# Installation Manual

# C-2242 ARNOTT COIL SPRING CONVERSION KIT FOR 1999-2006 MERCEDES-BENZ S-CLASS (W220 CHASSIS)



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™"





**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.

#### **KIT CONTAINS:**

PARTS LIST		
P/N	QTY	DESCRIPTION
21-4410	1	ARNOTT FRONT COIL SPRING CONVERSION
21-4401	1	ARNOTT REAR COIL SPRING CONVERSION
21-4634	1	ACCESSORY KIT



#### **GENERAL INFORMATION:**

Installation

Manual

- 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.

#### FRONT AIR STRUT REMOVAL

- 1. SET STEERING TO STRAIGHT AHEAD.
- 2. RAISE THE VEHICLE.
- 3. REMOVE FRONT WHEEL.
- 4. DISCONNECT THE SHOCK CONTROL CABLE CONNECTOR LOCATED IN THE FENDER WELL. (FIGURE 10-1)

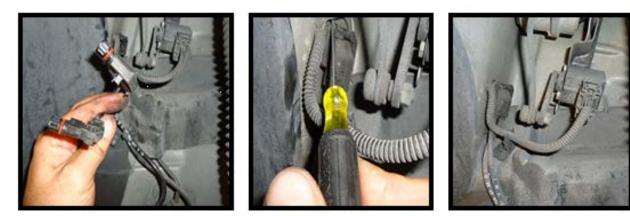


FIGURE 10-1



FIGURE 10-2

6. RAISE HOOD AND DISCONNECT THE AIR SUPPLY LINE TO THE SHOCK ASSEMBLY. (FIGURE 10-3)





7. REMOVE THE THREE (3) NUTS HOLDING THE TOP MOUNT OF THE SHOCK. (FIGURE 10-4)



FIGURE 10-4



- 1. REMOVE REAR WHEEL.
- 2. REMOVE THE SIDE COVER OF THE REAR DASH PANELTO EXPOSE THE TOP OF THE AIR SHOCK (LOCATED IN THE REAR WINDOW AREA). (FIGURE 20-1)



FIGURE 20-1





3. DISCONNECTTHE AIRLINE AND REMOVE THE 3 MOUNTING NUTS FROM THE TOP OF THE AIR SHOCK. (FIGURE 20-2)

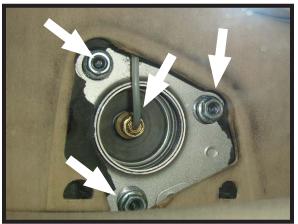


FIGURE 20-2

4. REMOVE RUBBER BOOT AND DISCONNECT ELECTRICAL CONNECTOR LEADING TO THE SHOCK DAMPER SOLENOID. (FIGURE 20-3).





FIGURE 20-3

5. REMOVE THE BREAK CALIPER RETAINING CLIP. (FIGURE 20-4)



FIGURE 20-4



6.

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LOOSENTHETWO (2) BOLTS ONTHE BACKSIDE OFTHE CALIPER. (FIGURE 20-5)



FIGURE 20-5

7. DISCONNECTTHE SENSOR CONNECTOR AND REMOVE THE SENSOR BRACKET. (FIGURE 20-6)





FIGURE 20-6

8. SECURE THE CALIPER. (FIGURE 20-7)



FIGURE 20-7





9. DISASSEMBLE THE OUTER SUSPENSION ARM. (FIGURE 20-8)



FIGURE 20-8

10. DISASSEMBLE THE STABILIZER BAR LINK. (FIGURE 20-9)



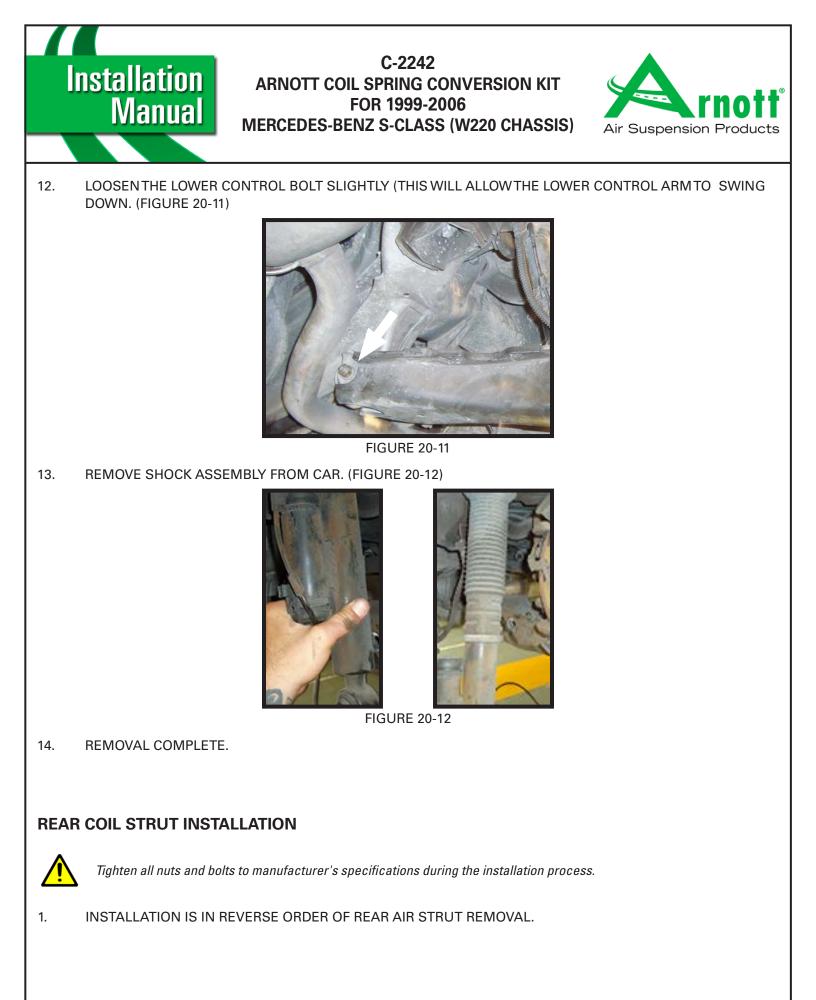


FIGURE 20-9

11. REMOVE THE BOLT AND NUT CONNECTING THE SHOCK ASSEMBLY TO THE SUSPENSION ARM. (FIGURE 20-10)



FIGURE 20-10





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

Installation

Manual

1. LOCATE THE N51 CONTROL MODULE (LOCATED IN THE LEFT SIDE FUSE BOX) VERIFY THAT IT READS "TEMIC". (FIGURE 1A)





FIGURE 1A

2. AFTER VERIFYING COMPUTER, DISCONNECT ALL THREE (3) MULTI-PIN CONNECTORS PERMANENTLY. (FIGURE 1B)





FIGURE 1B

3. CONNECT LIGHT BLUE CONNECTOR FROM ELECTRONIC BYPASS MODULE TO THE WIRE HARNESS SIDE OF THE VEHICLE N-51 CAN-BUS 2 PIN CONNECTOR. (FIGURE 1C)

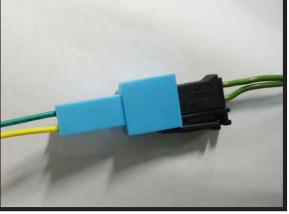


FIGURE 1C

