

# Installation Manual

AS-2798  
ARNOTT  
FRONT LEFT AIR STRUT  
LAND ROVER RANGE ROVER W/VDS (L322)



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.*

## GENERAL INFORMATION:

- 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.*

## AIR STRUT REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. RAISE THE HOOD TO ACCESS THE AIR STRUT'S TOP DAMPER.
3. REMOVE THE TWO (2) BOLTS HOLDING THE DAMPER TO THE TOP OF THE AIR STRUT. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

4. REMOVE THE DAMPER FROM THE WIRE. (FIGURE 3)



FIGURE 3

5. REMOVE THE ELECTRICAL PLUG FROM THE TOP OF THE SHOCK ROD BY PRESSING IN ON THE TWO (2) SIDES AND PULLING UP. (FIGURE 4)



FIGURE 4

6. RAISE VEHICLE AND REMOVE FRONT RIGHT WHEEL.  
7. REMOVE THE BRAKE HOSE AND ABS SENSOR WIRE FROM THE RETENTION BRACKET ON THE STRUT. (FIGURE 5)



FIGURE 5

8. REMOVE THE SENSOR FROM THE SMALL PLASTIC CLIP AT THE BOTTOM OF THE SHOCK. (FIGURE 6)

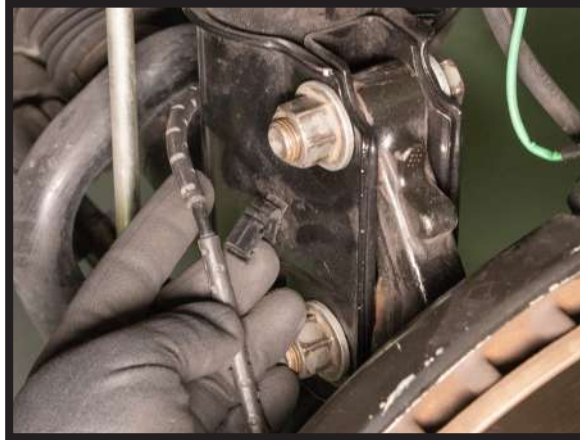


FIGURE 6

9. DISCONNECT THE SWAY BAR LINK BY REMOVING THE NUT HOLDING THE BALL JOINT TO THE STRUT. YOU MAY NEED TO HOLD THE BALL JOINT FROM SPINNING BY PLACING A WRENCH ON THE TWO FLATS OF THE BALL JOINT ON THE BACK SIDE OF THE BRACKET. (FIGURE 7)



FIGURE 7

10. REMOVE THE THREE (3) UPPER MOUNT NUTS. (FIGURE 8)



11. REMOVE THE TWO LARGE BOLTS THAT HOLD THE STRUT TO THE SPINDLE ASSEMBLY. WITH THE NUTS AND BOLTS REMOVED FROM THE SPINDLE ASSEMBLY, PULL THE SPINDLE OUTWARD WHILE PUSHING THE STRUT. (FIGURES 9, 10)



FIGURE 9



FIGURE 10

12. WITH THE AIR STRUT REMOVED, YOU CAN NOW GAIN ACCESS TO ITS HOSE CONNECTION. SLOWLY REMOVE THE FITTING TO DEFLATE AND FREE THE ASSEMBLY. REMOVE THE AIR LINE FITTING FROM THE AIR HOSE AND DISCARD. (FIGURE 11)



FIGURE 11

13. 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. INSTALL THE SHOCK INTO THE VEHICLE. (FIGURE 12)



FIGURE 12

2. INSTALL THE AIR LINE BY PUSHING IT IN UNTIL IT IS FIRMLY SEATED. PULL ON THE AIR LINE TO ENSURE THAT IT IS FIRMLY SECURED AND WILL NOT POP OUT. (FIGURE 13)



FIGURE 13

3. INSTALL THE TWO BOTTOM MOUNT SHOCK BOLTS AND NUTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 14)

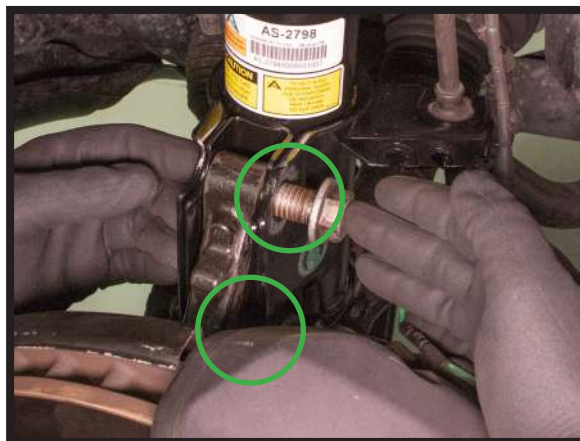


FIGURE 14

4. UNDER THE HOOD, INSTALL THE THREE TOP SHOCK MOUNTING NUTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 15)



FIGURE 15

5. INSTALL THE UPPER SWAY BAR END LINK NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 16)



FIGURE 16

6. SECURE THE BRAKE HOSE AND ABS SENSOR WIRES ONTO THEIR RESPECTIVE RETENTION BRACKETS ON THE STRUT. (FIGURES 17, 18)



FIGURE 17

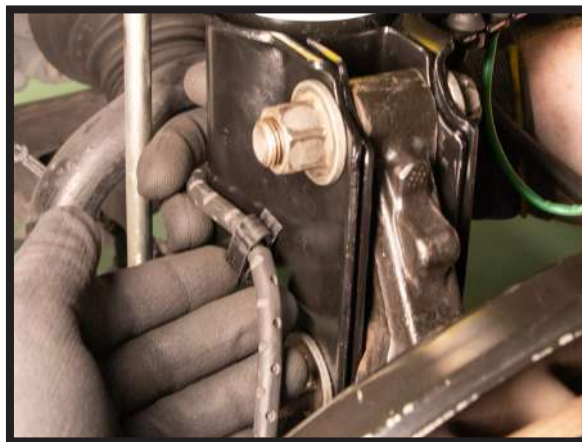


FIGURE 18



7. UNDER THE HOOD, INSTALL THE DAMPER AND SECURE USING THE PROVIDED HARDWARE. TIGHTEN TO 10 NM. (FIGURES 19, 20)



FIGURE 19



FIGURE 20

8. INSTALL THE ELECTRICAL PLUG INTO THE DAMPER. (FIGURE 21)



FIGURE 21

9. CLOSE THE HOOD.  
10. SET THE STEERING TO STRAIGHT AHEAD.  
11. REINSTALL THE WHEEL.  
12. LOWER THE VEHICLE.  
13. INSTALLATION COMPLETE.