Installation Manual

AS-3154
ARNOTT
NEW FRONT LEFT AIR STRUT
2013-2019 MERCEDES-BENZ GL/GLS (X166)
2012-2018 MERCEDES-BENZ ML/GLE (W166)
w/ADS (excl. ADS Plus)

Arnott® Air Suspension Products

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)

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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 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 LEFT FRONT WHEEL.

4. OPEN THE HOOD.

5. REMOVE ANY APPLICABLE RUBBER TRIM DEPICTED AS NEEDED. (FIGURES 1, 2)

FIGURE 1

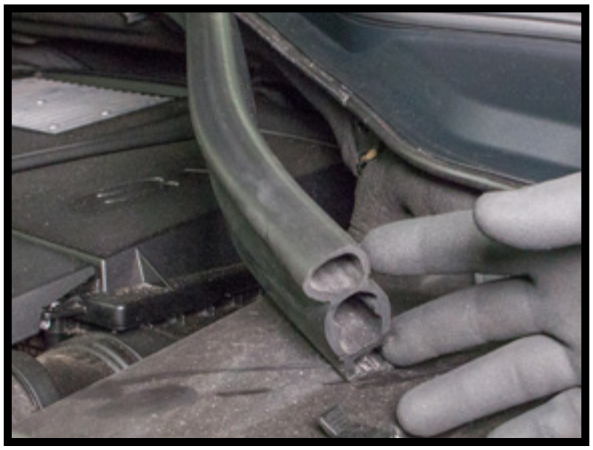

FIGURE 2

6. REMOVE PANEL TO GAIN ACCESS TO THE AIR STRUT TOP MOUNT. (FIGURE 3)

FIGURE 3

7. DISCONNECT THE AIR LINE FROM THE STRUT ASSEMBLY. (FIGURE 4)

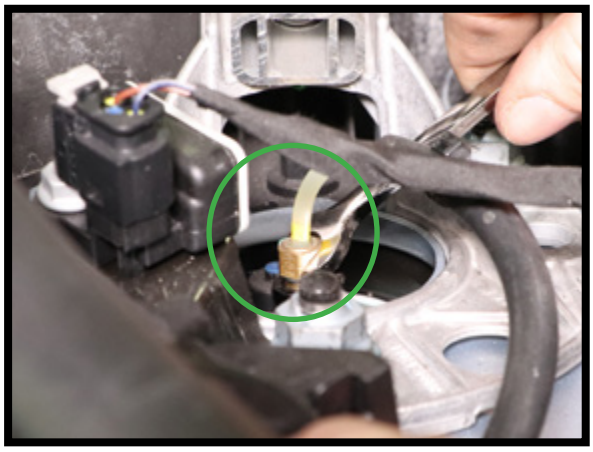

FIGURE 4

8. REMOVE THE THREE (3) TOP STRUT MOUNT NUTS. (FIGURE 5)

FIGURE 5

9. DISCONNECT BOTH DAMPING COIL ELECTRICAL CONNECTIONS. (FIGURE 6)

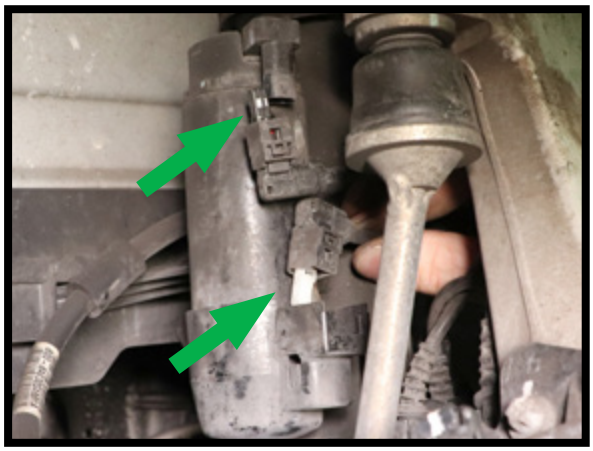

FIGURE 6

10. UNROUTE WIRES FROM THE STRUT WIRE HARNESS BRACKET. (FIGURE 7)

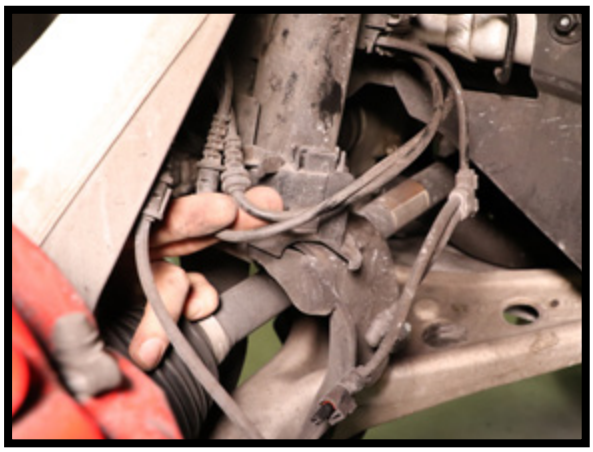

FIGURE 7

11. REMOVE THE UPPER SWAY ARM LINK NUT. (FIGURE 8)

FIGURE 8

12. DISCONNECT THE STEERING LINK FROM THE WHEEL CARRIER MOUNT. (FIGURES 9, 10)

FIGURE 9

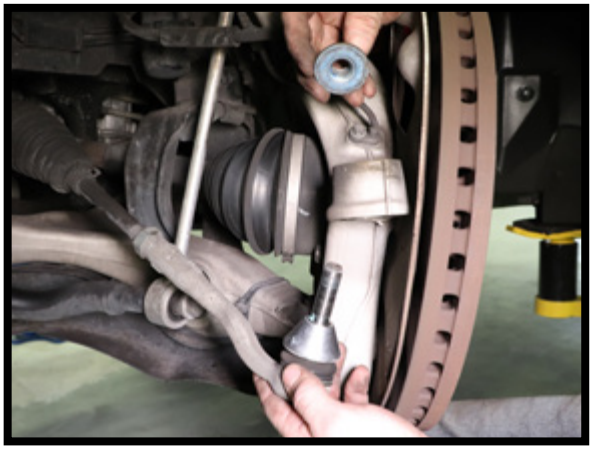

FIGURE 10

13. REMOVE THE BOTTOM STRUT MOUNT BOLT. (FIGURE 11)

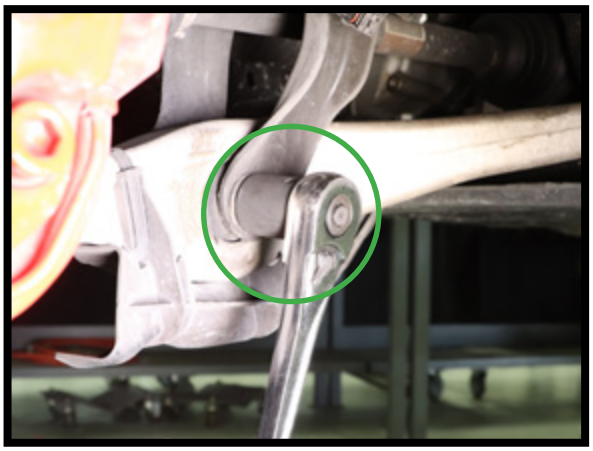

FIGURE 11

14. DISCONNECT AND SEPARATE THE WHEEL CARRIER AND UPPER CONTROL ARM. (FIGURES 12, 13)

FIGURE 12

FIGURE 13

15. SEPARATE THE SWAY ARM LINK FROM THE WHEEL CARRIER MOUNT. (FIGURE 14)

FIGURE 14

16. DISCONNECT AXLE AT THE GEARBOX ENOUGH TO HELP MANEUVER STRUT REMOVAL. (FIGURE 15)

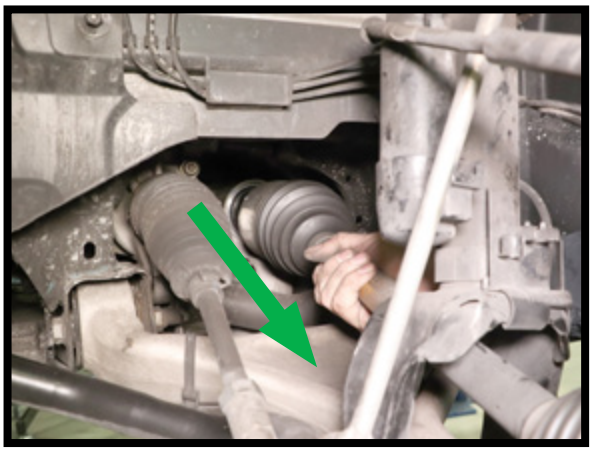

FIGURE 15

17. CAREFULLY REMOVE THE AIR STRUT. (FIGURE 16)

FIGURE 16

18. 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. CAREFULLY INSTALL THE STRUT INTO THE VEHICLE. (FIGURE 17)

FIGURE 17

2. REINSTALL THE AXLE BACK INTO THE GEARBOX. (FIGURE 18)

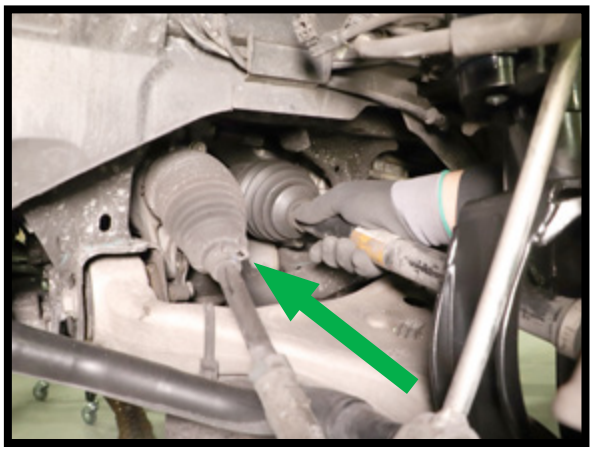

FIGURE 18

3. RECONNECT THE SWAY ARM LINK AT THE WHEEL CARRIER MOUNT. (FIGURE 19)

FIGURE 19

4. RECONNECT THE WHEEL CARRIER AND UPPER CONTROL ARM. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 20, 21)

FIGURE 20

FIGURE 21

5. INSTALL THE BOTTOM NUT AND BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 22, 23)

FIGURE 22

FIGURE 23

6. RECONNECT THE STEERING LINK TO THE WHEEL CARRIER MOUNT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 24, 25)

FIGURE 24

FIGURE 25

7. REINSTALL SWAY ARM LINK NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 26)

FIGURE 26

8. RECONNECT AND SECURE STRUT DAMPING COIL WIRES. (FIGURES 27, 28)

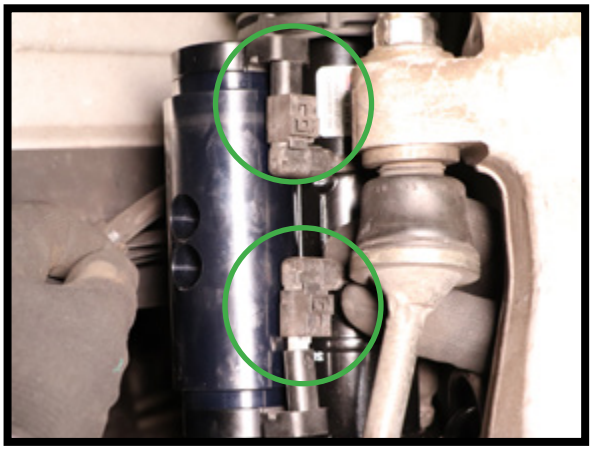

FIGURE 27

FIGURE 28

9. INSTALL THE THREE (3) TOP STRUT MOUNT NUTS. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 29)

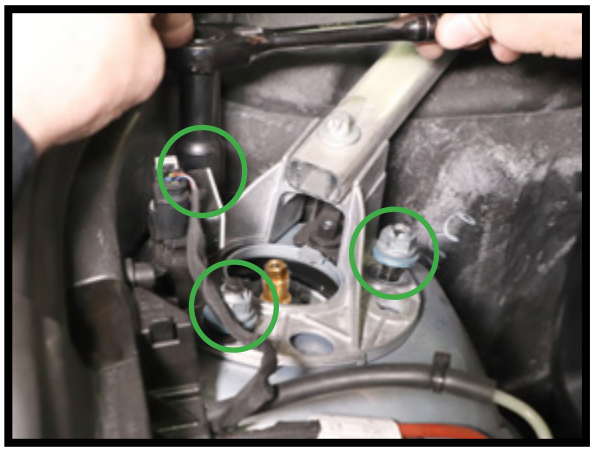

FIGURE 29

10. REMOVE THE WHITE SHIPPING PIN ON THE NEW AIR LINE FITTING. INSERT THE AIR LINE INTO THE NEW AIR FITTING UNTIL THE AIR LINE IS FIRMLY SEATED WITHIN THE FITTING. (FIGURES 30, 31)

FIGURE 30

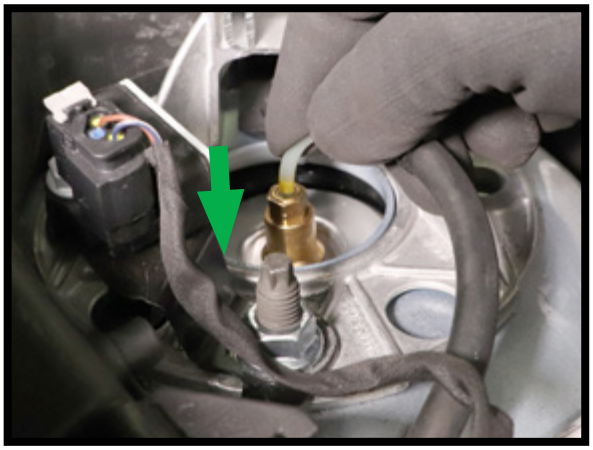

FIGURE 31

11. REINSTALL THE PANEL COVERING THE AIR STRUT TOP MOUNT.

12. REINSTALL ANY ADDITIONAL APPLICABLE RUBBER TRIM OR PANELING.

13. REINSTALL THE LEFT FRONT WHEEL.

14. INFLATE THE AIR SYSTEM PER MANUFACTURER'S SPECIFICATIONS.

15. LOWER THE VEHICLE.

16. INSTALLATION COMPLETE.