Arnott®
Suspension Products

INSTALLATION MANUAL

AS-3153
Arnott New Front Right Air Strut
Mercedes-Benz GL/GLSML/GLE
(X/W166, w/ADS, Excl. ADS Plus)

Engineered to Ride, Built to Last®

CONGRATULATIONS ON YOUR PURCHASE OF AN ARNOTT® SUSPENSION PRODUCT

WE AT ARNOTT LLC ARE PROUD TO OFFER A HIGH QUALITY PRODUCT WITH ALL THE TECHNICAL SUPPORT YOU NEED. 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 and certified automotive 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.

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 and www.arnotteurope.com.

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.

- 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.

For vehicles with a "Closed Air Supply System," replacement of components requires proper adherence to procedures set forth within OE servicing literature. Failure to comply with the OE prescribed procedures can result in component damage and/or failure.

AIR STRUT REMOVAL

1. Set steering to straight ahead.
2. Raise vehicle.
3. Remove the right front wheel.
4. Open the hood.
5. Remove any applicable rubber trim depicted as needed. (Figures 1, 2)

FIGURE 1

FIGURE 2

6. Remove the HVAC air intake cover. (Figure 3)

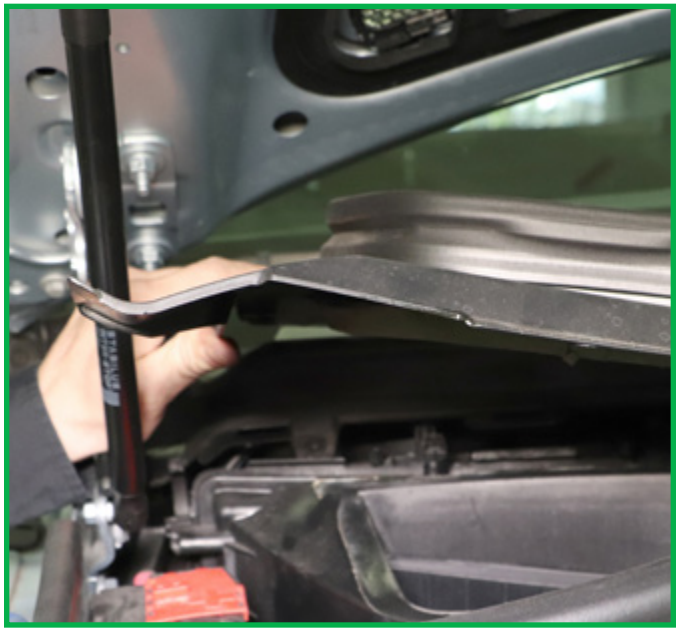

FIGURE 3

7. Unclip the HVAC air intake box. (Figure 4)

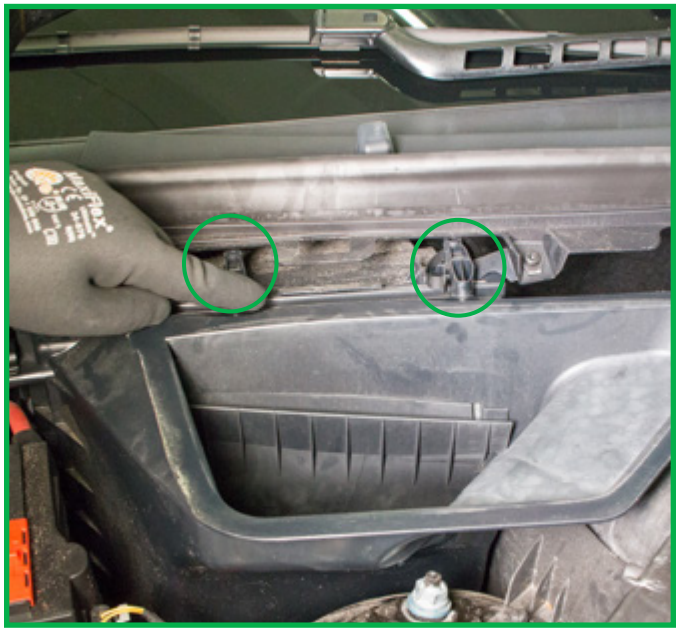

FIGURE 4

8. Remove the HVAC air intake box. (Figure 5)

FIGURE 5

9. Disconnect the air line from the strut assembly. (Figure 6)

FIGURE 6

10. Remove the three (3) top strut mount nuts. (Figure 7)

FIGURE 7

11. Disconnect the damping coil electrical connection. (Figure 8)

FIGURE 8

12. Unroute wires from the strut wire harness bracket. (Figure 9)

FIGURE 9

13. Remove the upper sway arm link nut. (Figure 10)

FIGURE 10

14. Disconnect the steering link from the wheel carrier mount. (Figures 11, 12)

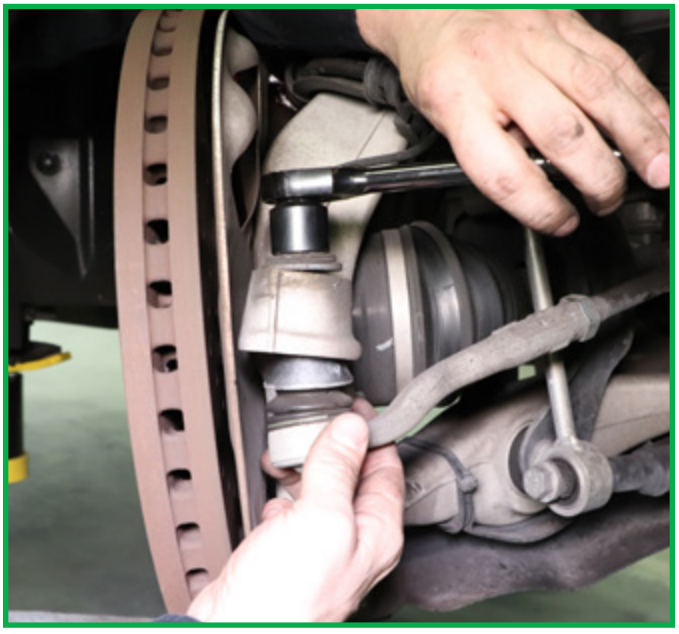

FIGURE 11

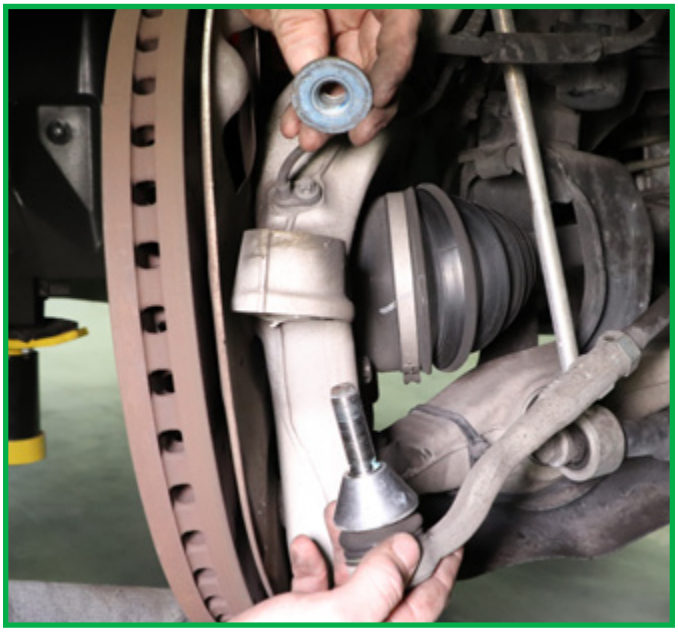

FIGURE 12

15. Remove the bottom strut mount bolt. (Figure 13)

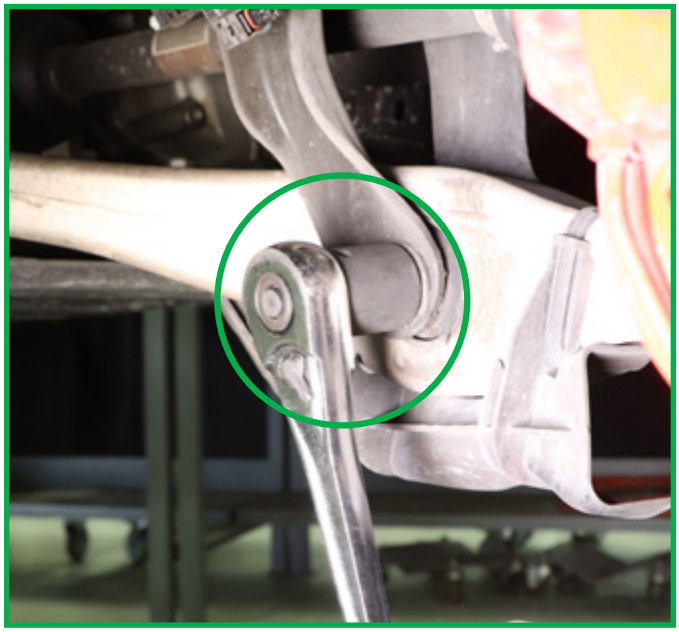

FIGURE 13

16. Disconnect and separate the wheel carrier and upper control arm. (Figures 14, 15)

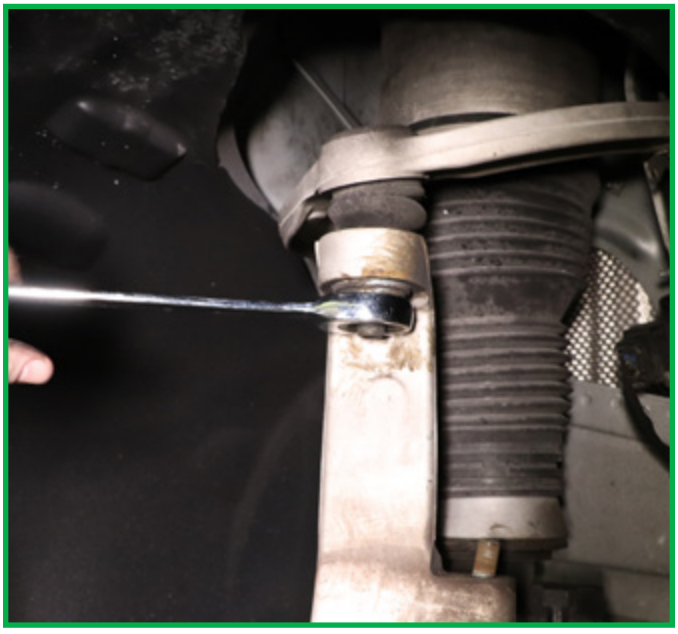

FIGURE 14

FIGURE 15

17. Separate the sway arm link from the wheel carrier mount. (Figure 16)

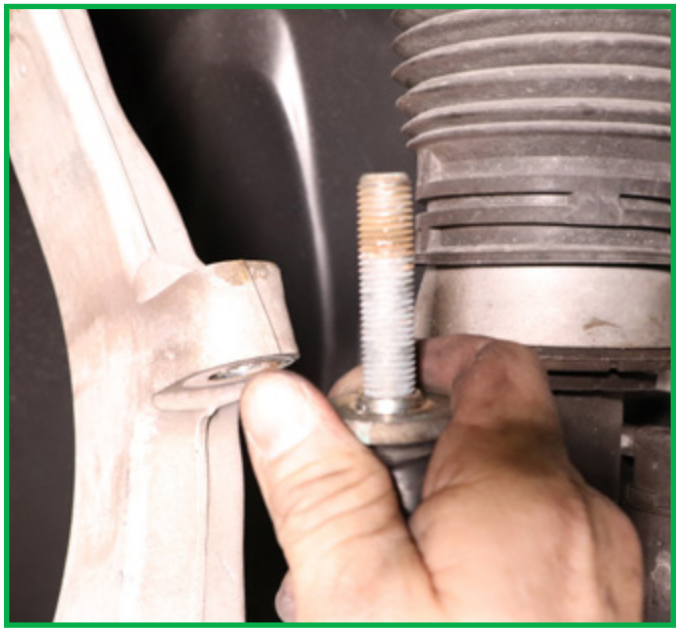

FIGURE 16

18. Disconnect axle at the gearbox enough to help maneuver strut removal. (Figure 17)

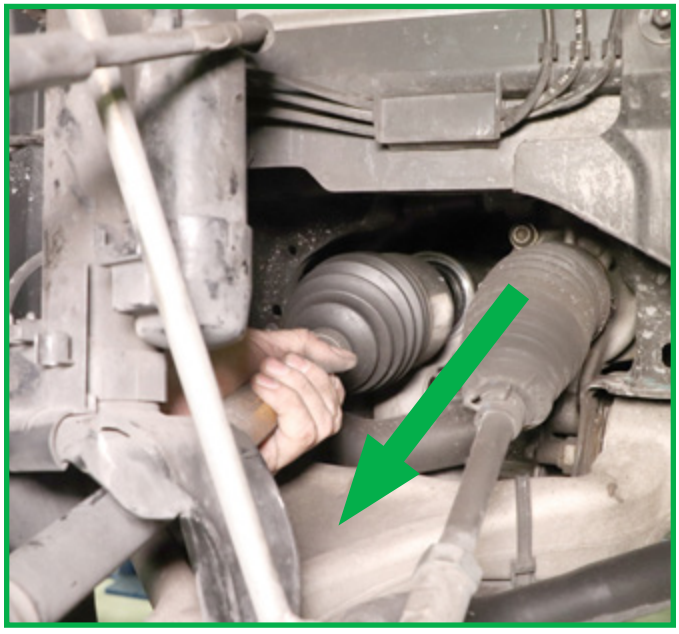

FIGURE 17

19. Carefully remove the air strut. (Figure 18)

FIGURE 18

20. Removal complete.

AIR STRUT INSTALLATION

WARNING:

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

WARNING:

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 19)

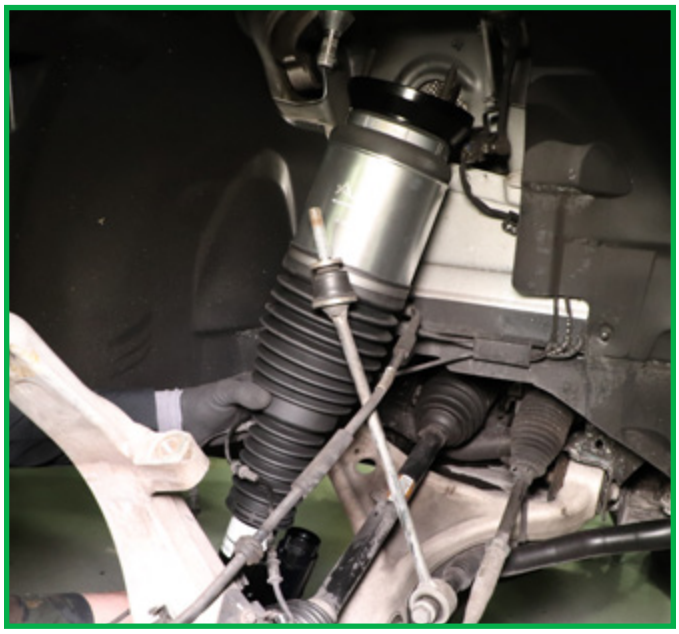

FIGURE 19

2. Reinstall the axle back into the gearbox. (Figure 20)

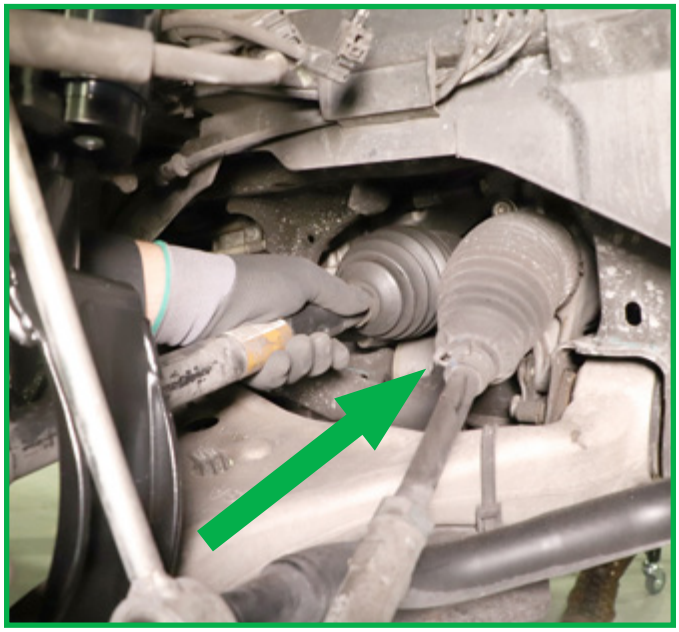

FIGURE 20

3. Reconnect the sway arm link at the wheel carrier mount. (Figure 21)

FIGURE 21

4. Reconnect the wheel carrier and upper control arm. Tighten to manufacturer's specifications. (Figures 22, 23)

FIGURE 22

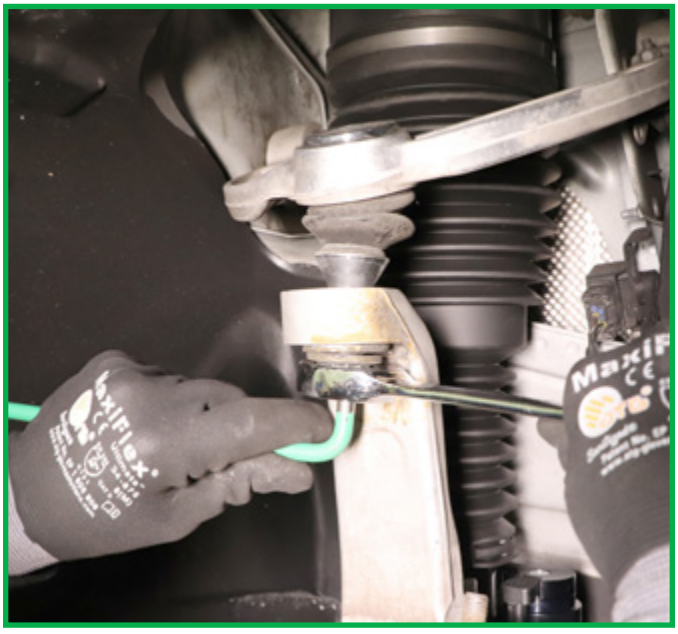

FIGURE 23

5. Install the bottom nut and bolt and tighten to manufacturer's specifications. (Figures 24, 25)

FIGURE 24

FIGURE 25

6. Reconnect the steering link to the wheel carrier mount and tighten to manufacturer's specifications. (Figures 26, 27)

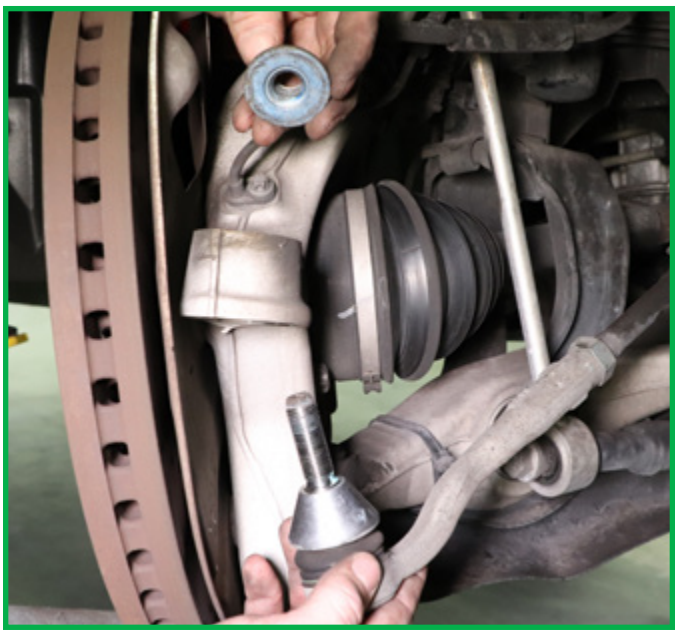

FIGURE 26

FIGURE 27

7. Reinstall sway arm link nut and tighten to manufacturer's specifications. (Figure 28)

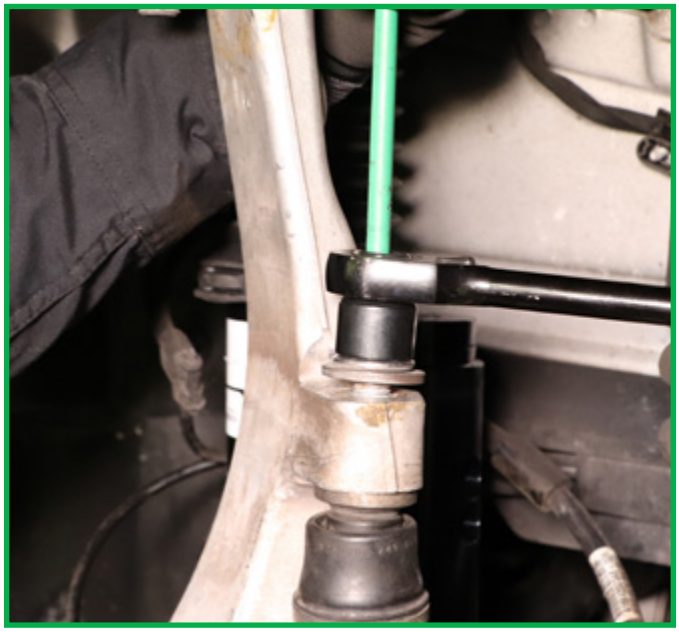

FIGURE 28

8. Reconnect and secure strut damping coil wires. (Figures 29, 30)

FIGURE 29

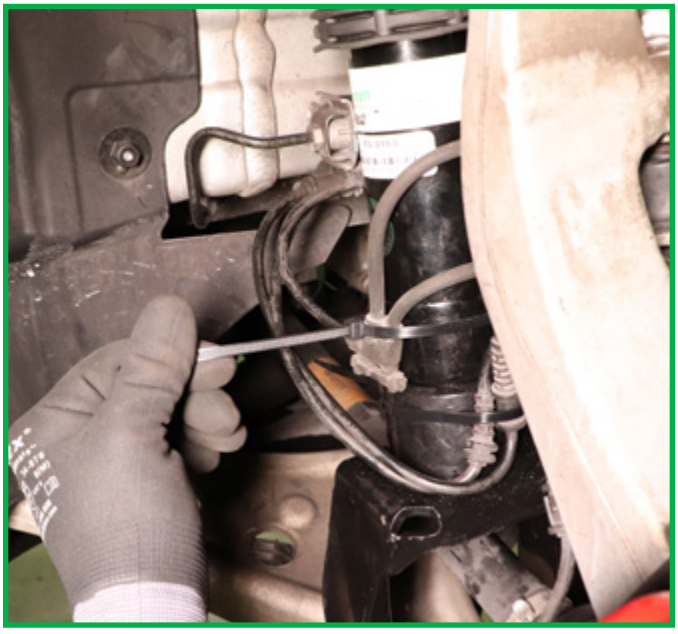

FIGURE 30

9. Install the three (3) top strut mount nuts. Tighten to manufacturer's specifications. (Figure 31)

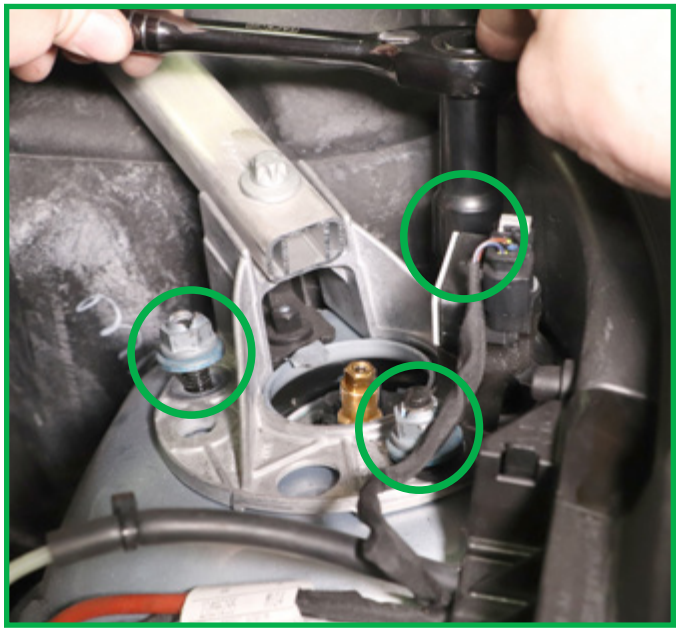

FIGURE 31

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 32, 33)

FIGURE 32

FIGURE 33

11. Reinstall the HVAC air intake box and clip into place.
12. Reinstall the HVAC intake cover panel.
13. Reinstall any additional applicable rubber trim or paneling.
14. Reinstall the right front wheel.
15. Inflate the air system per manufacturer's specifications.
16. Lower the vehicle.
17. Installation complete.

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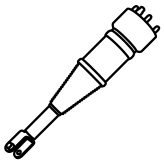
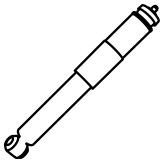
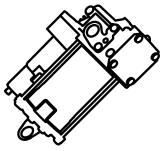
Air Springs



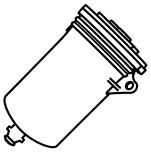
Struts



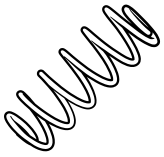
Shocks



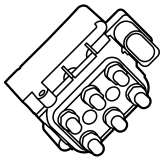
Compressors



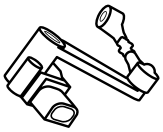
Dryers



Coil Spring Conversion Kits



Valve Blocks



Ride Height Sensors