



# INSTALLATION MANUAL

P-4342

Arnott Air Suspension Compressor  
Ram 2500 (DJ) & 3500 (D2)



**Engineered to Ride, Built to Last<sup>®</sup>**

# 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](http://www.arnottinc.com) and [www.arnotteurope.com](http://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 SUSPENSION COMPRESSOR ASSEMBLY REMOVAL

1. Raise the vehicle.
2. Locate the compressor pump assembly under the right hand side of the vehicle.
3. Disconnect the three (3) electrical connectors from the top of the compressor/valve block assembly. (Figures 1, 2)

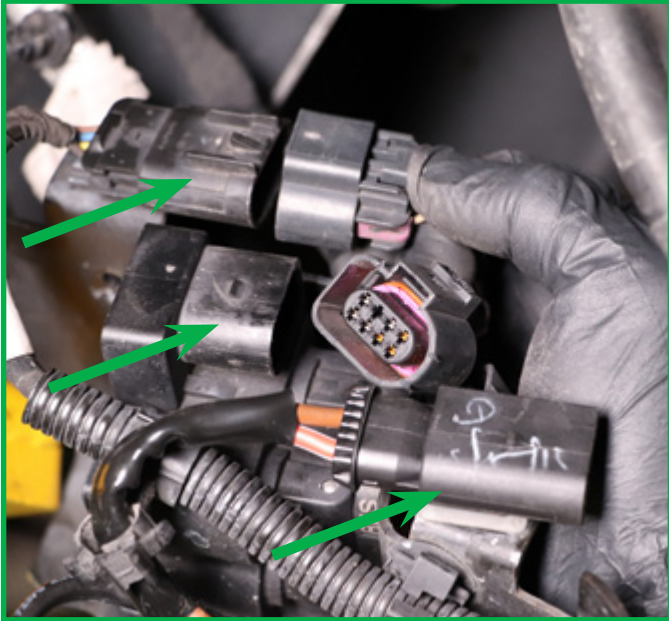


FIGURE 1



FIGURE 2

4. Disconnect the three (3) air lines from the compressor/valve block assembly. (Figures 3, 4)



FIGURE 3



FIGURE 4

5. Disconnect exhaust line from compressor/valve block assembly. (Figure 5)



FIGURE 5

6. Loosen and/or remove the four (4) compressor/valve block assembly mounting bolts and remove the entire assembly from the vehicle. (Figures 6, 7, 8)

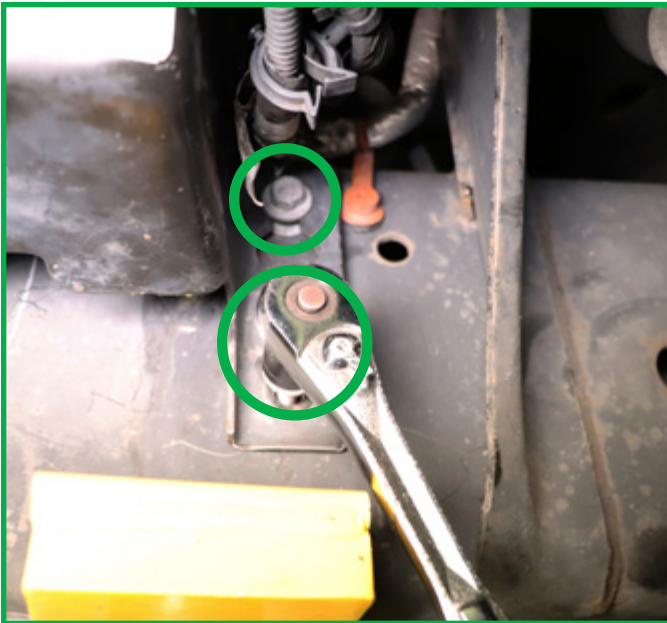


FIGURE 6

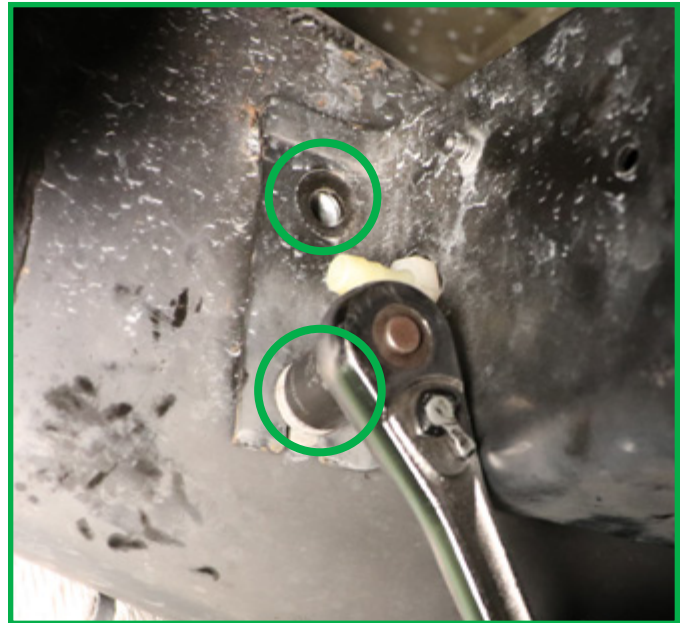


FIGURE 7



FIGURE 8

7. Disconnect the intake/exhaust from the assembly to the compressor body. (Figures 9, 10)

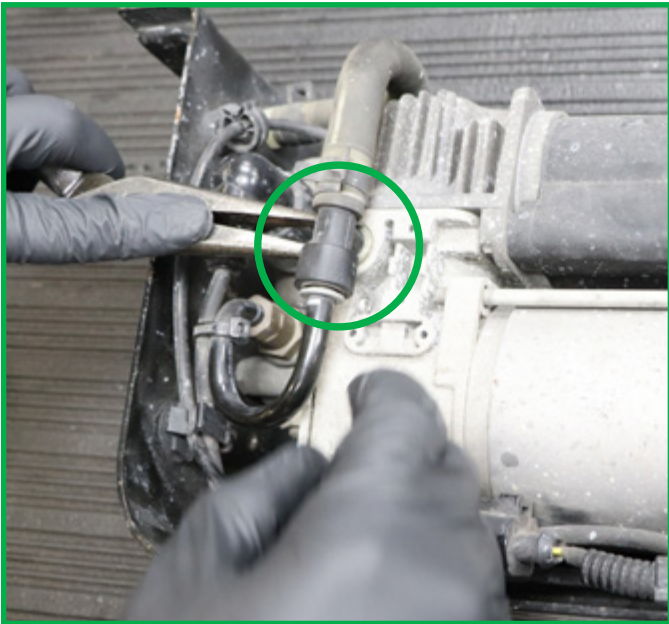


FIGURE 9



FIGURE 10

8. Disconnect the electrical connector from the old compressor to the harness attached to the compressor/valve block assembly. (Figures 11, 12)

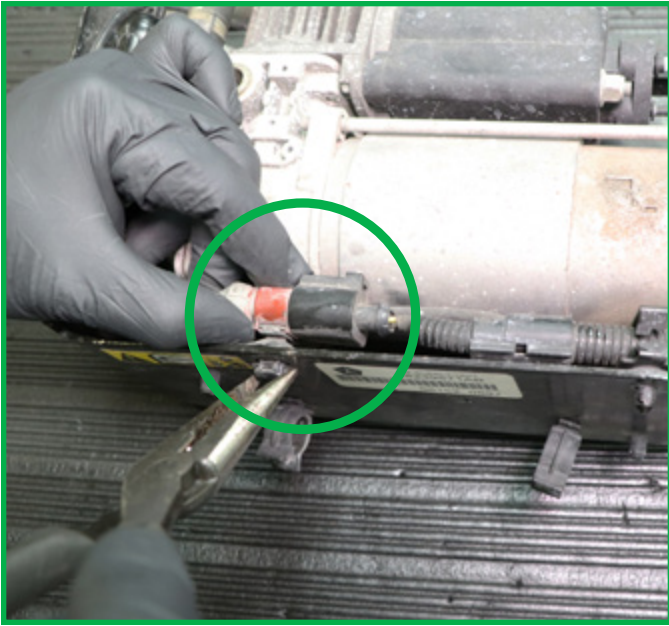


FIGURE 11



FIGURE 12

9. Disconnect the two (2) air lines from the compressor. (Figures 13, 14)



FIGURE 13

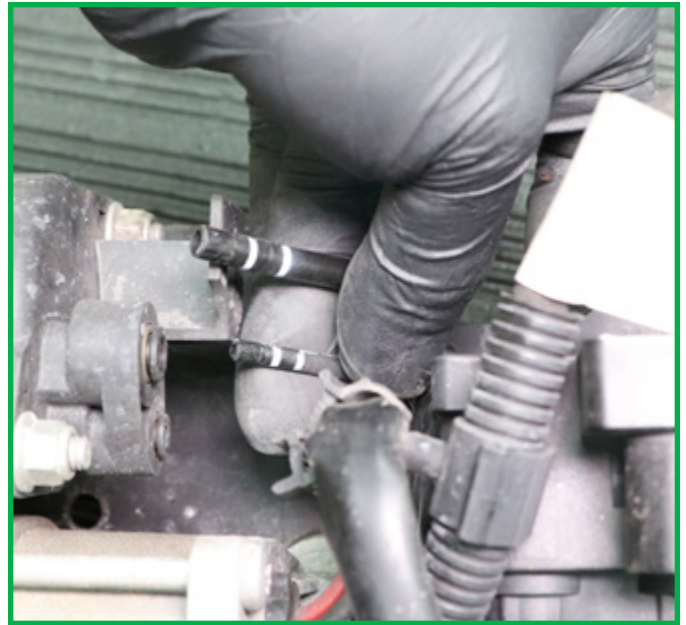


FIGURE 14

10. Unclip and free the compressor electrical connector from the harness that is attached the assembly. (Figure 15)



FIGURE 15

11. Remove the three (3) torx head connector nuts from the compressor assembly. The nuts, springs, and washers will be reused. The set screws will be discarded. (Figures 16, 17)

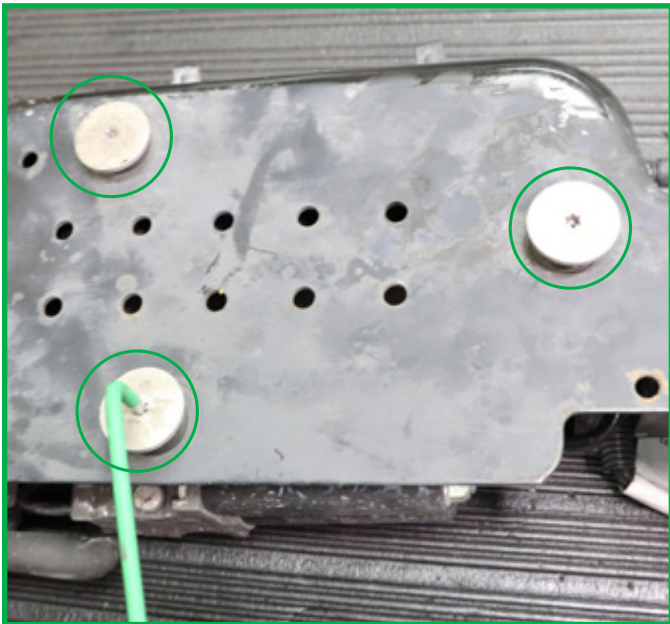


FIGURE 16



FIGURE 17

12. Separate the old compressor from the compressor/valve block assembly bracket. (Figure 18)

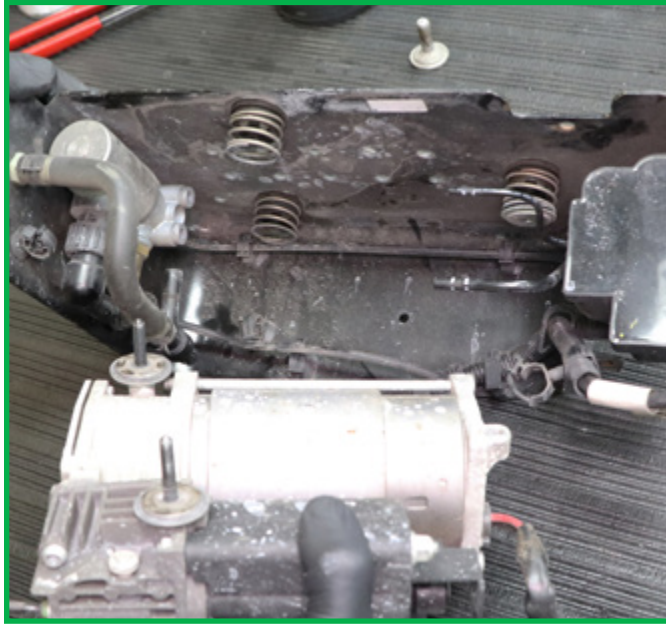


FIGURE 18

13. Removal complete.



# AIR SUSPENSION COMPRESSOR 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 suspension compressor. 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. Prepare the new compressor by installing the three (3) provided set screws into the holes on the pump as pictured below. (Figures 19, 20)



FIGURE 19



FIGURE 20

2. Install the three (3) provided lock washers on to the installed set screws. (Figure 21)



FIGURE 21

3. Reuse the factory washers, springs, and torx head connector nuts to attach the new compressor to the compressor/valve block assembly bracket. (Figures 22, 23, 24, 25)

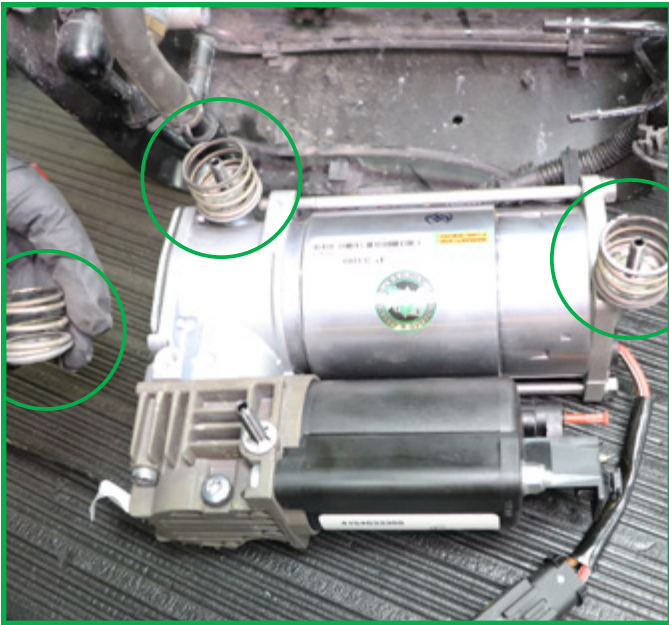


FIGURE 22



FIGURE 23

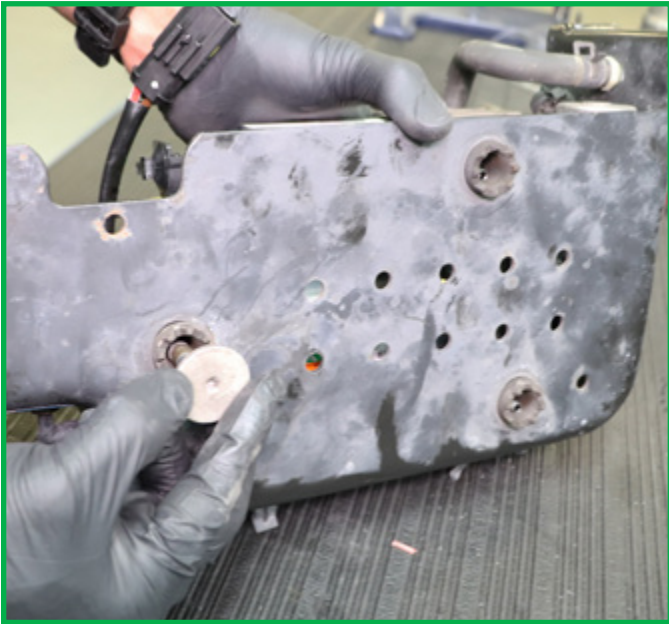


FIGURE 24

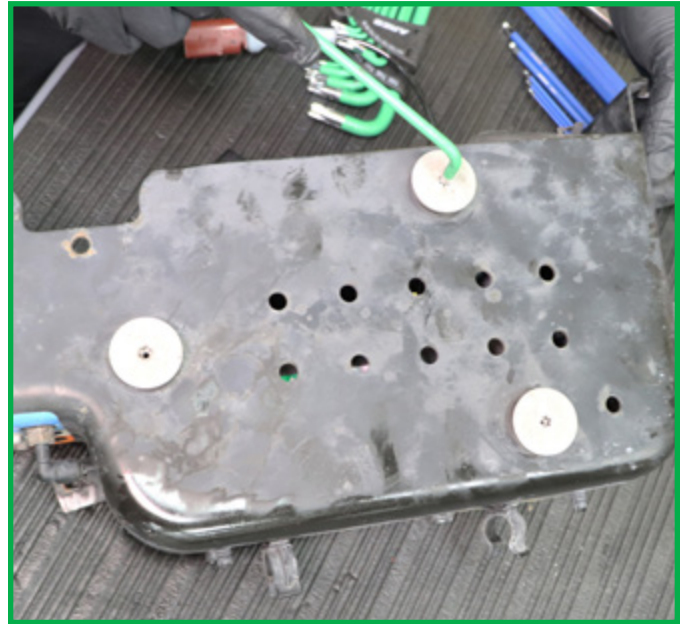


FIGURE 25

4. Remove the two (2) shipping plugs from the compressor. (Figures 26, 27)

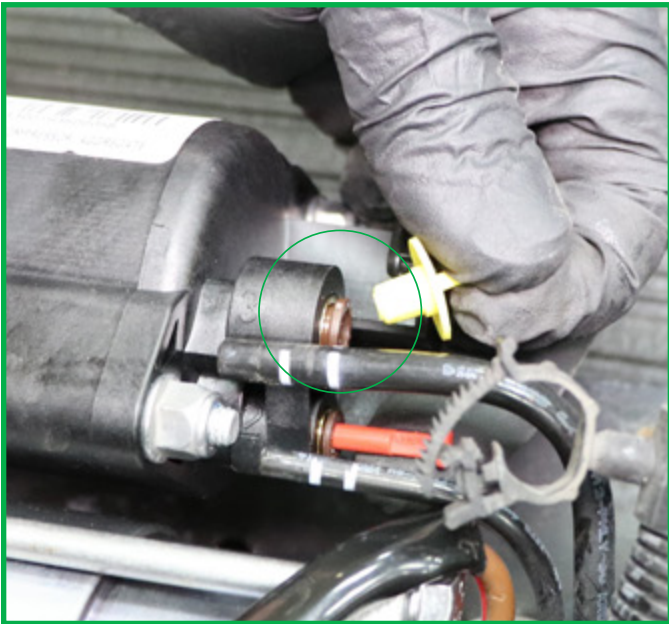


FIGURE 26

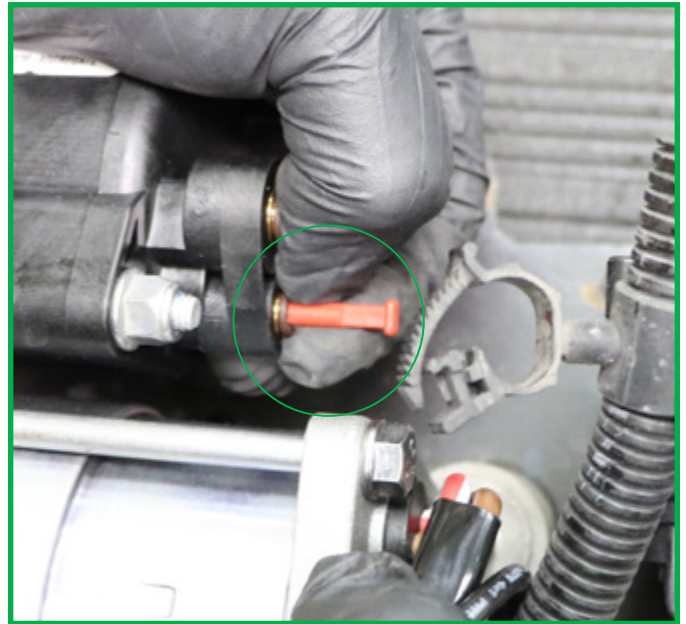


FIGURE 27

5. Insert the existing air lines in to the new compressor. Press in until lines are firmly snug in the compressor. (Figures 28, 29)

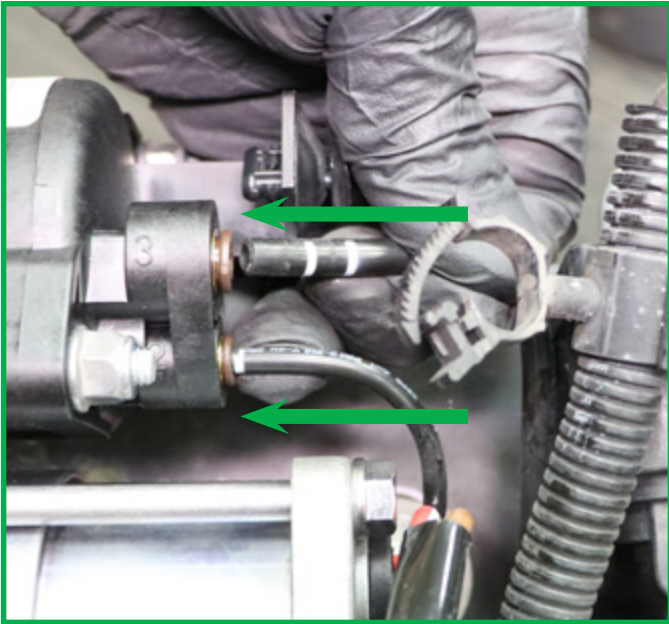


FIGURE 28

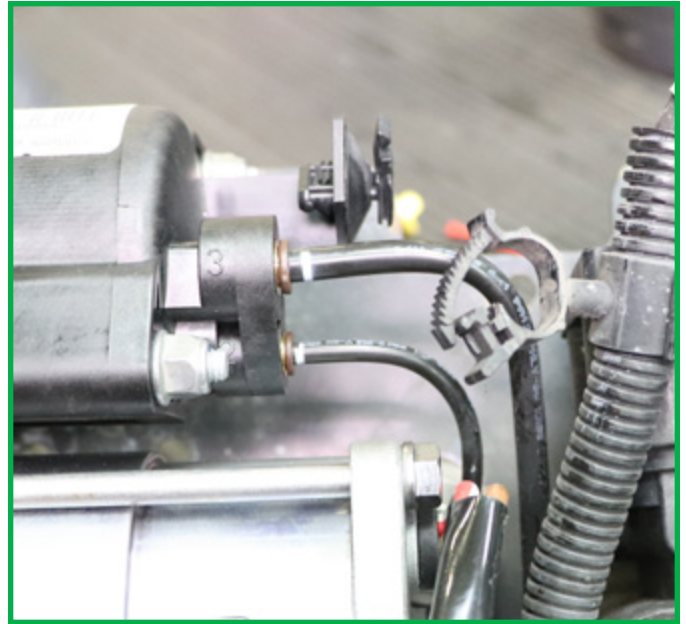


FIGURE 29

6. Clip the new compressor plug to the existing harness on the assembly. (Figures 30, 31)

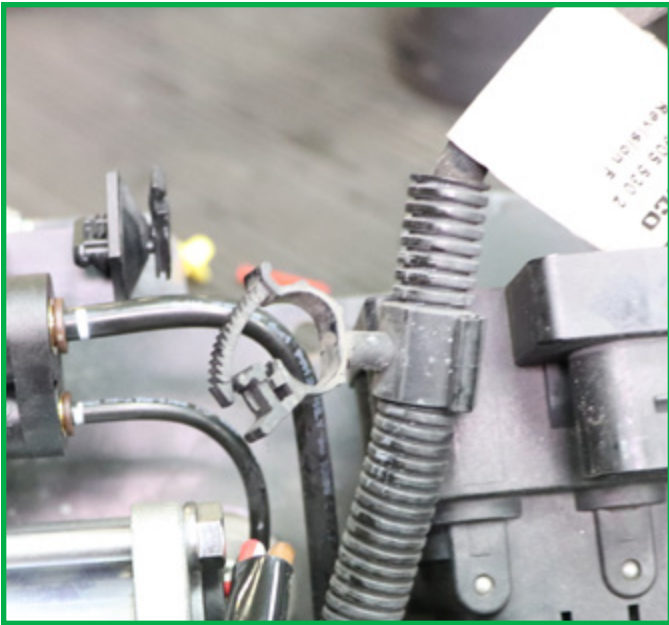


FIGURE 30

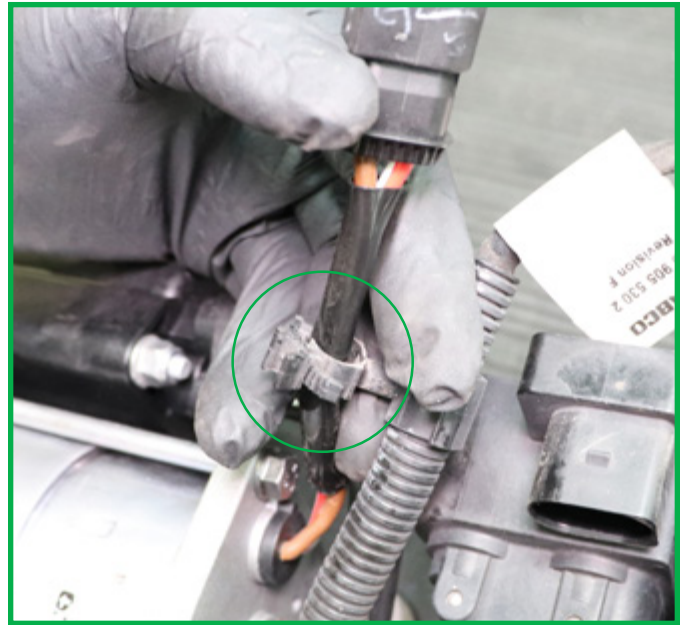


FIGURE 31

7. Attach the provided mounting clip to the electrical connector from the previous step. This will then be hooked on to the compressor/valve block assembly. (Figure 32, 33)



FIGURE 32



FIGURE 33

8. Connect the new compressor electrical connection pictured below to the existing wire harness already attached to the compressor/valve block assembly. (Figures 34, 35)

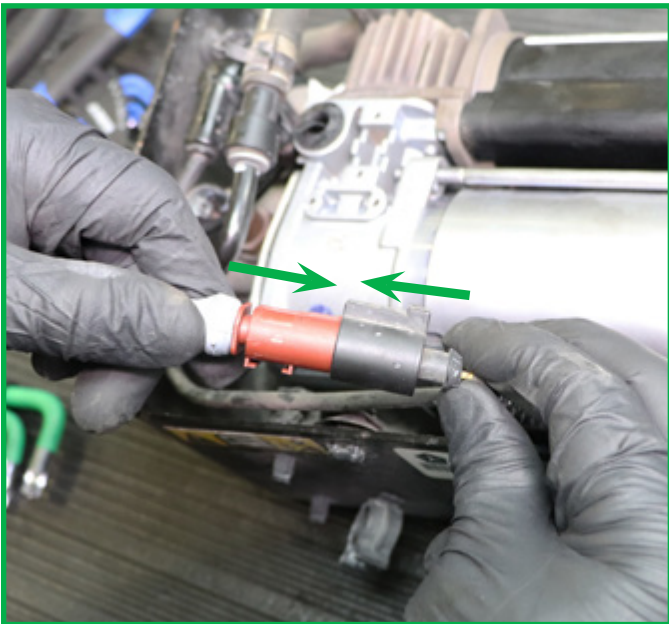


FIGURE 34

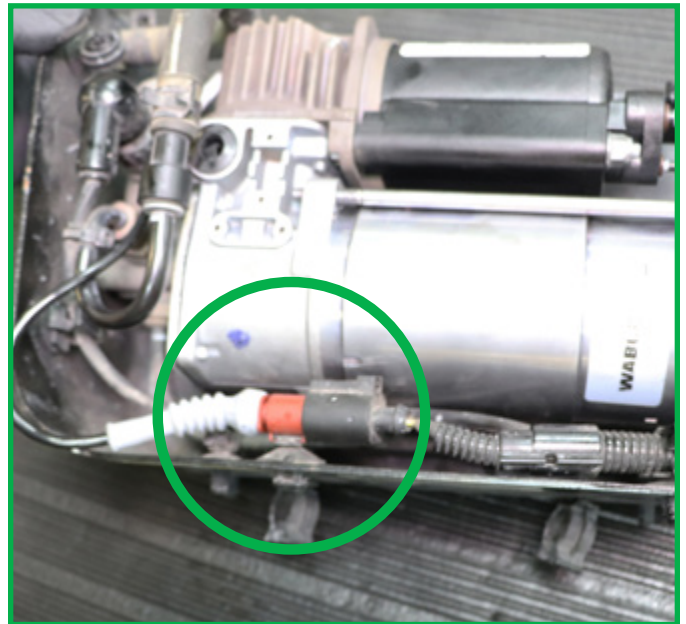


FIGURE 35

9. Remove the shipping plug from the new compressor and insert the existing intake/exhaust port in to the compressor firmly. (Figures 36, 37, 38)

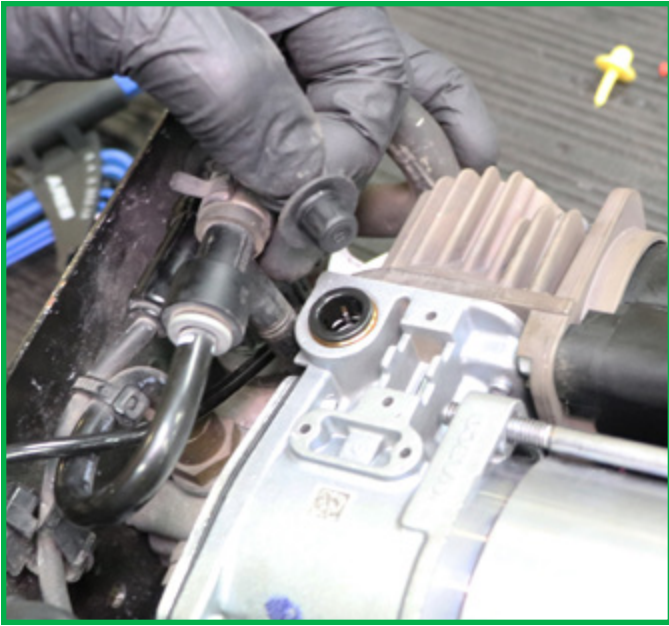


FIGURE 36

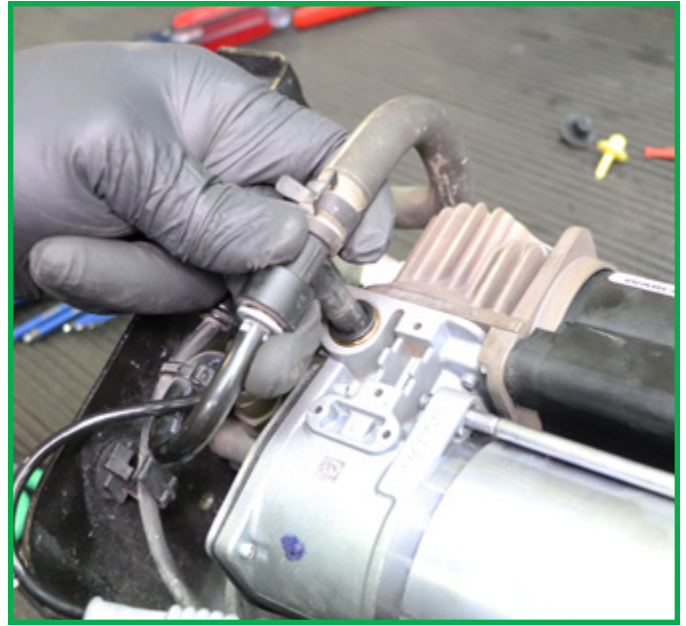


FIGURE 37

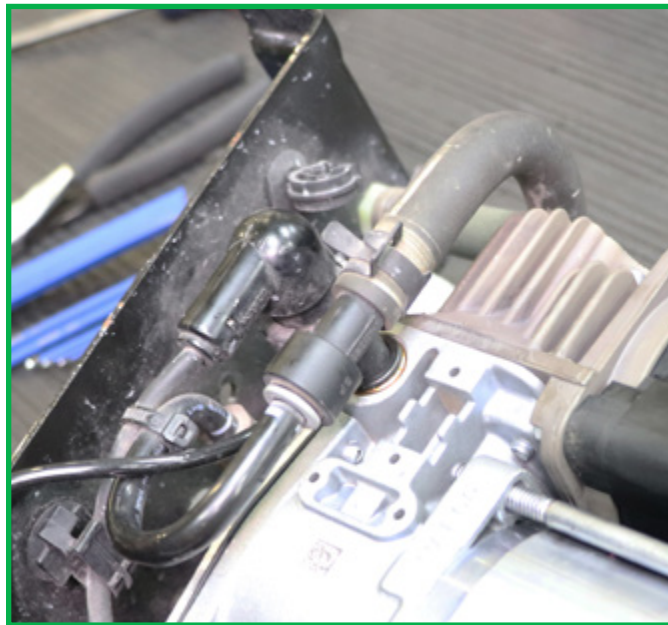


FIGURE 38

10. Install the entire compressor assembly bracket back on to the vehicle and secure the four (4) mounting bolts to manufacturer's specifications. (Figures 39, 40)



FIGURE 39



FIGURE 40

11. Reconnect exhaust line from compressor/valve block assembly. (Figure 41)



FIGURE 41

12. Reconnect the three (3) air lines to the valve block. (Figure 42)

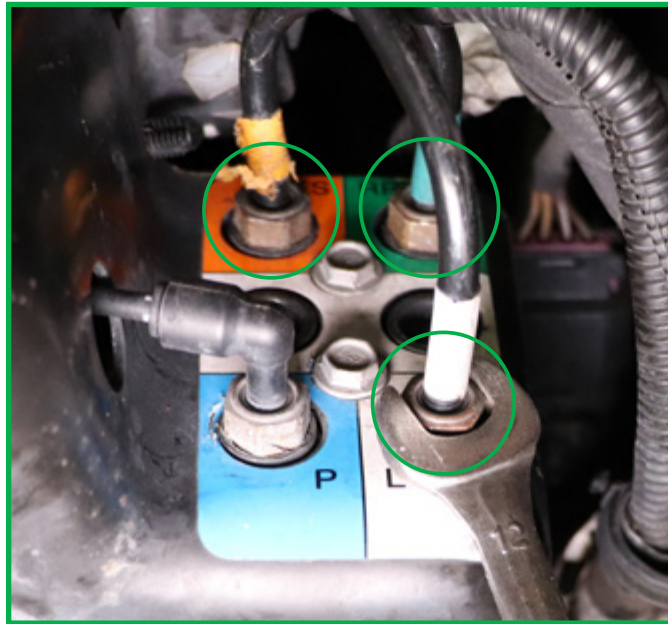


FIGURE 42

13. Reconnect the three (3) electrical connections to the compressor/valve block assembly. (Figures 43, 44, 45)



FIGURE 43



FIGURE 44





FIGURE 45

14. Lower vehicle.
15. Inflate air suspension per manufacturer's specifications.
16. Installation complete.

# Arnott™

## Suspension Products

### Arnott US Business Office:

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

100 Sea Ray Drive  
Merritt Island, FL 32953

**Call:** 800.251.8993

321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Docterskampstraat 1E/1F, 3  
5222 AM 's-Hertogenbosch (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

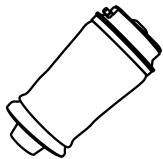
**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

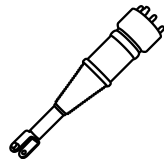
**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

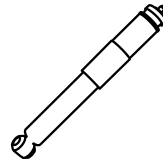
**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



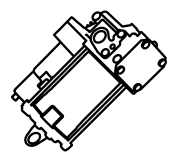
Air Springs



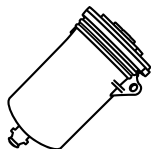
Struts



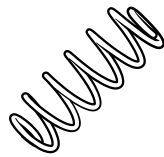
Shocks



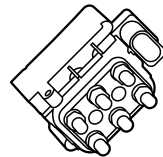
Compressors



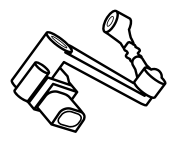
Dryers



Coil Spring  
Conversion Kits



Valve Blocks



Ride Height  
Sensors