

Installation Manual

AS-3085
ARNOTT FRONT RIGHT AIR STRUT
MERCEDES-BENZ ML-CLASS (W/O ADS)(W-166)
MERCEDES-BENZ GL-CLASS (W/O ADS)(X-166)



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 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.
(In the EU please call +31 (0)73 7850 580 or email 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.

- 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 STRUT REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. RAISE VEHICLE.
3. REMOVE THE APPLICABLE FRONT WHEEL.
4. OPEN THE HOOD.
5. REMOVE THE RUBBER TRIM AS DEPICTED. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

6. REMOVE THE AIR INTAKE COVER. (FIGURE 3)



FIGURE 3

7. UNCLIP THE AIR BOX. (FIGURE 4)



FIGURE 4

8. REMOVE THE AIR BOX. (FIGURE 5)



FIGURE 5

9. DISCONNECT THE AIR LINE FROM THE STRUT ASSEMBLY. (FIGURE 6)

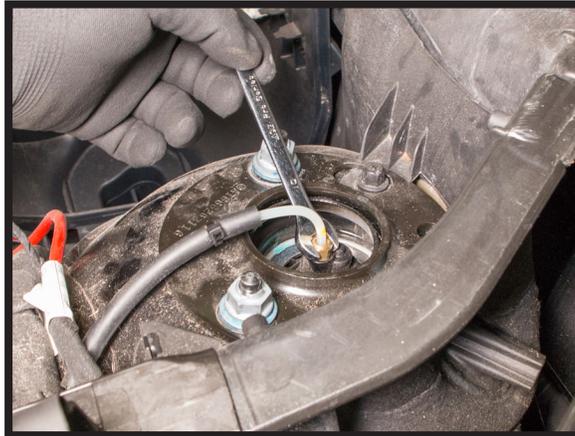


FIGURE 6

10. REMOVE THE THREE SHOCK TOP MOUNT NUTS. (FIGURE 7)



FIGURE 7

11. REMOVE THE ELECTRICAL WIRES FROM THE WIRE ROUTING HARNESS. (FIGURE 8)



FIGURE 8

12. REMOVE THE WIRE ROUTING HARNESS FROM THE STRUT BODY. (FIGURE 9)



FIGURE 9

13. LOOSEN AND REMOVE THE AXLE NUT AND SEPERATE THE AXLE FROM THE WHEEL HUB. (FIGURES 10, 11)



FIGURE 10



FIGURE 11

14. REMOVE THE SWAY BAR END LINK NUT. (FIGURE 12)

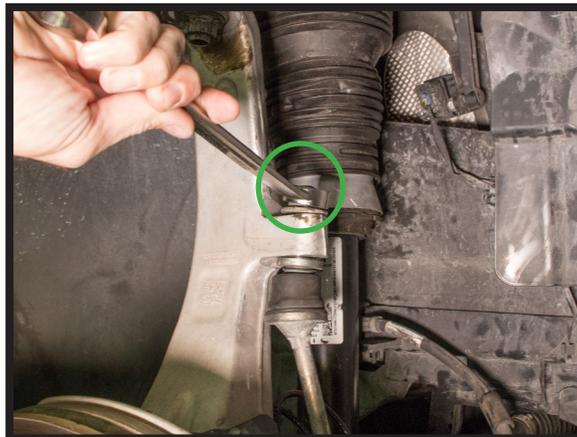


FIGURE 12

15. REMOVE THE CONTROL ARM NUT AND SEPERATE THE UPPER CONTROL ARM FROM THE SPINDLE ASSEMBLY. (FIGURE 13)

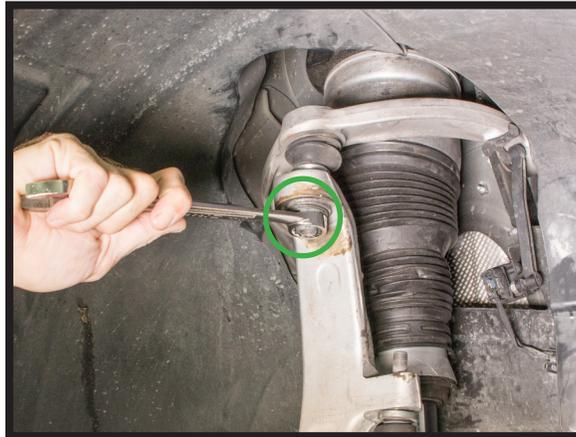


FIGURE 13

16. PULL DOWN ON THE LOWER CONTROL ARM TO SEPERATE THE SWAY BAR END LINK FROM THE LOWER CONTROL ARM CONTROL ARM. (FIGURE 14)



FIGURE 14

17. REMOVE THE BOTTOM MOUNTING BOLT. (FIGURE 15)



FIGURE 15

18. REMOVE THE AXLE FROM THE WHEEL HUB. (FIGURE 16)



FIGURE 16

19. CAREFULLY REMOVE THE STRUT ASSEMBLY. (FIGURE 17)



FIGURE 17

20. REMOVAL COMPLETE.

AIR STRUT INSTALLATION



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



Do not remove the air fitting from the air strut. Doing so may cause damage and/or void warranty. Remove the white shipping pin from the new air fitting and insert the air line until fully seated.

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



FIGURE 18

2. INSERT THE AXLE INTO THE WHEEL HUB. (FIGURE 19)



FIGURE 19

3. INSTALL THE BOTTOM NUT AND BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 20, 21)



FIGURE 20



FIGURE 21

4. REATTACH THE SWAY BAR END LINK TO THE CONTROL ARM AND REINSTALL THE SWAY BAR END LINK NUT. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 22, 23)



FIGURE 22



FIGURE 23

5. REINSTALL THE CONTROL ARM NUT. (FIGURE 24)



FIGURE 24

6. REATTACH THE AXLE TO THE WHEEL HUB AND REINSTALL THE AXLE NUT. (FIGURE 25)



FIGURE 25

7. REATTACH THE WIRE ROUTING HARNESS. (FIGURE 26)

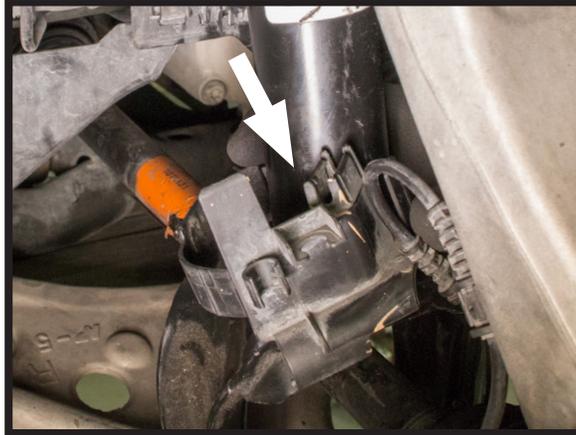


FIGURE 26

8. REROUTE THE ELECTRICAL WIRES IN THE WIRE HARNESS. (FIGURE 27)



FIGURE 27

9. INSTALL THE THREE TOP SHOCK MOUNT NUTS. (FIGURE 28)



FIGURE 28

10. REINSTALL THE AIR LINE. SEE PROVIDED TSB. (FIGURE 29)



FIGURE 29

11. CLOSE THE HOOD.
11. REINSTALL THE WIPER COWL AND SEAL.
12. REINSTALL THE WHEEL.
13. INSTALLATION COMPLETE.