



INSTALLATION MANUAL

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



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.arnottsuspension.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.

A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION

FRONT AIR STRUT REMOVAL

1. Set the steering to straight ahead.
2. Safely raise the vehicle according to the manufacturer's instructions.
3. Deflate and disable the air suspension system according to the manufacturer's instructions.
4. Remove the front wheels. (Figure 1)



FIGURE 1

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



FIGURE 2

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



FIGURE 3



FIGURE 4

7. Disconnect the ride height sensor arm. (Figure 5)

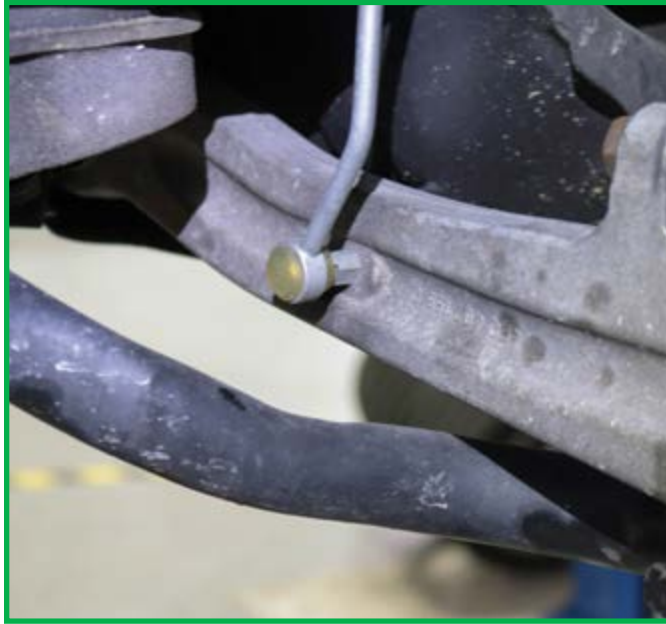


FIGURE 5

8. Loosen and remove the lower shock arm bolts. (Figure 6)



FIGURE 6

9. Raise the hood and remove applicable trim paneling to gain access to the front shock towers.
10. Locate and remove wire harness from mounting bracket. (Figure 7)



FIGURE 7

11. Disconnect the electrical connection. (Figure 8)



FIGURE 8

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



FIGURE 9

13. From the bottom side, slide the shock over the lower control arm. Slowly remove the shock while carefully guiding the wire through the hole at the top mount. (Figures 10, 11)



FIGURE 10



FIGURE 11

14. Loosen and remove (4) top mounting bolts from the strut. (Figure 12)



FIGURE 12

15. Remove the upper control arm bracket . (Figure 13)



FIGURE 13

16. Front strut removal complete.

FRONT COILOVER STRUT 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 14)



FIGURE 14

2. Install the strut into the vehicle. (Figure 15)



FIGURE 15

3. Reinstall the lower strut mount bolt. (Figure 16)



FIGURE 16

4. Reconnect the ride height sensor arm. (Figure 17)

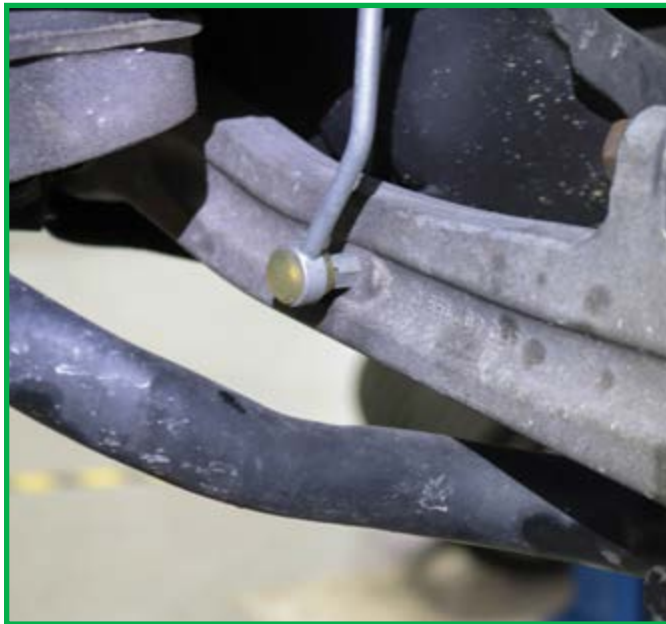


FIGURE 17

5. Reconnect the spindle to the upper control arms. (Figure 18)



FIGURE 18

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 19)



FIGURE 19

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. Ensure the vehicle is properly raised according to the manufacturer's instructions.
2. Ensure the air suspension is deflated and deactivated according to the manufacturer's instructions.
3. Remove the rear wheels. (Figure 20)



FIGURE 20

4. Remove fender well cover to access the rear strut. (Figures 21, 22)



FIGURE 21



FIGURE 22

5. Disconnect the electrical connector. (Figures 23, 24)

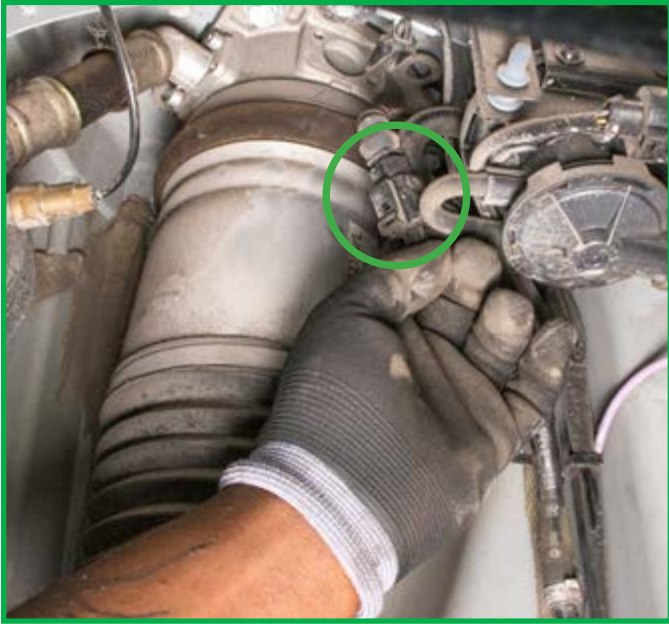


FIGURE 23

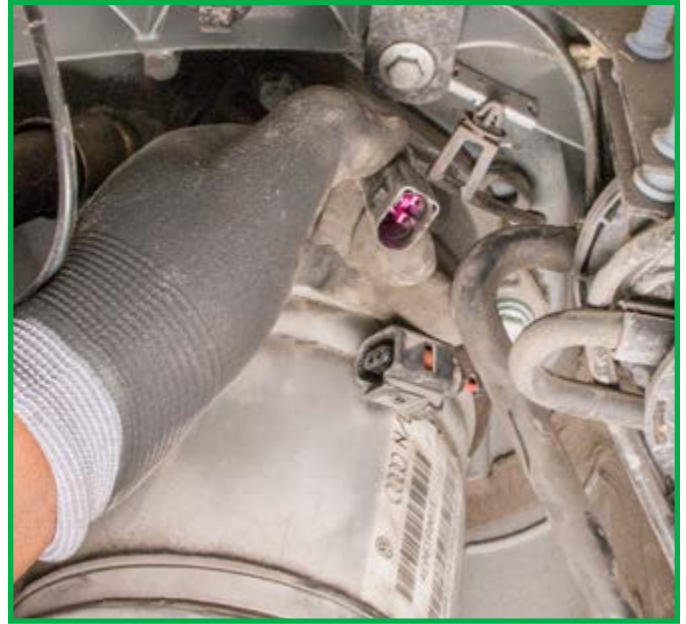


FIGURE 24

6. Disconnect air line from check valve. (Figures 25, 26)

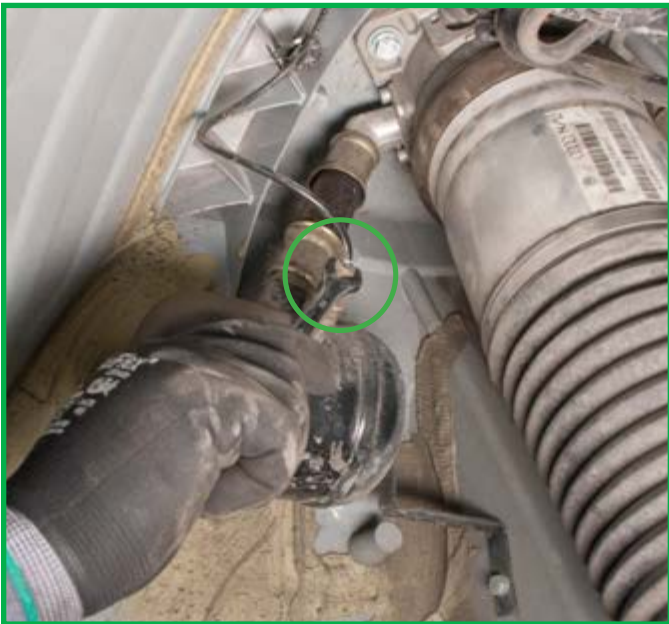


FIGURE 25



FIGURE 26

7. Remove the two (2) nuts securing reservoir brackets to the vehicle. (Figure 27)



FIGURE 27

8. Remove the three (3) top mounting bolts securing the strut to the vehicle. (Figure 28)

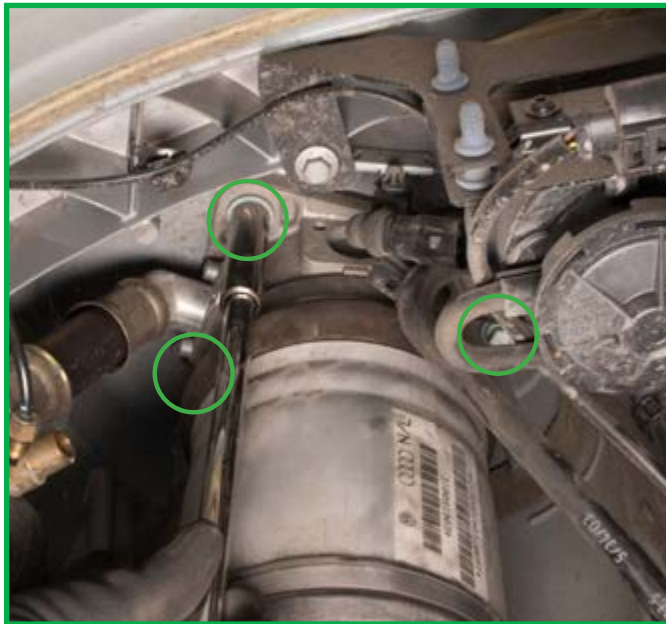


FIGURE 28

9. Remove bottom strut bolt. (Figure 29)



FIGURE 29

10. Disconnect the brake line bracket and ride height sensor. (Figures 30, 31)



FIGURE 30



FIGURE 31

11. Remove sway bar bolt. (Figures 32, 33)

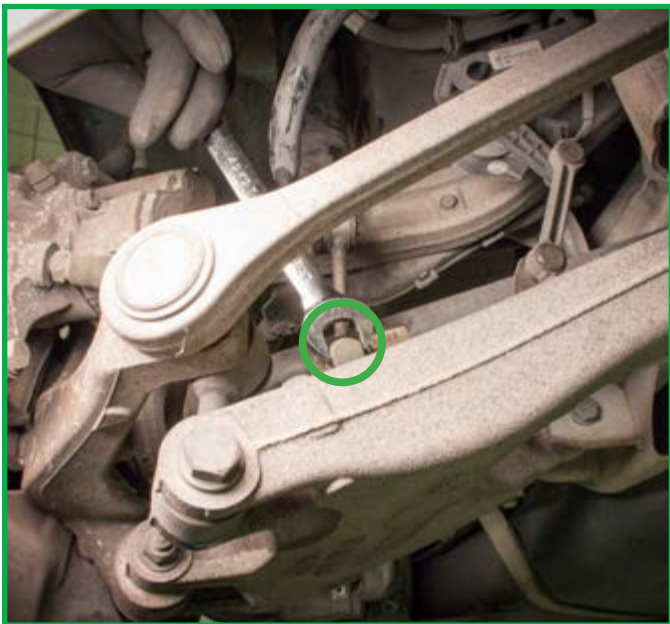


FIGURE 32

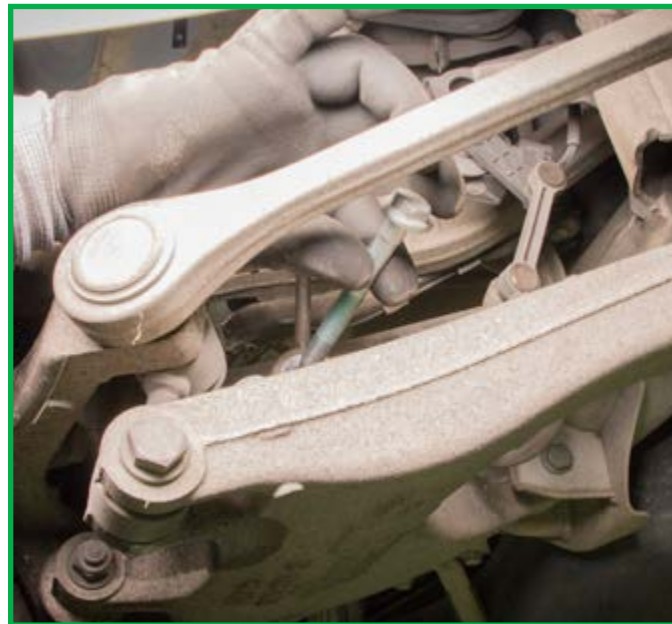


FIGURE 33

12. Using a breaker bar for leverage, lift strut up and over the upper control arm. (Figure 34)



FIGURE 34

13. Remove strut from vehicle. (Figure 35)



FIGURE 35

14. Rear strut removal complete.

REAR COILOVER STRUT 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 36)



FIGURE 36

2. Install the three (3) top mounting bolts. (Figures 37, 38)



FIGURE 37



FIGURE 38

3. Install the lower strut bolt. (Figure 39)



FIGURE 39

4. Reconnect the brake line bracket to the lower control arm. (Figure 40)



FIGURE 40

5. Reconnect the sway bar link. (Figure 41)



FIGURE 41

6. Reconnect the ride height sensor arm. (Figure 42)



FIGURE 42

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

ELECTRONIC BYPASS MODULE (EBM) 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 43)



FIGURE 43

2. Disconnect the two harnesses from the level control module. (Figures 44, 45)



FIGURE 44



FIGURE 45

3. According to the table below, splice the EBM harness wires to **harness A** (the longer harness) using the four (4) supplied heat-shrink butt connectors. (Figure 46, 47)

	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	

FIGURE 46

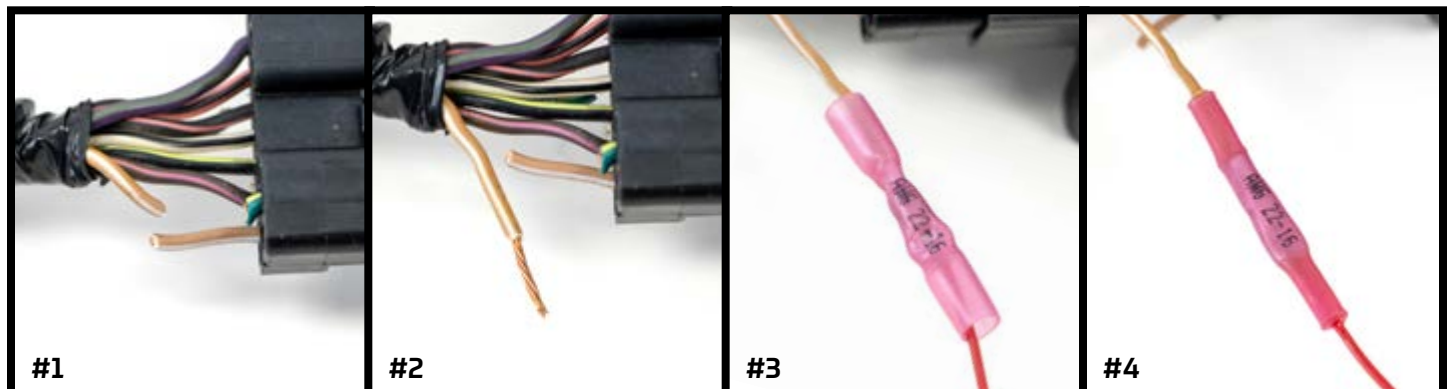
HEAT-SHRINK BUTT CONNECTOR INSTALLATION



BEFORE CUTTING

Verify you are working with the correct wires. Check the manufacturer's wiring diagram for your specific vehicle.

NOTE: Make all new connections to the **HARNESS SIDE**, not the connector side.



#1
IDENTIFY AND CUT THE APPLICABLE WIRE TO THE CONTROL MODULE.

#2
STRIP 10MM OF INSULATION WITH A SUITABLE TOOL. TWIST EXPOSED WIRE.

#3
INSERT THE WIRE INTO THE BUTT CONNECTOR AND CRIMP ACCORDING TO THE TABLE ABOVE.

#4
USE AN APPROPRIATE TOOL TO HEAT SHRINK.

FIGURE 47

4. Connect the EBM to the EBM harness. (Figure 48)



FIGURE 48

5. Secure the EBM in a suitable location, away from friction or pinch points.

NOTE: Do not plug the suspension control modules back in. They remain unplugged. There should be no suspension error lights present in the instrument cluster.

6. Reinstall glove box and trim.
7. Installation complete.

**A 4-WHEEL ALIGNMENT
IS RECOMMENDED AFTER INSTALLATION**

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<https://bit.ly/4cJCPpH>

NEED IMMEDIATE SUPPORT?

We're happy to help! Reach out using the contact information above.