



INSTALLATION MANUAL

C-3552

Arnott New Coil Spring Conversion Kit w/EBM
Porsche Cayenne (92A 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.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.



NOTICE



The included EBM is only suitable for vehicles
WITHOUT adaptive headlamps.

Proceeding with installation will result in headlamp
error messages.

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling [800-251-8993](tel:800-251-8993) during normal business hours or email techassistance@arnottinc.com.
(In the EU please call [+31 \(0\)73 7850 580](tel:+31-073-7850-580) or email info@arnotteurope.com)

A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION

NOTE: 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

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. Open the hood and remove applicable engine bay trim to access the strut's top mount and electrical connector. (Figures 2, 3, 4)



FIGURE 2



FIGURE 3



FIGURE 4

6. Remove engine strut damper. (Figures 5, 6, 7)



FIGURE 5



FIGURE 6



FIGURE 7

7. Disconnect the electrical connection to the strut. (Figures 8, 9)



FIGURE 8



FIGURE 9

8. Loosen and remove the strut's top mounting nuts. (Figure 10)



FIGURE 10

9. Loosen and remove air line, then remove and discard OE air fitting. (Figures 11)



FIGURE 11

10. Disconnect the height sensor linkage. (Figures 12, 13)



FIGURE 12



FIGURE 13

11. Disconnect the brake hose grommet. (Figure 14)



FIGURE 14

12. Disconnect the ABS sensor grommet and connection. (Figures 15, 16)



FIGURE 15



FIGURE 16

13. Separate the ball joint from the spindle assembly. (Figures 17, 18)



FIGURE 17



FIGURE 18

14. Loosen and remove the top sway bar end link bolt and nut. (Figures 19, 20)



FIGURE 19



FIGURE 20

15. Loosen the bottom sway bar end link nut, but do not remove. (Figure 21)



FIGURE 21

16. Loosen and remove the lower strut bolt. (Figures 22, 23)

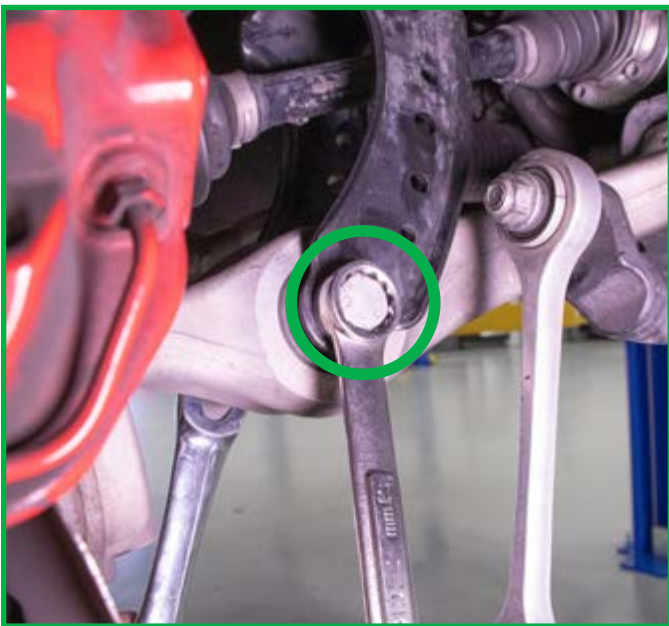


FIGURE 22



FIGURE 23

17. Remove strut from vehicle. (Figure 24)



FIGURE 24

18. 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 new Arnott coil strut into the vehicle. (Figure 25, 26)



FIGURE 25



FIGURE 26

2. Position the strut lower mount to the lower control arm and insert the lower mount bolt. Do not tighten at this time. (Figure 27)



FIGURE 27

3. Using an appropriate jack, raise the wheel hub to normal ride height. Ensure the top mount seats properly in the strut tower.
4. Connect the spindle to the upper control arm. Tighten to manufacturer's specifications. (Figure 28)



FIGURE 28

5. Connect the sway bar link to the strut. Tighten to manufacturer's specifications. (Figure 29)



FIGURE 29

6. Tighten the bottom sway bar end link nut to manufacturer's specifications. (Figure 30)



FIGURE 30

7. Reroute the wiring harnesses and brake lines. Reconnect the height sensor link and ABS sensor harness. (Figure 31)



FIGURE 31

8. Install the three (3) supplied top strut mounting nuts and tighten to manufacturer's specifications. (Figure 32)



FIGURE 32

9. Reinstall engine strut damper. (Figures 33, 34, 35)



FIGURE 33



FIGURE 34



FIGURE 35

10. Under the hood, reinstall the side trim cover. (Figure 36)



FIGURE 36

11. Tighten the lower mount bolt to the manufacturer's specifications.
12. Seal off and secure unused air lines and harness connections.
13. Reinstall wheels.
14. Front strut installation complete.

REAR AIR STRUT REMOVAL

1. Open rear cargo hatch and remove applicable side paneling. (Figures 37, 38, 39, 40)



FIGURE 37



FIGURE 38



FIGURE 39



FIGURE 40

2. Ensure the air suspension system has been disabled and deflated.

3. Raise the vehicle according to the manufacturer's specifications and remove the rear wheels. (Figure 41)



FIGURE 41

4. Remove the air line. (Figure 42)



FIGURE 42

5. Disconnect the electrical connection to the strut. (Figure 43)



FIGURE 43

6. Remove the bottom mount bolt. (Figures 44, 45)



FIGURE 44



FIGURE 45

7. Remove the bottom mount of the strut from the wheel carrier. (Figure 46)



FIGURE 46

8. Remove the four (4) top mount screws. Note the positions of the different length screws for installation. It may be necessary to use a hydraulic jack for assistance. (Figures 47, 48, 49, 50)



FIGURE 47



FIGURE 48

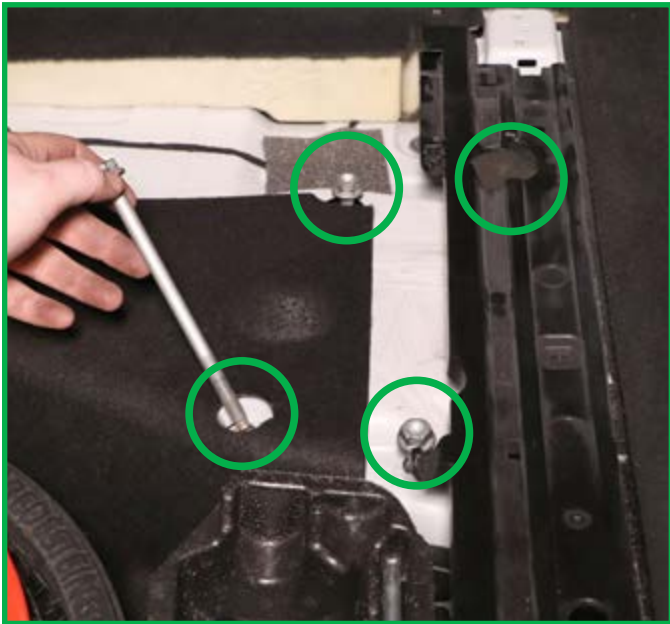


FIGURE 49



FIGURE 50

9. Remove the strut from the vehicle. (Figures 51, 52)



FIGURE 51



FIGURE 52

10. 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 coil strut into the vehicle. (Figures 53, 54)



FIGURE 53



FIGURE 54

2. With an assistant, pull down on the wheel hub to position the lower strut mount into the wheel knuckle. Install the lower mount bolt; do not tighten at this time. (Figure 55)



FIGURE 55

3. Use an appropriate jack to lift the wheel hub to normal ride height. Ensure the upper mounts seat into the body properly.
4. Install the upper mount bolts. Tighten to manufacturer's specifications. (Figure 56)



FIGURE 56

5. Tighten the lower mount bolt to manufacturer's specifications. (Figure 57)



FIGURE 57

6. Seal off and secure unused air lines and electrical connections.
7. Reinstall the wheels.
8. Rear coilover strut installation complete.

ELECTRONIC BYPASS MODULE (EBM) INSTALLATION

NOTE: The included EBM does not apply to vehicles equipped with adaptive headlight leveling. Installing on vehicles equipped with adaptive headlight leveling will result in headlamp error messages.

1. Remove the trim panel from the passenger side rear cargo area to gain access to the air suspension module. (Figure 58)



FIGURE 58

2. Disconnect the two harnesses from the module. The **modules will remain unplugged** while the EBM is in service. (Figure 59)



FIGURE 59

3. According to the table below, splice the EBM harness wires to the applicable control module harness wires using the four (4) supplied heat-shrink butt connectors. (Figure 60, 61)

	FROM	TO	PIN #	HARNESS #	
EBM	Black	Brown	21	B	VEHICLE
	Red	Black/Blue	8	Right Taillight Assembly	
	Blue	Orange/Brown	1	A	
	Green	Orange/Red	2	A	

FIGURE 60

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

#2

#3

#4

IDENTIFY AND CUT THE APPLICABLE WIRE TO THE CONTROL MODULE.

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

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

USE AN APPROPRIATE TOOL TO HEAT SHRINK.

FIGURE 61

4. Connect the EBM to the EBM harness. (Figure 62)



FIGURE 62

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. Reassemble the cargo area.
7. Installation complete.

A 4-WHEEL ALIGNMENT IS RECOMMENDED AFTER INSTALLATION



HOW HELPFUL WAS THIS MANUAL?

Scan the QR code or click the link below to let us know.

<https://bit.ly/3P7YqOO>

NEED IMMEDIATE SUPPORT?

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

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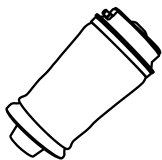
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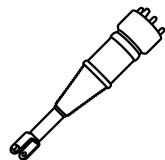
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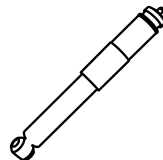
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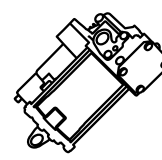
Air Springs



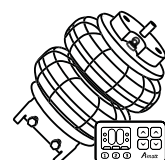
Struts



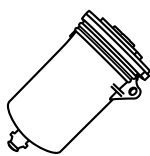
Shocks



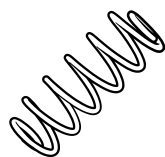
Compressors



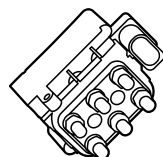
LCV Air Helper
Spring Kits



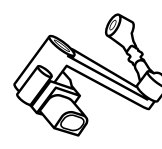
Dryers



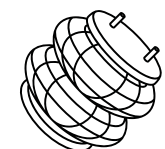
Coil Spring
Conversion Kits



Valve Blocks



Ride Height
Sensors



Pickup Truck Air
Helper Springs