

Installation Manual

P-2646 AIR SUSPENSION COMPRESSOR LAND ROVER RANGE ROVER (L322)



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.



If replacing a Hitachi[®] air suspension compressor with the Arnott new compressor, the vehicle **MUST** be re-programmed by your Land Rover dealer. Neglecting to do so can result in compressor failure and void warranty.

AIR SUSPENSION COMPRESSOR ASSEMBLY REMOVAL

1. Remove the floor cover and spare tire in the rear cargo area to expose the vehicle's air suspension compressor housing. (FIGURES 10-1, 10-2)

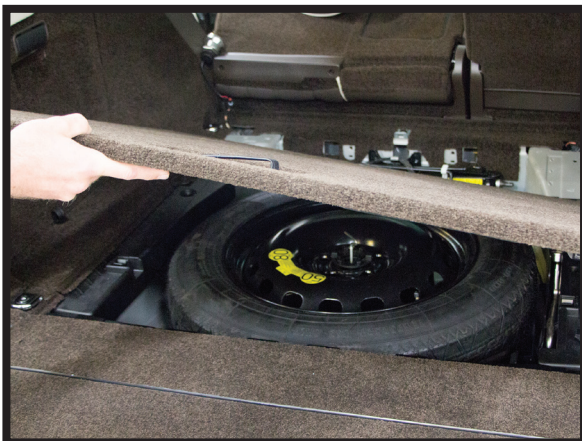


FIGURE 10-1



FIGURE 10-2

2. Remove the four (4) bolts holding the compressor cover to the vehicle. (FIGURE 10-3)



FIGURE 10-3

3. Remove the two (2) foam pads and the compressor cover from the vehicle. (FIGURES 10-4, 10-5, 10-6)



FIGURE 10-4



FIGURE 10-5



FIGURE 10-6

4. Remove the valve block from the compressor bracket. (FIGURES 10-7, 10-8)



FIGURE 10-7

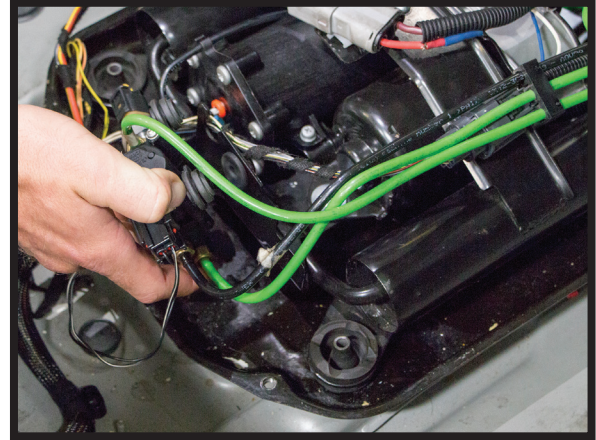


FIGURE 10-8

5. Remove the air line and fitting (located next to the pressure sensor) from the valve block. (FIGURE 10-9)

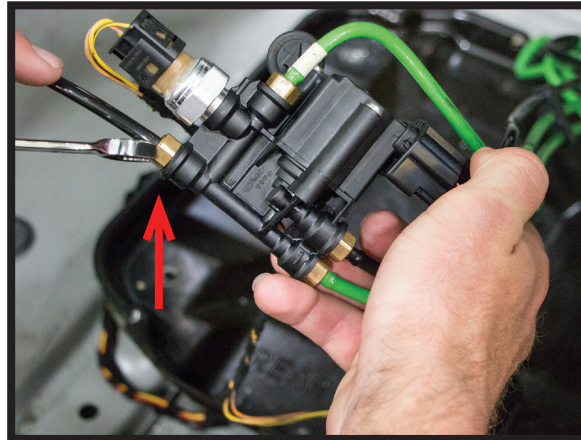


FIGURE 10-9

6. Remove the lower air line from the compressor. Press and hold the quick connect fitting while pulling out on the air line. (FIGURES 10-10, 10-11)



FIGURE 10-10

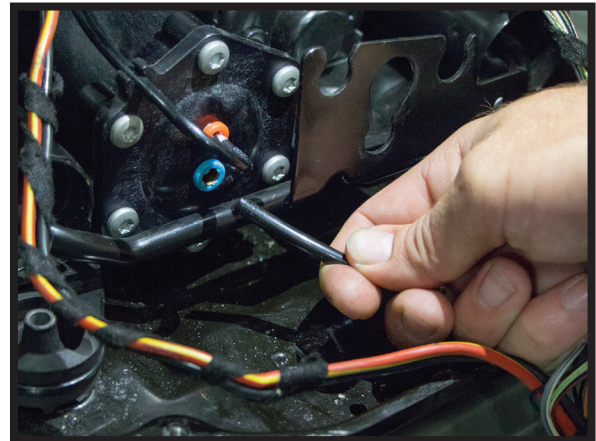


FIGURE 10-11

7. Disconnect the two (2) electrical connectors from the compressor assembly to the vehicle. (FIGURES 10-12, 10-13, 10-14, 10-15)



FIGURE 10-12

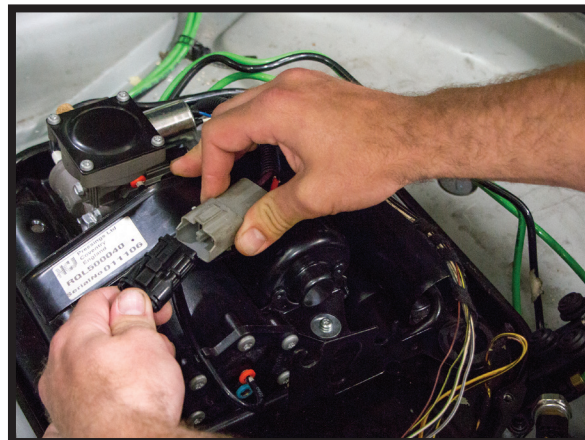


FIGURE 10-13



FIGURE 10-14



FIGURE 10-15

8. Remove the four (4) mounting bolts holding the compressor assembly to the vehicle. Carefully remove the compressor assembly. (FIGURE 10-16)

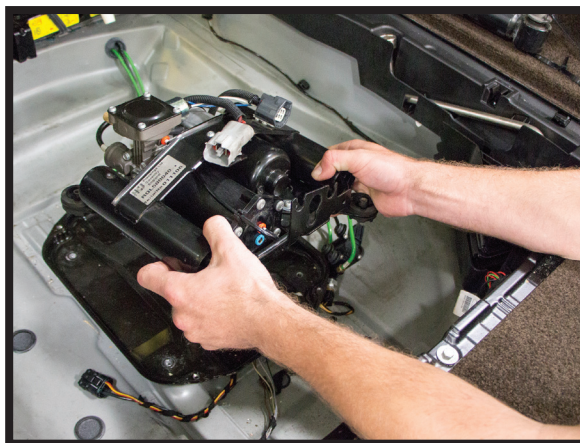


FIGURE 10-16

AIR SUSPENSION COMPRESSOR ASSEMBLY INSTALLATION



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

1. Install the compressor assembly into the vehicle using the pre-installed mounting hardware. (FIGURE 20-1)

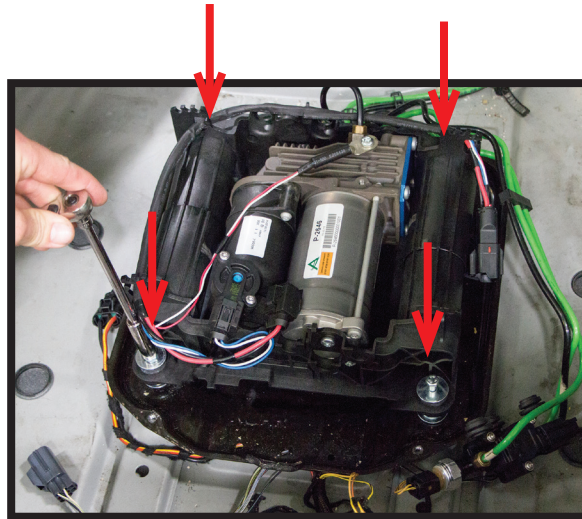


FIGURE 20-1

2. Connect the pre-installed air fitting to the valve block. (FIGURES 20-2, 20-3)

NOTE: DO NOT OVERTIGHTEN THE AIR LINE FITTING!

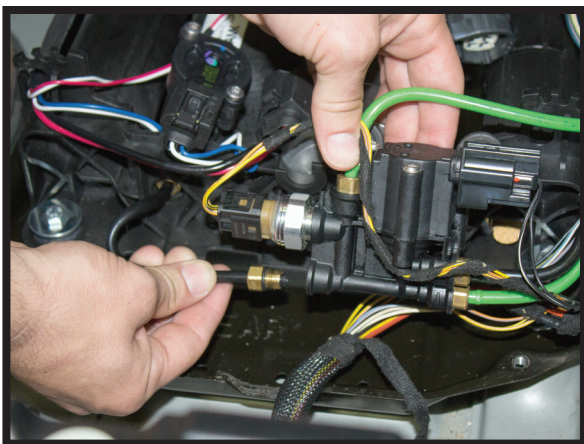


FIGURE 20-2

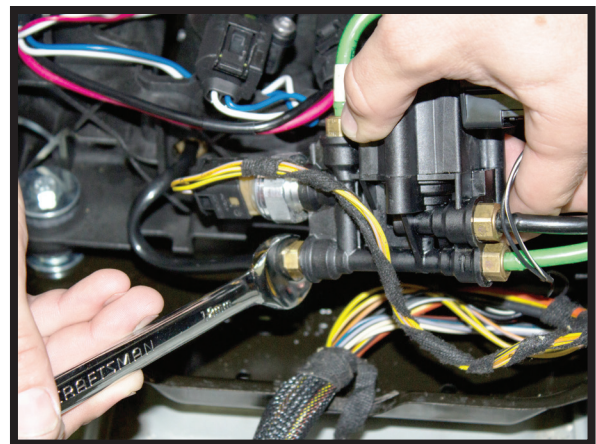


FIGURE 20-3

3. Install the valve block onto the mounting bracket. (FIGURES 20-4, 20-5)

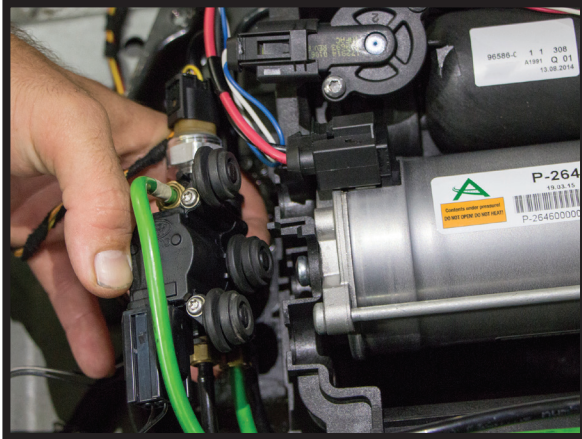


FIGURE 20-4

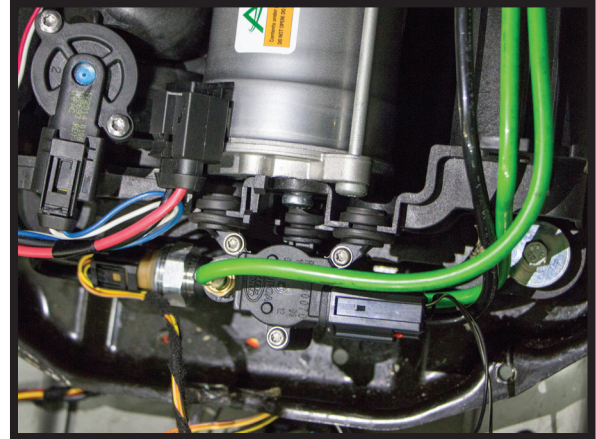


FIGURE 20-5

4. Connect the two (2) electrical connectors from the compressor to the vehicle's wiring harness. (FIGURES 20-6, 20-7)



FIGURE 20-6

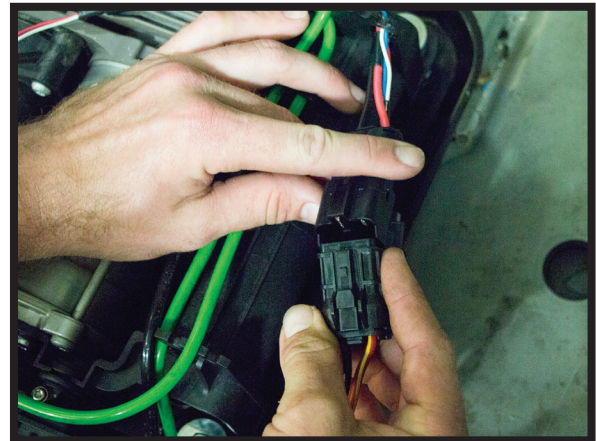


FIGURE 20-7

5. Secure the air hoses and wiring harness to the mounting bracket. (FIGURES 20-8, 20-9)




FIGURE 20-8



FIGURE 20-9

6. Re-install the air compressor cover, foam pads, spare tire and cargo area floor in the reverse order of removal using the factory mounting hardware.

 *If replacing a Hitachi[®] air suspension compressor with the Arnett new compressor, the vehicle **MUST** be re-programmed by your Land Rover dealer. Neglecting to do so can result in compressor failure and void warranty.*

REPLACING AIR SUSPENSION COMPRESSOR RELAY

1. The air suspension compressor relay is located on the right side of the rear cargo area. (FIGURE 30-1, 30-2)



FIGURE 30-1

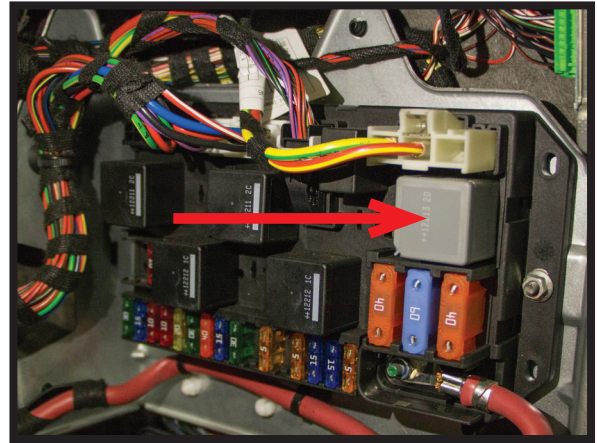


FIGURE 30-2

2. Remove the compressor relay and replace with the unit provided in this kit. (FIGURE 30-3)

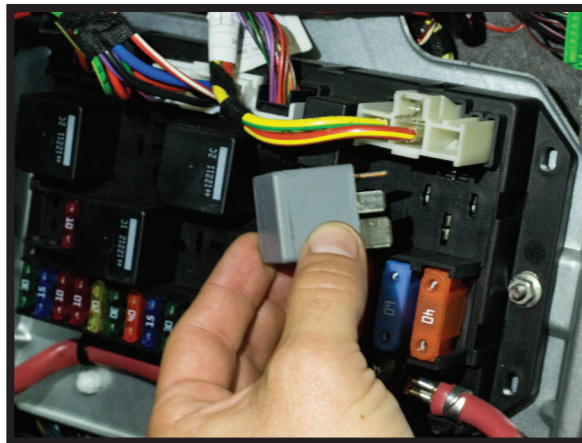



FIGURE 30-3

 *Failure to replace this relay can cause compressor damage and/or void warranty.*



WARNING



CRACKED AIR SPRINGS MUST BE CHANGED TO VALIDATE THE WARRANTY ON THE COMPRESSOR

PLEASE READ ADDITIONAL WARRANTY INFORMATION ON THE BACK OF YOUR INVOICE



PROPER PROCEDURE FOR ASSESSING YOUR AIR SPRINGS CONDITION:

1. Turn off air suspension switch if equipped.
2. Refer to owner's manual for proper lifting techniques and jacking points.
3. Raise the vehicle.
4. Inspect air springs for any type of cracks or excessive wear. Cracks in air springs are evident if they are leaking. This will cause the compressor to overheat from continuous operation.

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)