

Congratulations on your purchase of an Arnott<sup>®</sup> air suspension product. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. 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, ASE Certified, 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.

# "Engineered to Ride, Built to Last™"





Installation

Manual

**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 protective hand, ear, and eye protection when servicing the air suspension system.

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

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#### **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 <u>www.arnottinc.com.</u>

- Not to be stored below 5°F (-15°C) or 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.

#### FRONT AIR STRUT REMOVAL

- 1. SET STEERING TO STRAIGHT AHEAD.
- 2. RAISETHE VEHICLE.
- 3. REMOVE THE APPLICABLE WHEEL. (FIGURE 1)



FIGURE 1





4. REMOVE THE AIR LINE. (FIGURE 2)



FIGURE 2

5. DISCONNECTTHE ELECTRICAL CONNECTION. (FIGURE 3)





6. REMOVE THE THREE TOP MOUNTING NUTS FROM THE STRUT. (FIGURE 4)



FIGURE 4





7. REMOVE THE WIRES FROM THE WIRE CLIP ON THE SWAY BAR END LINK. (FIGURES 5, 6)



FIGURE 5



**FIGURE 6** 

8. FOLLOW THE WIRING FROM THESHOCK AND DISCONNECT AT THE JUNCTION. (FIGURE 7)

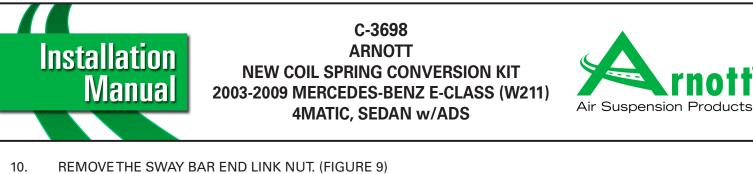




9. REMOVE THE BRAKE LINE ISOLATOR. (FIGURE 8)



FIGURE 8





**FIGURE 9** 

11. LOOSENTHE BOTTOM MOUNT BOLT. (FIGURE 10)





12. **REMOVE THE BOTTOM MOUNT BOLT. (FIGURE 11)** 



FIGURE 11



13. REMOVE THE CONTROL ARM NUT. (FIGURE 12)



FIGURE 12

14. REMOVE THE AXLE BOLT. (FIGURES 13, 14)



FIGURE 13

15. REMOVE THE AXLE. (FIGURES 15, 16)



FIGURE 15



FIGURE 14



FIGURE 16

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FIGURE 17

17. REMOVAL COMPLETE.



#### FRONT COIL STRUT INSTALLATION

Manual

Installation



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

1. INSTALL THE STRUT INTO THE VEHICLE. (FIGURE 18)

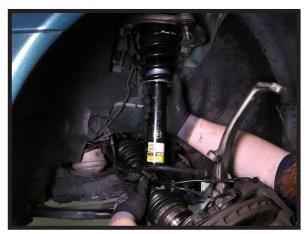


FIGURE 18

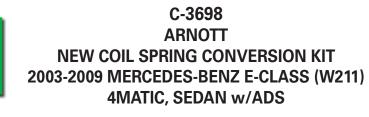
2. REINSTALL THE AXLE. (FIGURES 19, 20)



FIGURE 19



FIGURE 20





REATTACH THE CONTROL ARM TO THE SPINDLE ASSEMBLY AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 21, 22)



Installation

3.

Manual

FIGURE 21



FIGURE 22

4. REINSTALL THE UPPER SWAY BAR END LINK TO THE SPINDLE AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 23, 24)



FIGURE 23



FIGURE 24



REINSTALL THE AXLE BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 25)



FIGURE 25

6. REINSTALL THE BOTTOM MOUNT BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 26)



FIGURE 26

7. REINSTALL THE BRAKE LINE ISOLATOR. (FIGURE 27)

Installation

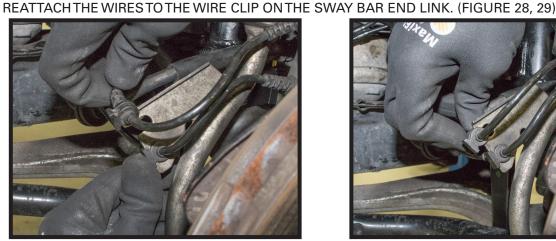
5.

Manual



FIGURE 27





Installation

8.

Manual

**FIGURE 28** 

**FIGURE 29** 

INSTALL THE THREE TOP MOUNTING NUTS TO THE TOP OF THE STRUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 30) 9.



**REINSTALL THE WHEEL. (FIGURE 31)** 10.

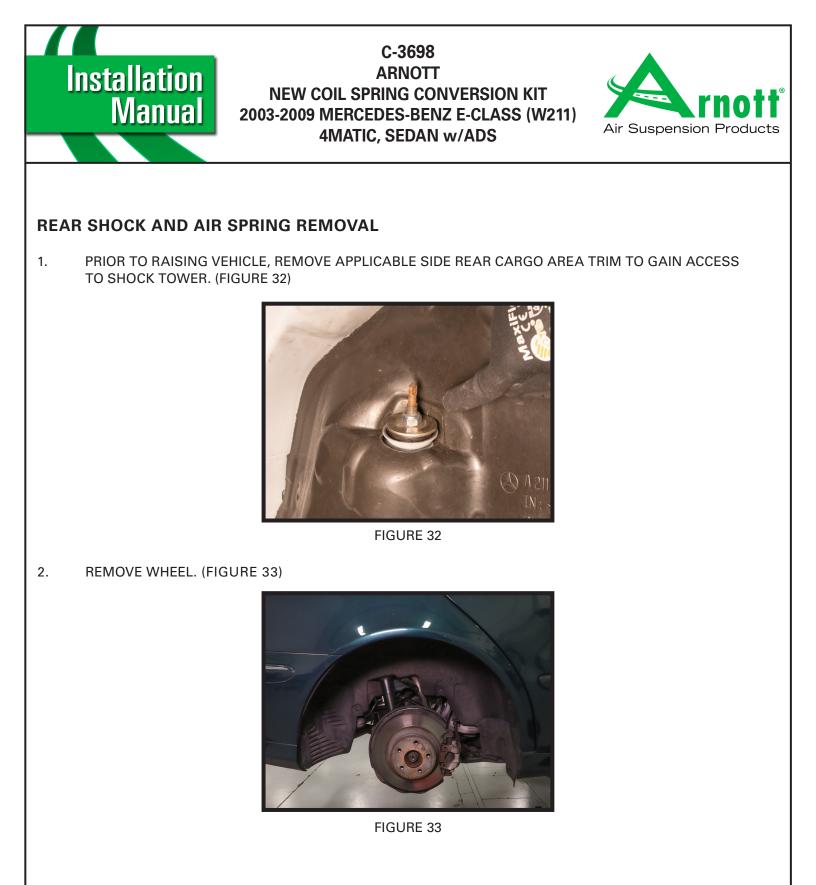


FIGURE 31

INSTALLATON COMPLETE. 11.

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11







- 3. DEFLATE AIR SPRING USING A SYSTEM DIAGNOSTIC TOOL.
- 4. REMOVE BUSHING AND WASHER WITH TOP NUT. (FIGURES 34, 35, 36)



FIGURE 34



FIGURE 35



FIGURE 36

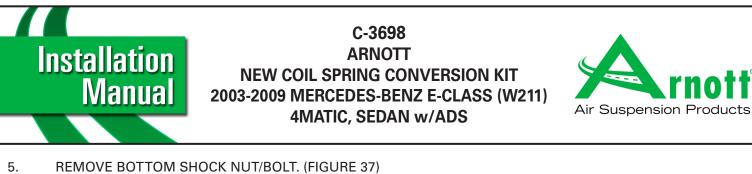




FIGURE 37

COMPRESS SHOCK AND REMOVE FROM VEHICLE. (FIGURES 38, 39) 6.



FIGURE 38



FIGURE 39

7. LOCATE AND REMOVE THE ELECTRICAL PLUG FROM THE AIR SPRINGS TOP MOUNT. (FIGURE 40)



FIGURE 40

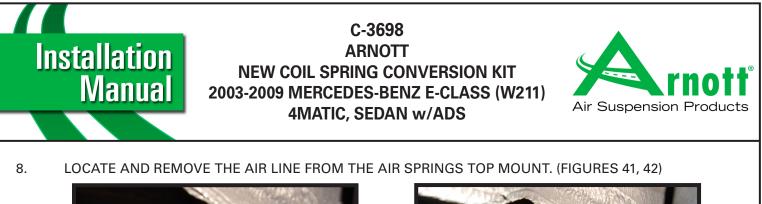




FIGURE 41



FIGURE 42

9. LOOSEN AND REMOVE THE REAR CONTROL ARM NUT AND BOLT. (FIGURE 43)



FIGURE 43

10. DISLOCATE THE AIR SPRING'S TOP MOUNT FROM THE VEHICLE. (FIGURE 44)



FIGURE 44



11. LOOSEN AND REMOVE THE AIR SPRING'S LOWER MOUNTING NUT AND BOLT. (FIGURE 45)



**FIGURE 45** 

12. REMOVE FACTORY AIR SPRING FROM THE VEHICLE BY DISCONNECTING THE FACTORY RUBBER HOSE LEADING FROM THE AIR SPRING TO THE AIR SPRING'S RESERVOIR. SECURE THE HOSE IN A SUITABLE LOCATION AWAY FROM ANY MOVING PARTS OR COMPONENTS WITH EXCESSIVE HEAT. (FIGURE 46)



FIGURE 46

13. REMOVAL COMPLETE.

Installation

Manual





#### **REAR COIL AND SHOCK INSTALLATION**

Manual

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

REINSTALL PREVIOUSLY REMOVED BUSHING AND WASHER ONTO THE TOP OF THE DAMPER 1. TENNON. (FIGURES 47, 48)



FIGURE 47

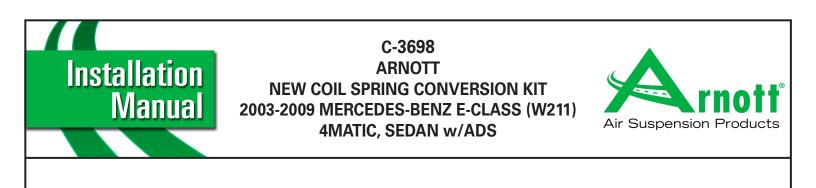


FIGURE 48

REINSTALL THE PROVIDED TOP NUT ONTO THE DAMPER AND TIGHTEN TO MANUFACTURER'S 2. SPECIFICATIONS. (FIGURE 49)



FIGURE 49



3. REMOVE OLD TOP MOUNT CLIPS AND REPLACE WITH THE ONES PROVIDED IN THE KIT. (FIGURES 50, 51)



FIGURE 50



FIGURE 51

4.





FIGURE 52



FIGURE 53



- INSTALL THE LOWER SPRING PERCHES INTO THE LOWER CONTROL ARMS, AND SECURE. (FIGURES 54, 55)
  - PAY SPECIAL ATTENTION TO THE "FACING WHEEL" LABEL ON THE PERCHES TO ORIENT NOTE: THEM PROPERLY WITHIN THE LOWER CONTROL ARMS.



Installation

5.

6.

Manual

FIGURE 54



**FIGURE 55** 

LOOSEN ANDREMOVE THE LOWER SWAY BAR END LINK BOLT. (FIGURES 56, 57)

FIGURE 56



FIGURE 57



LOOSEN AND REMOVE REAR TRAILING ARM BOLT. (FIGURES 58, 59)



Installation

7.

Manual

FIGURE 58



FIGURE 59

8. LOOSEN AND REMOVE THE FRONT TRAILING ARM BOLT. (FIGURES 60, 61)



FIGURE 60





9. LOOSEN AND REMOVE THE UPPER CONTROL ARM BOLT FROM THE SPINDLE ASSEMBLY. (FIGURE 62)



FIGURE 62

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10. LOOSEN AND REMOVE LOWER CONTROL ARM BOLT. (FIGURES 63, 64)



Installation

Manual

FIGURE 63



FIGURE 64

11. PULL DOWN ON LOWER CONTROL ARM AND INSTALL THE SPRING INTO THE TOP SPRING SEAT. (FIGURE 65)



FIGURE 65

12. SLIDE THE SPRING OVER THE HUMP OF THE LOWER SRING PERCH. (FIGURE 66)



FIGURE 66



13. USING A STAND OR JACK, RAISE THE LOWER CONTROL ARM TO COMPRESS THE SPRING AND INSTALL THE LOWER SHOCK BOLT TO HOLD IN PLACE. (FIGURES 67, 68)



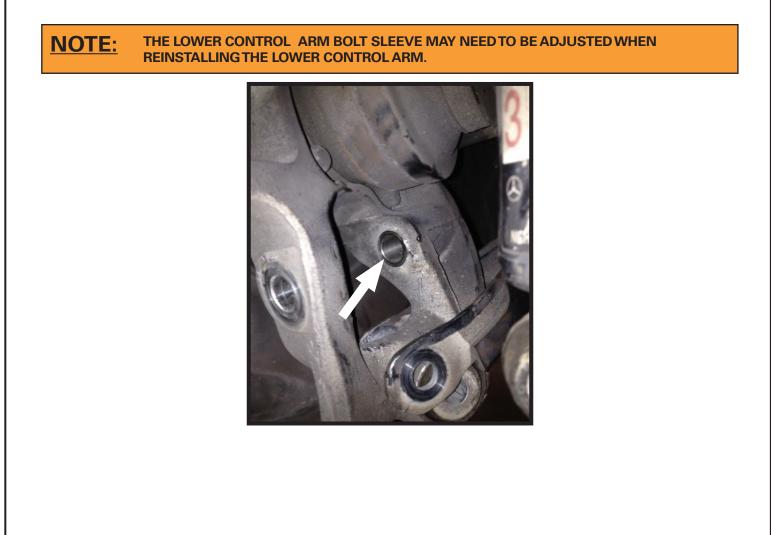
Installation

Manual

FIGURE 67



FIGURE 68







14. REINSTALL AND TIGHTEN THE LOWER CONTROL ARM BOLT. (FIGURES 69, 70)



FIGURE 69



FIGURE 70

15. REINSTALL AND TIGHTEN THE UPPER CONTROL ARM BOLT FROM THE SPINDLE ASSEMBLY. (FIGURE 71)



FIGURE 71

16. REINSTALL AND TIGHTEN THE FRONT TRAILING ARM BOLT. (FIGURES 72, 73)

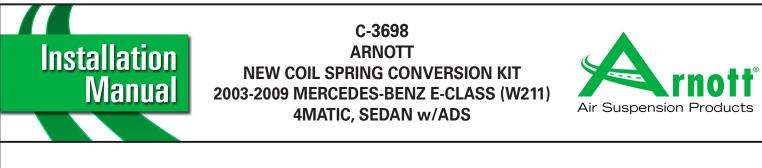


FIGURE 72



FIGURE 73

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17. REINSTALL AND TIGHTEN THE REAR TRAILING ARM BOLT. (FIGURES 74, 75)



FIGURE 74



FIGURE 75

18. REINSTALL AND TIGHTEN THE LOWER SWAY BAR END LINK BOLT. (FIGURES 76, 77)



FIGURE 76



FIGURE 77

19. INSTALLATION OF REAR SPRINGS AND SHOCKS COMPLETE.

It is nesessary to have your vehicle aligned after installing this kit.



#### **ELECTRONIC BYPASS MODULE INSTALLATION**

Installation

Manual

1. BEGIN BY REMOVING THE FRONT PASSENGER SIDE FLOOR MAT. (FIGURE 78)



FIGURE 78

2. PULL BACKTHE KICK PANNEL AND REMOVE THE FOAM INSULATION BENEATH. (FIGURES 79, 80)









3. LOCATE AND REMOVE THE THREE NUTS HOLDING THE METAL SHIELD. (FIGURE 81)



FIGURE 81



4. REMOVE THE METAL SHIELD AND REST IT ON THE FLOOR TO EXPOSE THE VEHICLES AIR SUSPENSION CONTROL MODULE. (FIGURE 82)



FIGURE 82

5. LOCATE THE VEHICLES AIR SUSPENSION CONTROL MODULE MOUNTED ON THE METAL SHIELD. DISCONNECT ALL THREE (TWO LARGE AND ONE SMALL) PLUGS CONNECTED TO THE SIDE. (FIGURES 83, 84)



Installation

Manual

FIGURE 83



FIGURE 84

6. LOCATE A SUITABLE GROUND AND INSTALL THE BLACK WIRE FROM THE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURES 85, 86)





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LOCATETHE POSITIVE 12 VOLT POWER SOURCE AND INSTALLTHE RED WIRE FROMTHE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURES 87, 88, 89)



Installation

7.

Manual





FIGURE 88

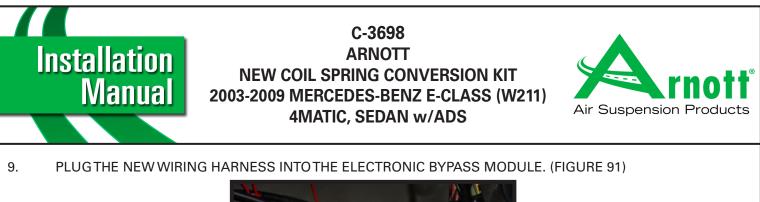


FIGURE 89

8. LOCATE THE SMALL, TWO WIRE PLUG FROM THE VEHICLES WIRING HARNESS AND PLUG IT INTO THE ELECTRONIC BYPASS MODULES WIRING HARNESS. (FIGURE 90)



FIGURE 90



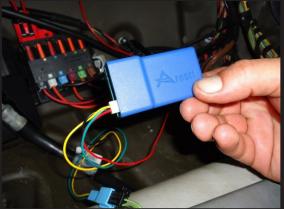


FIGURE 91

10. SECURE THE ELECTRONIC BYPASS MODULE IN A SUITABLE LOCATION AND REINSTALL ALL PANELS IN REVERSE ORDER OF WHICH THEY WERE DISASSEMBLED. (FIGURE 92)

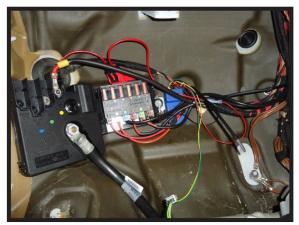


FIGURE 92

11. ELECTRONIC BYPASS MODULE INSTALLATION COMPLETE.

**NOTE:** DO NOT PLUG THE FACTORY WIRING HARNESS BACK INTO THE VEHICLES AIR SUSPENSION CONTROL MODULE.