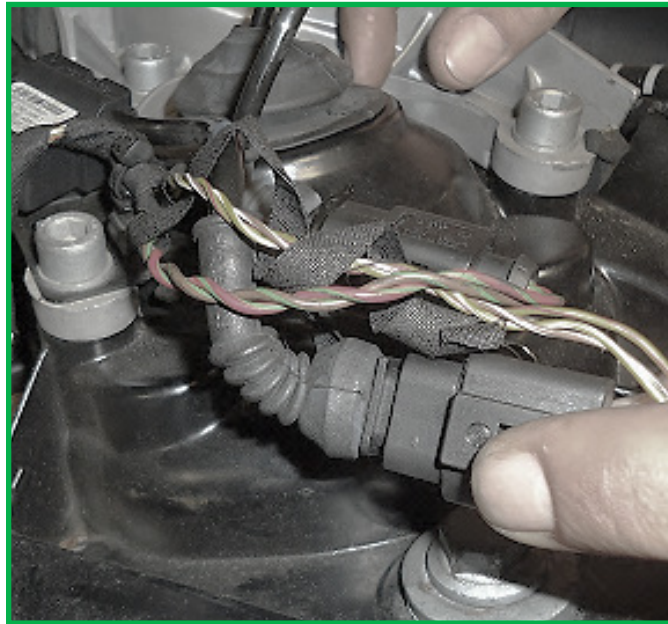


FIGURE 6

8. Disconnect the electrical connection. (Figure 7)



FIGURE 7

9. Loosen and remove the three upper shock mounting bolts. (Figure 8)



FIGURE 8

10. Now from the bottom side, slide the shock over the lower control arm. Remove shock slowly from mount area. (Figure 9)

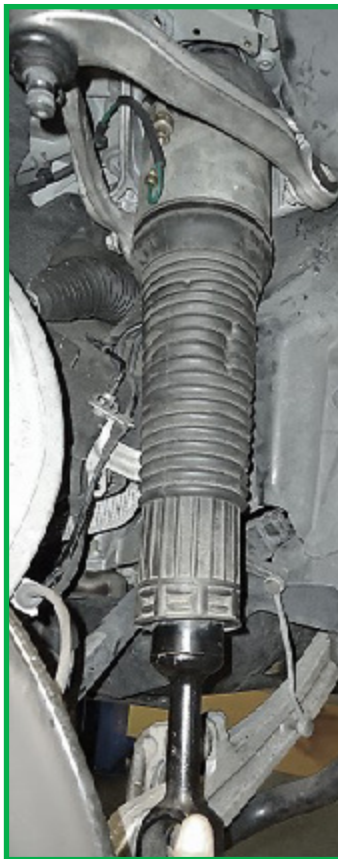


FIGURE 9

11. Carefully guide the wire through the hole while removing the shock. (Figure 10)

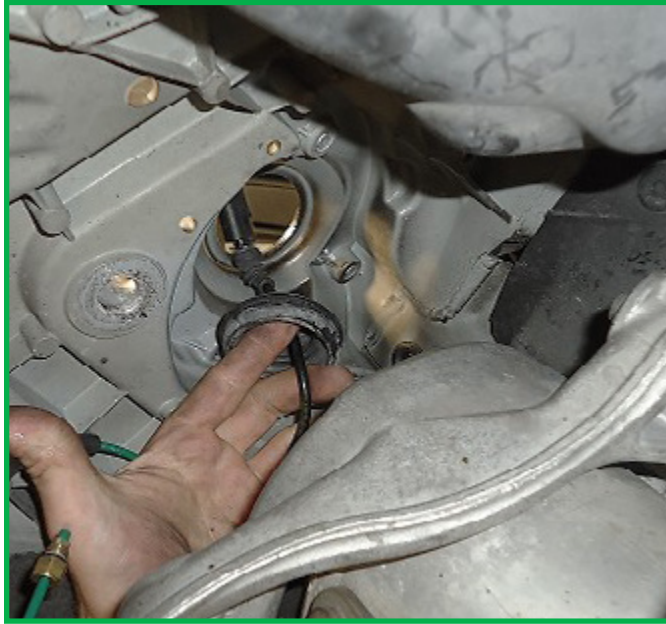


FIGURE 10

12. Loosen and remove (4) top mounting bolts from shock. (Figure 11)

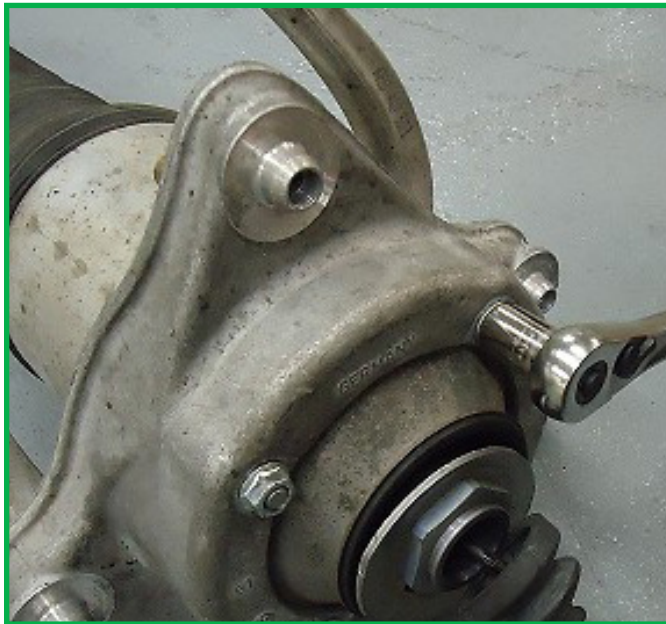


FIGURE 11

13. Remove the top section. (Figure 12)



FIGURE 12

14. Removal complete.

FRONT COIL SPRING INSTALLATION



WARNING:

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

1. Install the upper control arm bracket to the top of the new Arnott strut. (Figure 13)



FIGURE 13

2. Install the strut into the vehicle. (Figure 14)



FIGURE 14

3. Reinstall the lower strut mount bolt. (Figure 15)



FIGURE 15

4. Reconnect the ride height sensor arm. (Figure 16)

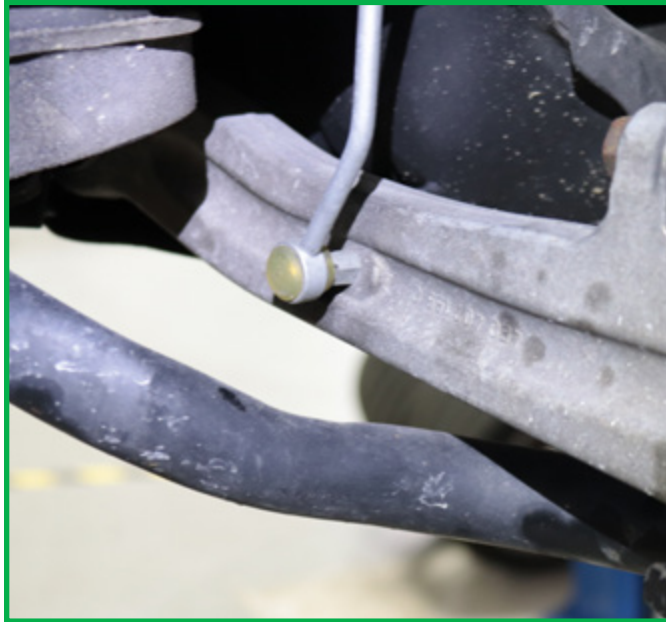


FIGURE 16

5. Reconnect the spindle to the upper control arms. (Figure 17)



FIGURE 17

6. Using an appropriate jack, lift the wheel hub to seat the upper control arm bracket into the strut tower. Ensure the top is fully seated and install the three bolts. (Figure 18)



FIGURE 18

7. Tighten all hardware to manufacturer's specifications.
8. Seal and secure the unused air lines and connectors.
9. Reinstall the wheels.
10. Installation complete.

REAR AIR STRUT REMOVAL

1. Set steering to straight ahead.
2. Raise vehicle.
3. Remove applicable rear wheel. (Figure 19)



FIGURE 19

4. Remove fender well cover to access the rear strut. (Figures 20, 21)



FIGURE 20

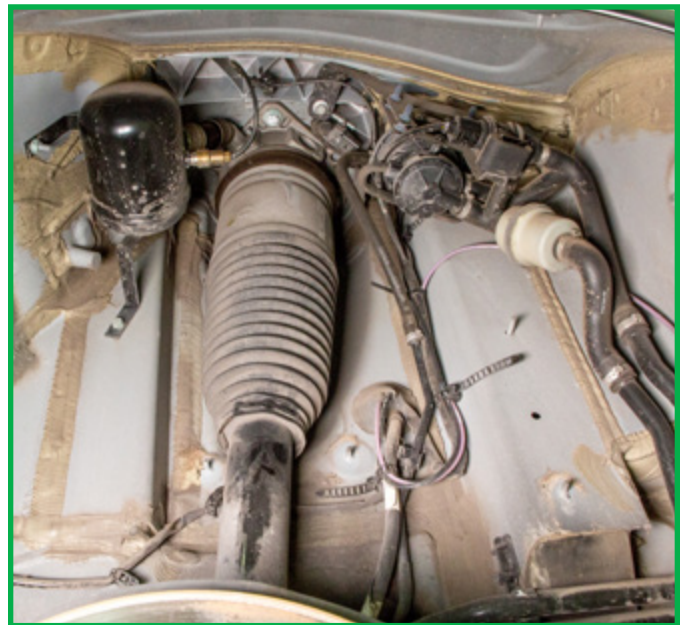


FIGURE 21

5. Locate and disconnect the electrical connector. (Figures 22, 23)

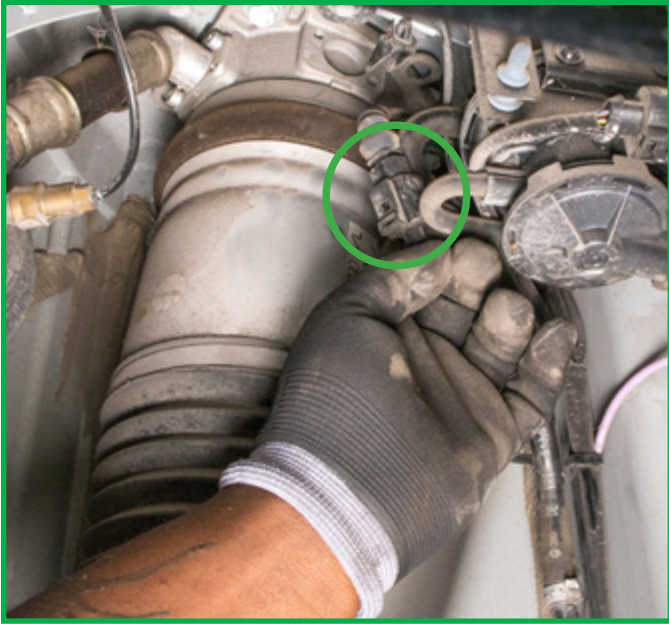


FIGURE 22

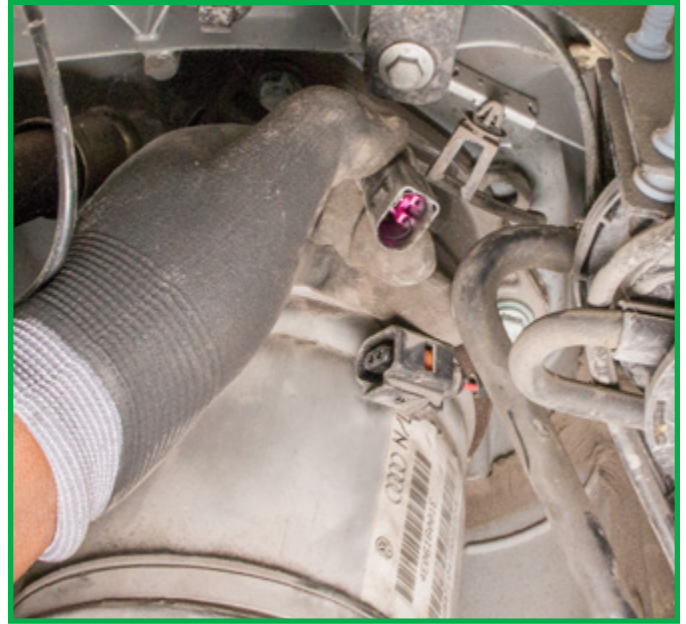


FIGURE 23

6. Disconnect air line from check valve. (Figures 24, 25)

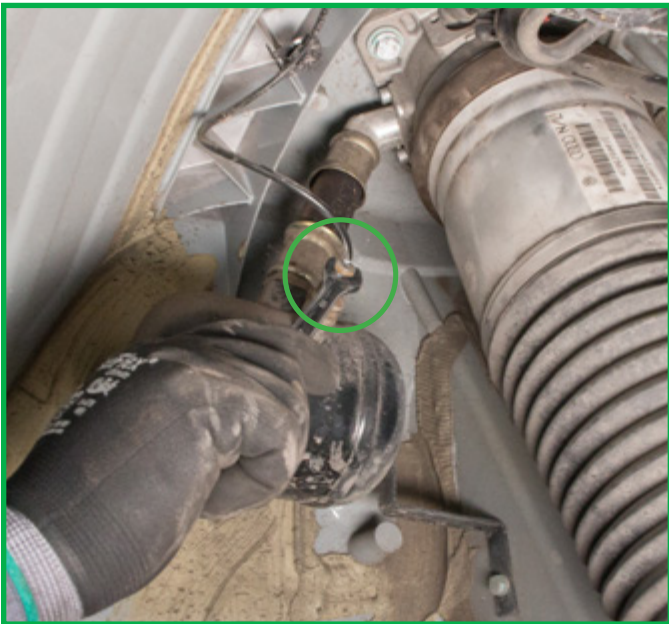


FIGURE 24



FIGURE 25

7. Remove (2) nuts securing reservoir brackets to vehicle. (Figure 26)



FIGURE 26

8. Remove (3) top bolts securing strut to vehicle. (Figure 27)

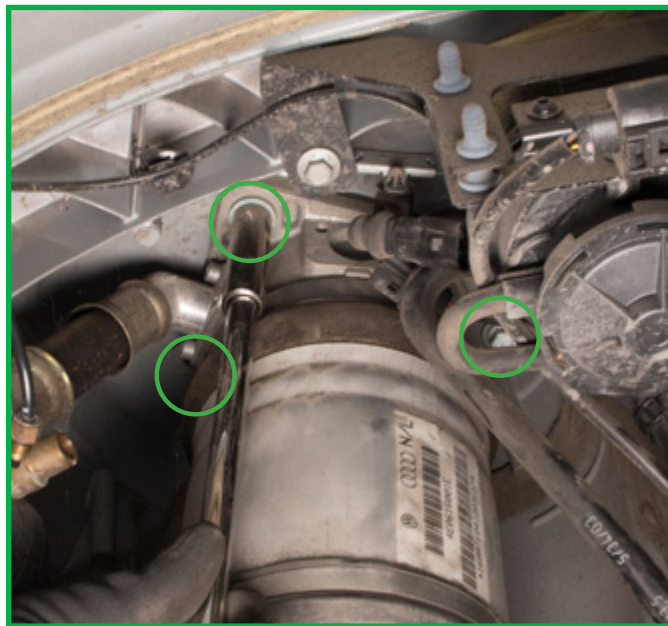


FIGURE 27

9. Remove bottom strut bolt. (Figure 28)



FIGURE 28

10. Disconnect the brake line bracket and ride height sensor. (Figures 29, 30)



FIGURE 29

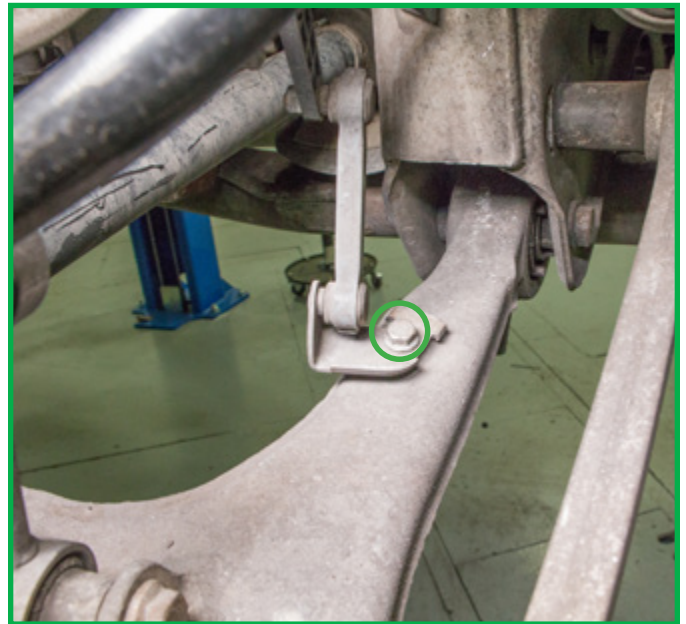


FIGURE 30

11. Remove sway bar bolt. (Figures 31, 32)

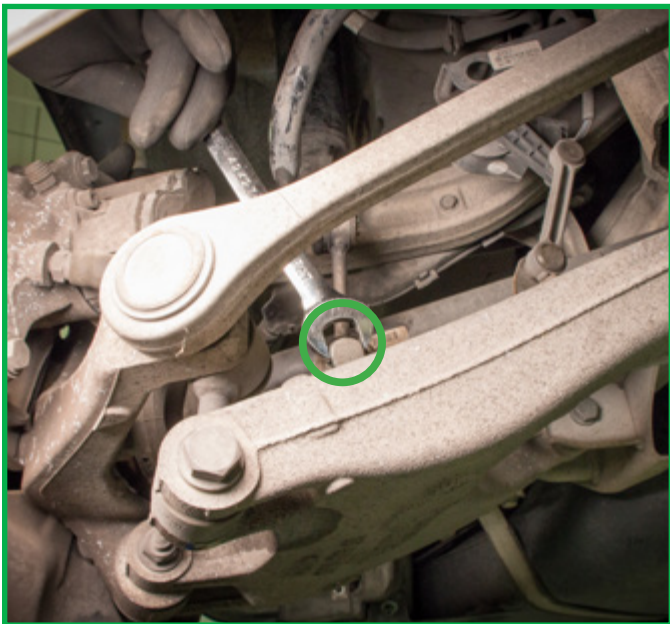


FIGURE 31

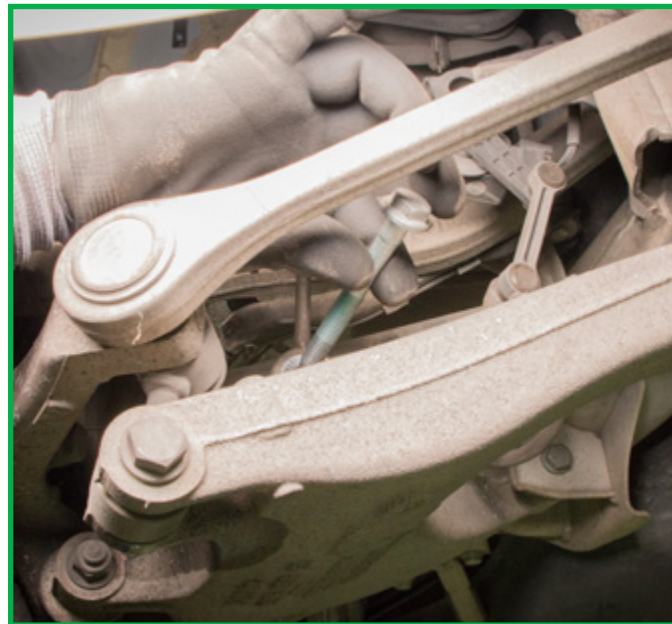


FIGURE 32

12. Using a breaker bar for leverage, lift strut up and over the upper control arm. (Figure 33)



FIGURE 33

13. Remove strut from vehicle. (Figure 34)



FIGURE 34

14. Removal complete.

REAR COIL SPRING INSTALLATION



WARNING:

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

1. Install the new Arnott strut into the vehicle. (Figure 35)



FIGURE 35

2. Install the three top bolts. (Figures 36, 37)



FIGURE 36



FIGURE 37

3. Install the lower strut bolt. (Figure 38)



FIGURE 38

4. Reconnect the brake line bracket to the lower control arm. (Figure 39)



FIGURE 39

5. Reconnect the sway bar link. (Figure 40)



FIGURE 40

6. Reconnect the ride height sensor arm. (Figure 41)

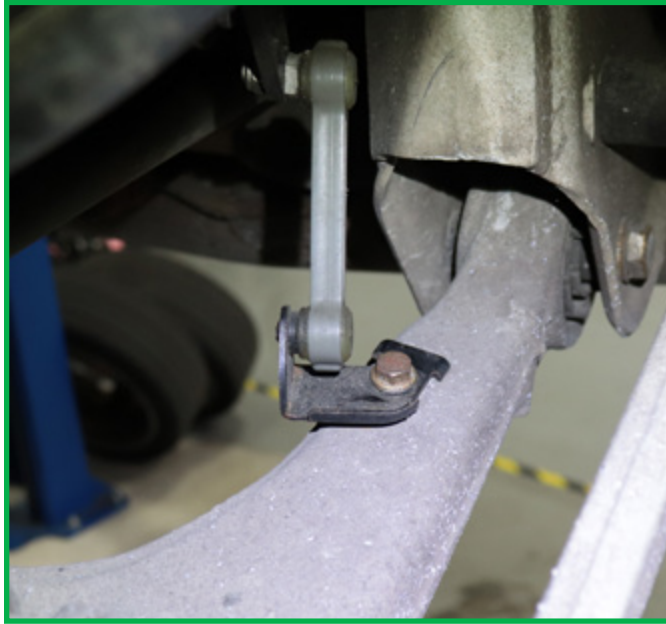


FIGURE 41

7. Tighten all hardware to manufacturer's specifications.
8. Seal and secure the unused air lines and connectors.
9. Reinstall the wheels.
10. Installation complete.

ELECTRONIC BYPASS MODULE INSTALLATION



WARNING:

Follow manufacturer's instructions to disable airbags prior to performing these steps.

1. Remove the glove box and applicable trim from the passenger side dashboard. (Figure 42)



FIGURE 42

2. Disconnect the two harnesses from the level control module. (Figures 43, 44)



FIGURE 43



FIGURE 44

3. Splice the wires into harness A (the longer harness) using the supplied T-Taps, according to the table below. (Figure 45)



FIGURE 45

	From	To	Connector #	Pin #	
EBM HARNESS	Red	Black/Yellow Strip	A	A3	VEHICLE'S WIRING HARNESS
	Black	Brown	A	A1/A2	
	Blue	Orange/Black Wire	A	A61	
	Green	Orange/Brown Wire	A	A81	

4. Connect the EBM to the EBM harness. Secure the EBM in a suitable location. (Figure 46)



FIGURE 46

5. Do not plug the level control module back in.
6. Reinstall glove box and trim.
7. Installation complete.

Arnott™

Suspension Products

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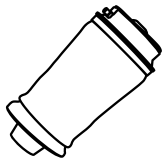
UK Phone: +44 203 3186 124

BE Phone: +32 258 846 90

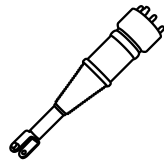
ES Phone: +34 91 901 10 56

FR Phone: +32 78 48 46 93

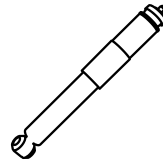
Email: info@arnotteurope.com



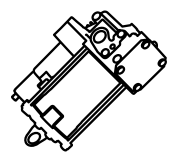
Air Springs



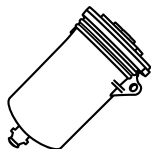
Struts



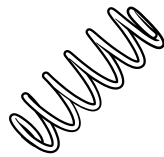
Shocks



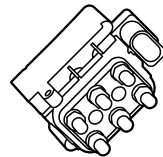
Compressors



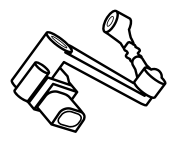
Dryers



Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors