

# Installation Manual

C-2896  
ARNOTT  
REAR COIL SPRING CONVERSION KIT  
MERCEDES-BENZ E-CLASS WAGON W/O ADS  
(W211)



Congratulations on your purchase of an Arnott® 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.*

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** during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com). (In the EU please call +31 (0)73 7850 580 or email [info@arnotteurope.com](mailto:info@arnotteurope.com))

## 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](http://www.arnottinc.com).

- 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.

## AIR SPRING REMOVAL

 The air spring(s) contain a solenoid valve. Once inflated, only the "Mercedes DAS Star" diagnostic computer can deflate the air spring(s).

1. SET THE STEERING TO STRAIGHT AHEAD.
2. RAISE THE VEHICLE.
3. REMOVE THE REAR WHEELS. (FIGURE 10-1)



FIGURE 10-1

4. LOCATE AND REMOVE THE ELECTRICAL PLUG FROM THE AIR SPRINGS TOP MOUNT. (FIGURE 10-2)



FIGURE 10-2

5. LOCATE AND REMOVE THE AIR LINE FROM THE AIR SPRINGS TOP MOUNT. (FIGURE 10-3)

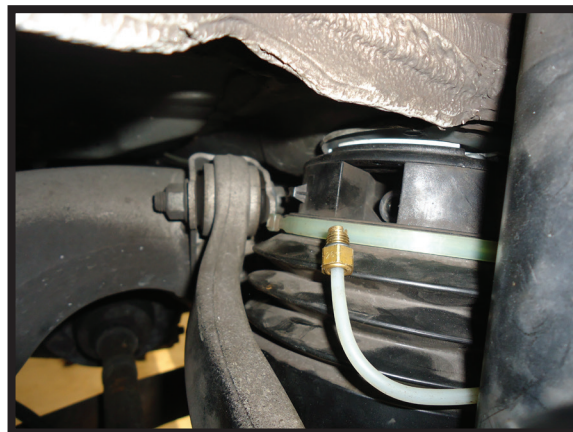


FIGURE 10-3

6. LOOSEN AND REMOVE THE LOWER SHOCK MOUNTING NUT AND BOLT. (FIGURE 10-4)



FIGURE 10-4

7. LOOSEN AND REMOVE THE REAR CONTROL ARM NUT AND BOLT. (FIGURE 10-5)

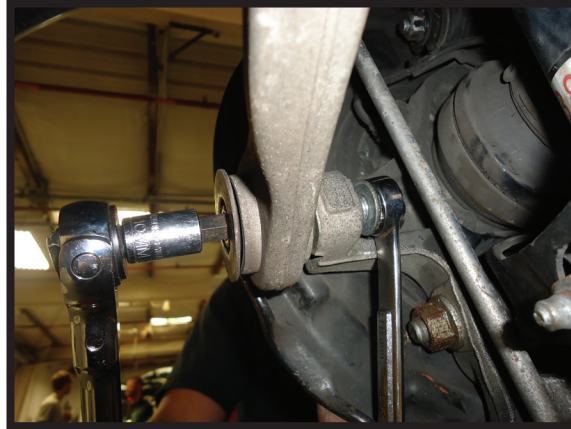


FIGURE 10-5

8. DISLOCATE THE AIR SPRING'S TOP MOUNT FROM THE VEHICLE. (FIGURE 10-6)



FIGURE 10-6

9. LOOSEN AND REMOVE THE AIR SPRING'S LOWER MOUNTING NUT AND BOLT. (FIGURE 10-7)



FIGURE 10-7

10. REMOVE FACTORY AIR SPRING FROM THE VEHICLE. (FIGURE 10-8)

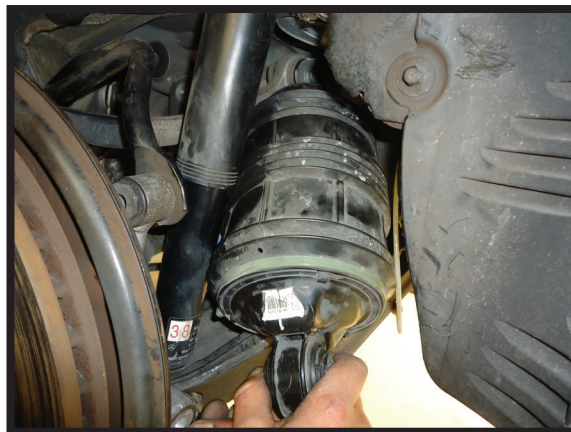


FIGURE 10-8

11. REMOVE BRAKE PAD CLIP AND CALIPER. HANG IN A SUITABLE LOCATION. (FIGURE 10-9)



FIGURE 10-9

12. REMOVE THE LOWER SWAY BAR END LINK BOLT. (FIGURE 10-10)

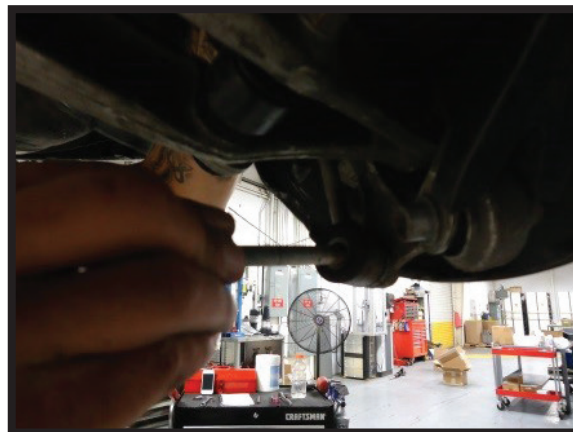
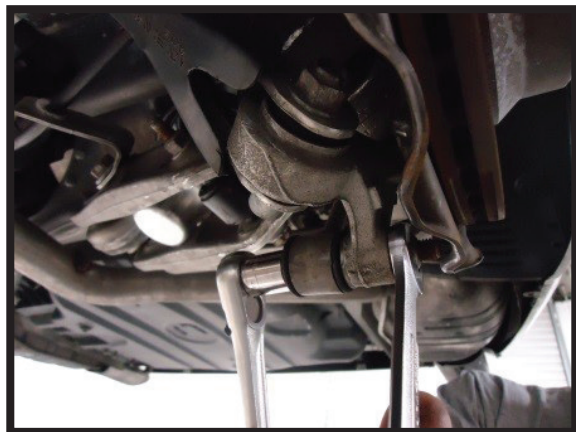


FIGURE 10-10

13. LOOSEN AND REMOVE THE FRONT CONTROL ARM BOLT. (FIGURE 10-11)



FIGURE 10-11

14. LOOSEN AND REMOVE UPPER CONTROL ARM BOLT. (FIGURE 10-12)



FIGURE 10-12

15. LOOSEN AND REMOVE LOWER CONTROL ARM BOLT. (FIGURE 10-13)



FIGURE 10-13

16. REMOVAL COMPLETE.

## COIL SPRING INSTALLATION



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

1. INSTALL THE LOWER SPRING PERCHES INTO THE LOWER CONTROL ARMS, AND SECURE. (FIGURE 20-1)



FIGURE 20-1

2. REMOVE OLD TOP MOUNT CLIPS AND REPLACE WITH THE ONES PROVIDED IN THE KIT. (FIGURE 20-2)

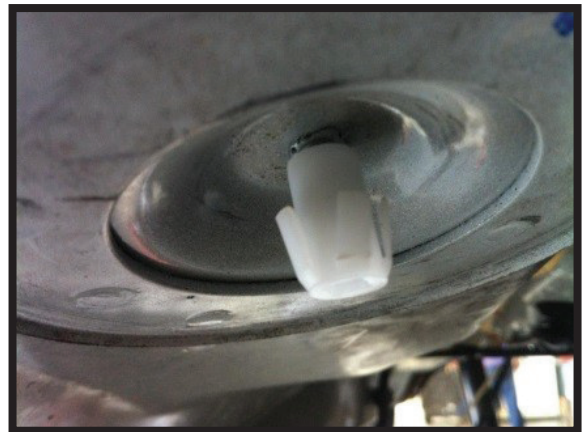


FIGURE 20-2

3. INSTALL THE UPPER SPRING PERCHES ONTO THE NEW CLIPS. (FIGURE 20-3)



FIGURE 20-3

4. PULL DOWN ON LOWER CONTROL ARM AND INSTALL SPRING INTO THE TOP SPRING PERCH. (FIGURE 20-4)



FIGURE 20-4

5. SLIDE SPRING OVER THE HUMP OF THE LOWER SPRING PERCH. (FIGURE 20-5)



FIGURE 20-5

6. USING A STAND OR JACK, RAISE THE LOWER CONTROL ARM TO COMPRESS THE SPRING AND INSTALL THE LOWER SHOCK BOLT TO HOLD IN PLACE. (FIGURE 20-6)

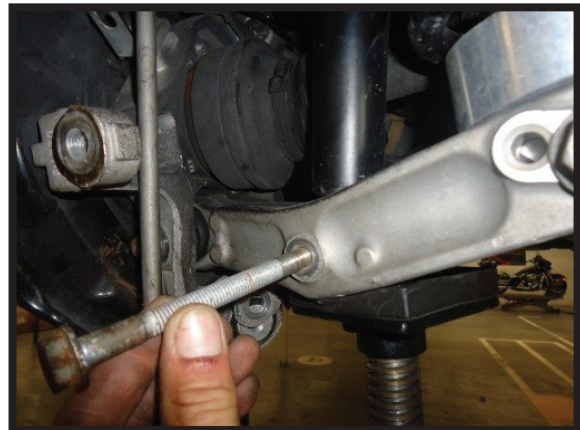


FIGURE 20-6



7. INSTALLATION OF CONTROL ARMS, SWAY BAR END LINK, BRAKE CALIPERS AND WHEELS IS IN REVERSE ORDER OF REMOVAL.

**NOTE:** THE LOWER CONTROL ARM BOLT SLEEVE MAY NEED TO BE ADJUSTED WHEN INSTALLING THE LOWER CONTROL ARM.



8. INSTALLATION OF REAR SPRINGS COMPLETE.



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

## DISARMING VEHICLE'S AIR SUSPENSION

1. BEGIN BY REMOVING THE FRONT PASSENGER SIDE FLOOR MAT. (FIGURE 30-1)



FIGURE 30-1

2. PULL BACK THE KICK PANEL AND REMOVE THE FOAM INSULATION BENEATH. (FIGURE 30-2)

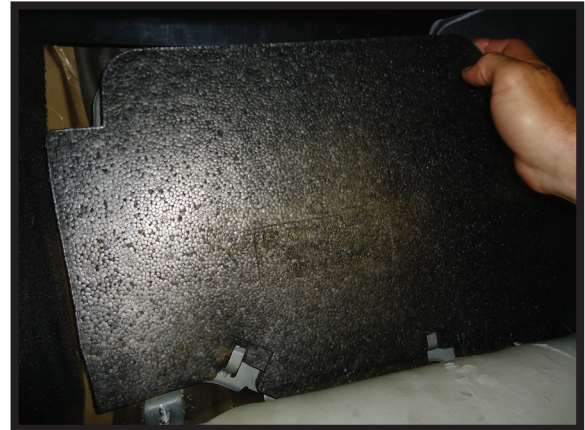


FIGURE 30-2

3. LOCATE AND REMOVE THE THREE NUTS HOLDING THE METAL SHIELD. (FIGURE 30-3)



FIGURE 30-3

4. REMOVE THE METAL SHIELD AND REST IT ON THE FLOOR TO EXPOSE THE VEHICLE'S AIR SUSPENSION CONTROL MODULE. (FIGURE 30-4)



FIGURE 30-4

5. LOCATE THE VEHICLE'S AIR SUSPENSION CONTROL MODULE MOUNTED ON THE METAL SHIELD. DISCONNECT THE VEHICLE'S WIRING HARNESS FROM THE AIR SUSPENSION CONTROL MODULE. (FIGURE 30-5)

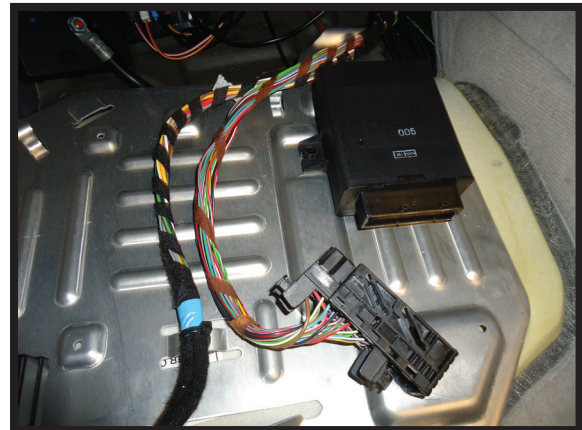


FIGURE 30-5

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

6. INSTALL METAL SHIELD, MOUNTING NUTS, FOAM INSULATION, AND KICK PANNEL IN REVERSE ORDER OF REMOVAL.