

Installation Manual

P-3245
ARNOTT
AIR SUSPENSION COMPRESSOR
2011-2018 JEEP GRAND CHEROKEE (WK2)



Congratulations on your purchase of an Arnett® air suspension product. We at Arnett 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.*

Arnett® is committed to the quality of its products. If you have a question or problem with any Arnett product, please contact Arnett 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) or 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.



This vehicle contains 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 REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. LIFT VEHICLE
3. REMOVE FRONT RIGHT WHEEL. (FIGURE 1)



FIGURE 1

4. REMOVE THE WHEEL WELL LINER TO EXPOSE THE VEHICLE'S AIR SUSPENSION COMPRESSOR. (FIGURES 2, 3)



FIGURE 2

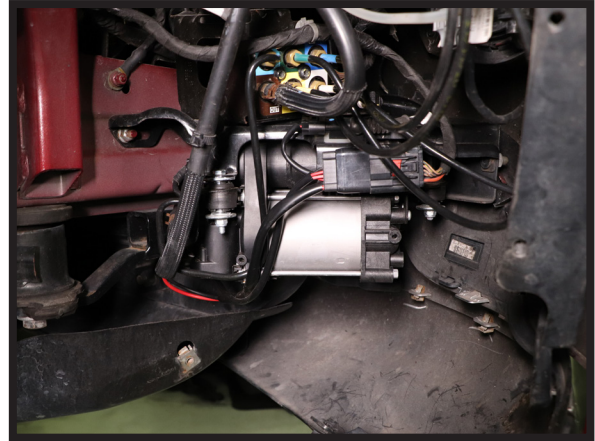


FIGURE 3

5. LOCATE AND DISCONNECT THE TWO (2) ELECTRICAL CONNECTORS FROM THE COMPRESSOR. (FIGURES 4, 5)



FIGURE 4

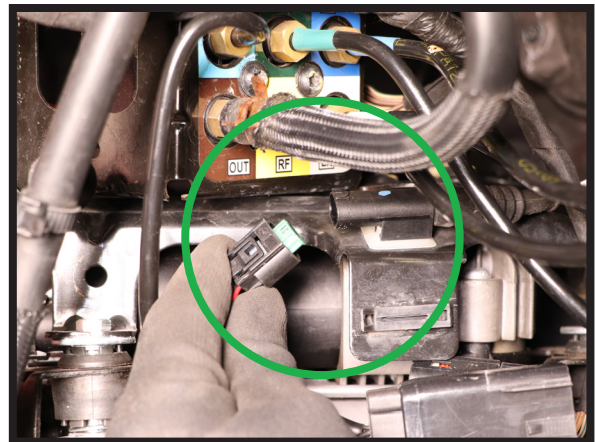


FIGURE 5

6. PINCH AND PULL BACK THE EXHAUST HOSE CLAMP TO DISCONNECT THE EXHAUST HOSE FROM THE PUMP. (FIGURES 6, 7) **NOTE: THE PUSH TO CONNECT ELBOW FITTING HIGHLIGHTED IN FIGURE 7 FOR THE EXHAUST HOSE WILL BE REUSED DURING INSTALLATION.**

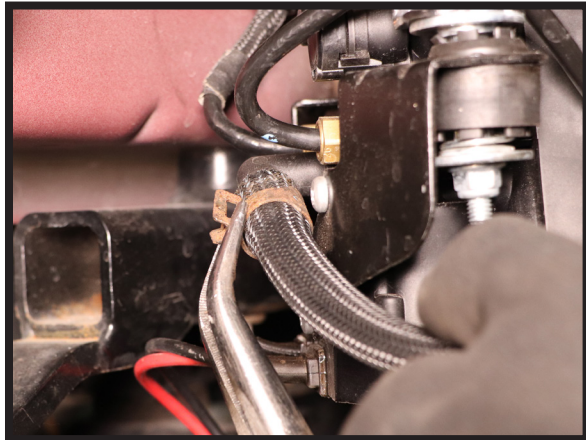


FIGURE 6

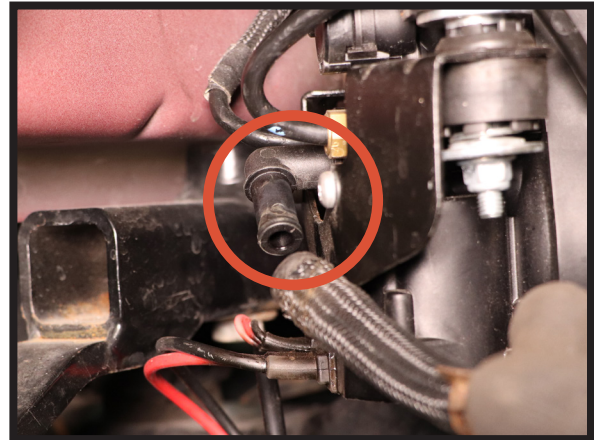


FIGURE 7

7. DISCONNECT THE TWO (2) AIR LINES FROM THE PUMP. (FIGURES 8, 9, 10, 11)



FIGURE 8



FIGURE 9

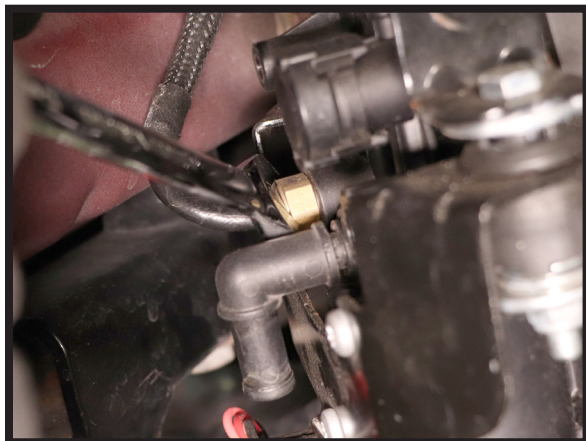


FIGURE 10

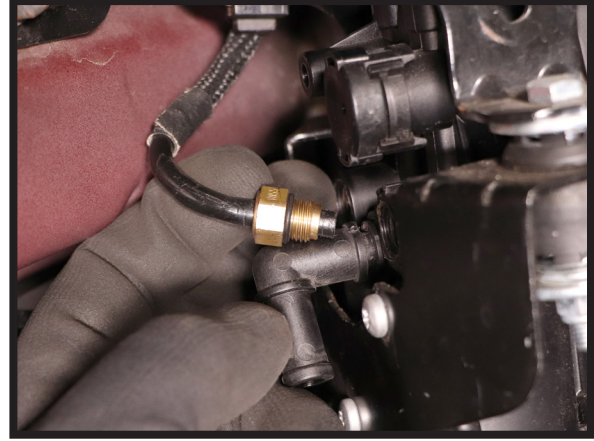


FIGURE 11

8. LOCATE AND REMOVE THE THREE (3) MOUNTING NUTS TO REMOVE THE COMPRESSOR FROM THE VEHICLE. **NOTE: FACTORY HARDWARE WILL BE REUSED IN THE INSTALLATION PROCESS. THE NEW AIR SUSPENSION COMPRESSOR WILL ONLY HAVE NEW RUBBER GROMMETS.** (FIGURES 12, 13, 14, 15)

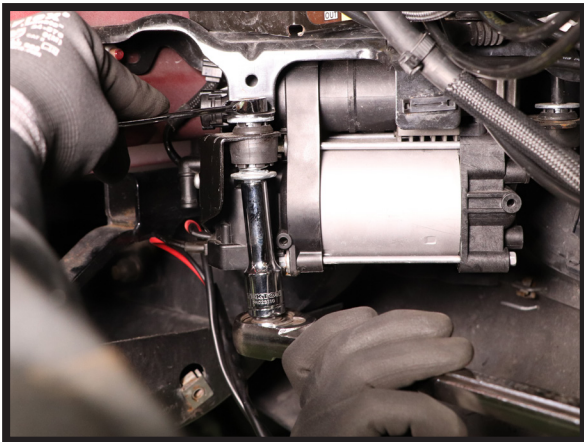


FIGURE 12

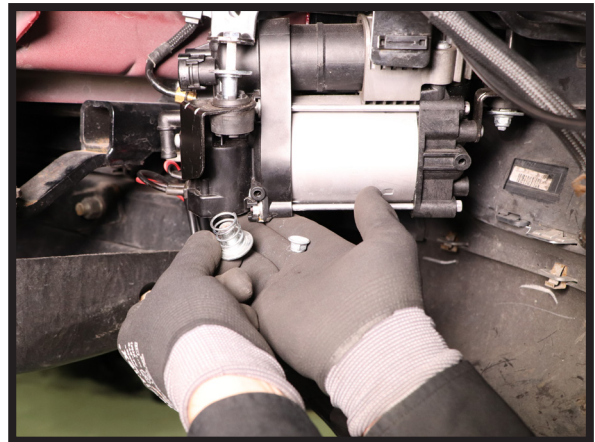


FIGURE 13

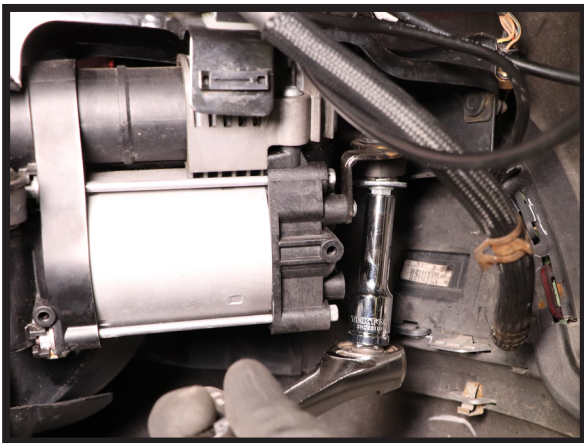


FIGURE 14

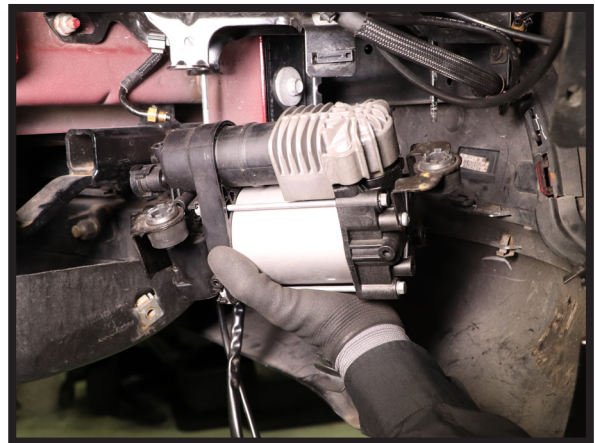

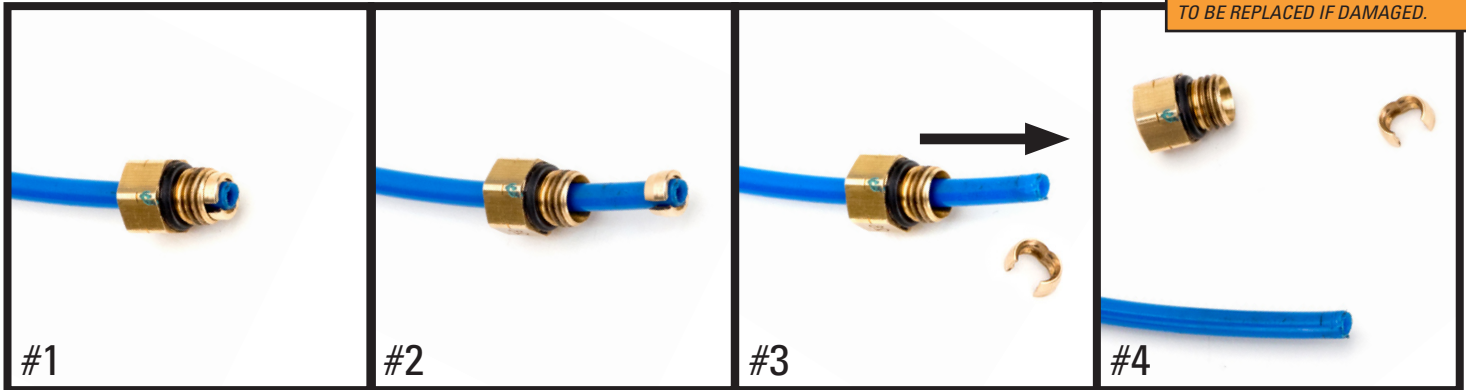


FIGURE 15

9. REMOVE AND DISCARD THE TWO (2) USED AIR LINE FITTINGS FROM THE AIR LINES.
(FIGURES 16, 17, 18)

REMOVAL  Prior to inserting the existing air line into the new air fitting you will need to remove the old original equipment air line fitting.

NOTE: SCRATCHES AND/OR DEEP CUTS IN THE AIR LINE CAN RESULT IN POSSIBLE LEAKS. INSPECT THE AIR LINE BEFORE INSERTION. AIR LINE NEEDS TO BE REPLACED IF DAMAGED.



OE AIR LINE FITTING

SLIDE THE THREADED PORTION UP THE LINE AND SPREAD THE COLLET OPEN TO REMOVE

SLIDE THE AIR FITTING OFF OF THE AIR LINE

AIR LINE IS READY FOR INSTALLATION

FIGURE 16





FIGURE 17



FIGURE 18

10. REMOVAL COMPLETE.

AIR SUSPENSION COMPRESSOR INSTALLATION

-  *Tighten all nuts and bolts to manufacturer's specifications during the installation process.*
-  *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. THE NEW AIR SUSPENSION COMPRESSOR COMES WITH THREE (3) RUBBER GROMMETS INSTALLED. HOWEVER, YOU WILL NEED TO REUSE THE OTHER FACTORY MOUNTING HARDWARE FROM THE REMOVAL PROCESS. (FIGURES 19, 20)



FIGURE 19

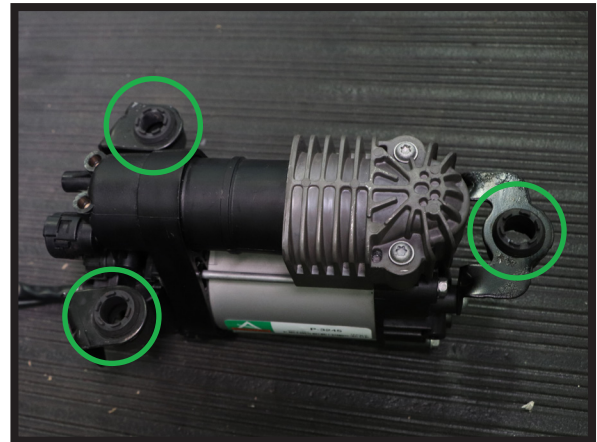


FIGURE 20

2. PULL OUT THE TWO WHITE SHIPPING PINS FROM THE AIR FITTINGS PRIOR TO INSTALLATION. (FIGURES 21, 22) **NOTE: REINSTALL THE PUSH TO CONNECT ELBOW FITTING FOR THE EXHAUST HOSE HIGHLIGHTED IN FIGURE 22**



FIGURE 21



FIGURE 22

3. INSTALL THE COMPRESSOR INTO VEHICLE. REUSE THE SAVED ISOLATOR HARDWARE TO INSTALL THE THREE (3) MOUNTING NUTS. TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 23, 24)



FIGURE 23



FIGURE 24

4. REINSTALL THE EXHAUST HOSE ONTO THE COMPRESSOR AND SLIDE CLAMP INTO PLACE. (FIGURE 25)

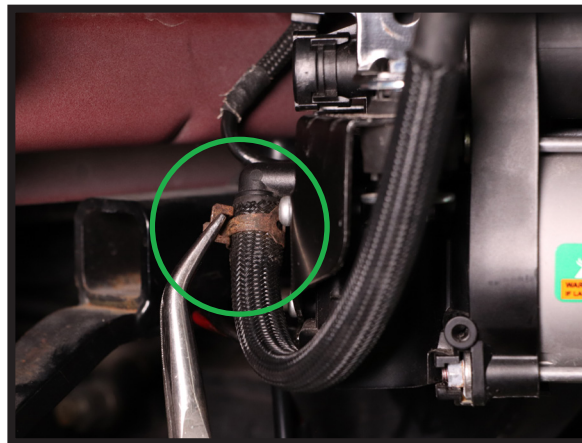


FIGURE 25

5. INSTALL THE TWO (2) AIR LINES BY PUSHING THEM INTO THE NEW AIR FITTINGS UNTIL THEY ARE FULLY SEATED. (FIGURES 26, 27)

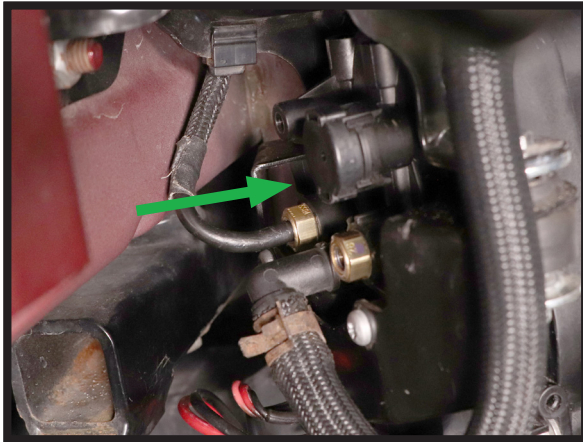


FIGURE 26

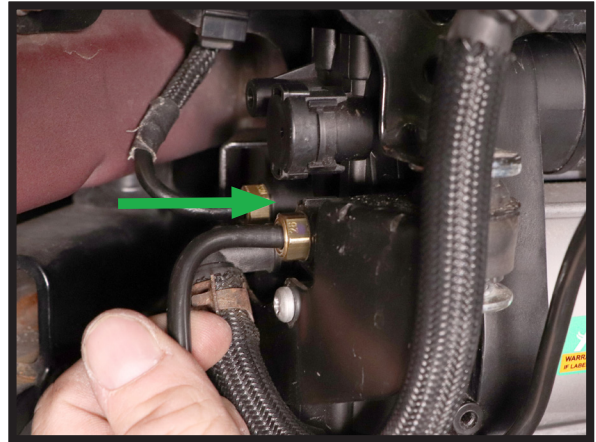


FIGURE 27

6. REINSTALL THE TWO ELECTRICAL CONNECTORS. (FIGURES 28, 29)



FIGURE 26

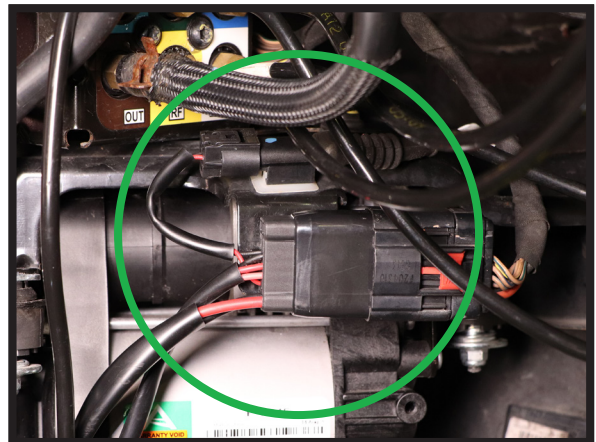


FIGURE 27

PUMP RELAY INSTALLATION

7. UNDER THE VEHICLE HOOD, LOCATE THE FUSE PANEL CONTAINING THE COMPRESSOR PUMP RELAY. REMOVE THE OLD RELAY AND REPLACE WITH ARNOTT PROVIDED RELAY. (FIGURES 28, 29, 30, 31)



FIGURE 28



FIGURE 29



FIGURE 30



FIGURE 31

8. REINSTALL THE WHEEL WELL LINER.
9. REINSTALL THE WHEEL.
10. LOWER THE VEHICLE.
11. INSTALLATION COMPLETE.