

# Installation Manual

AS-3017  
ARNOTT  
FRONT AIR STRUT  
DODGE RAM 1500 (DS/DJ)



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.*

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling 800-251-8993 during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com). (In the EU please call +31 (0)73 7850 580 or email [info@arnotteurope.com](mailto: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](http://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.*

## AIR SHOCK REMOVAL

1. SET STEERING TO STRAIGHT AHEAD.
2. RAISE VEHICLE.

**NOTE:** REFER TO THE SERVICE MANUAL FOR PROPER DEFLATION PROCEDURE.

3. REMOVE APPLICABLE FRONT WHEEL. (FIGURE 1)



FIGURE 1

4. LOOSEN AND REMOVE THE TIE ROD END NUT. (FIGURE 2)



FIGURE 2

5. LOOSE AND REMOVE THE TWO SWAY BAR END LINK NUTS. (FIGURES 3, 4)

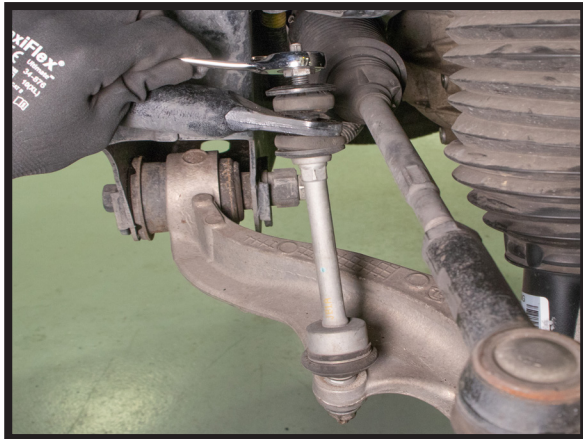


FIGURE 3

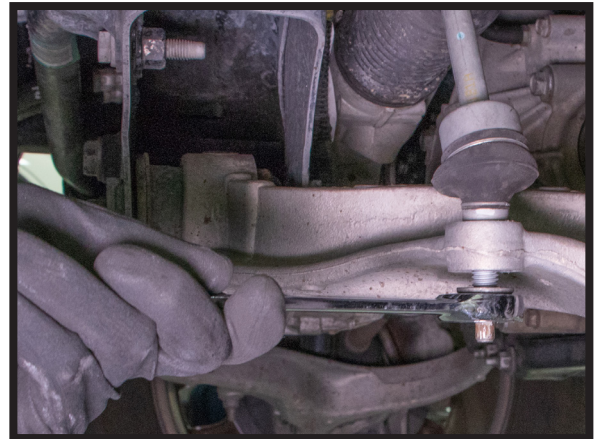


FIGURE 4

6. LOOSEN AND REMOVE THE UPPER CONTROL ARM NUT. (FIGURE 5)



FIGURE 5

7. LOOSEN AND REMOVE THE NUT AND BOLT FROM THE BOTTOM STRUT FORK. (FIGURE 6)

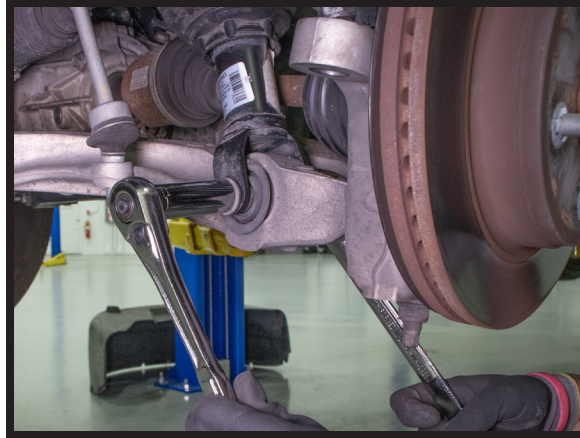


FIGURE 6

8. LOOSEN AND REMOVE THE AIR FITTING FROM THE TOP OF THE STRUT. (FIGURE 7)

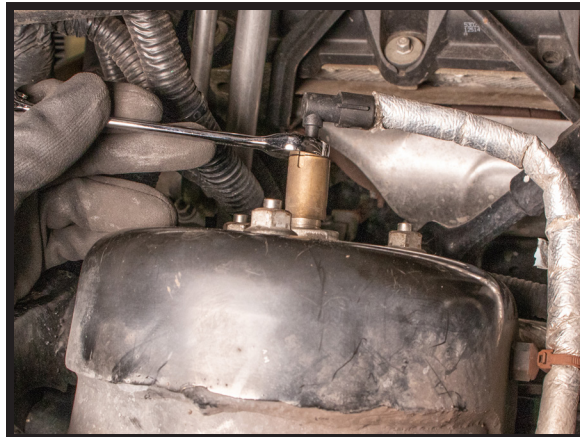


FIGURE 7

9. LOOSEN AND REMOVE THE THREE TOP STRUT MOUNTING NUTS. (FIGURE 8)



FIGURE 8

10. REMOVE THE STRUT. (FIGURE 9)



FIGURE 9

11. REMOVAL COMPLETE.

## AIR SHOCK INSTALLATION

12. INSTALL THE NEW STRUT INTO THE VEHICLE. (FIGURE 10)

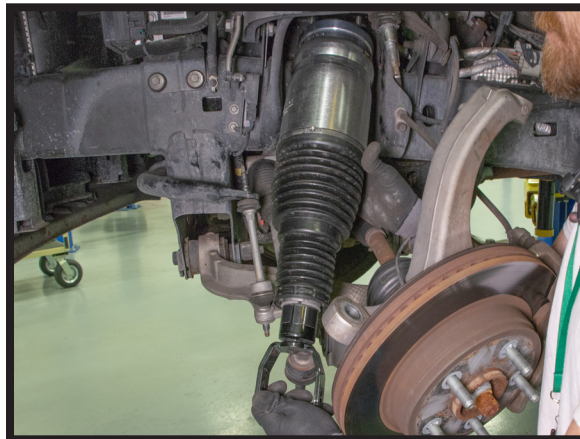


FIGURE 10

13. INSTALL THE THREE TOP STRUT MOUNTING NUTS AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 11)



FIGURE 11

14. REMOVE THE WHITE SHIPPING PIN FROM THE AIR STRUT AND DISCARD. (FIGURE 12)



FIGURE 12

15. REMOVE THE EXISTING AIR LINE ELBOW, AND THEN INSTALL THE NEW ELBOW ONTO THE AIR LINE. (FIGURES 13, 14)



FIGURE 13



FIGURE 14

16. INSTALL THE AIR LINE UNTIL FULLY SEATED, PULLING OUTWARD SLIGHTLY TO CONFIRM ENGAGEMENT. (FIGURES 15, 16)



FIGURE 15

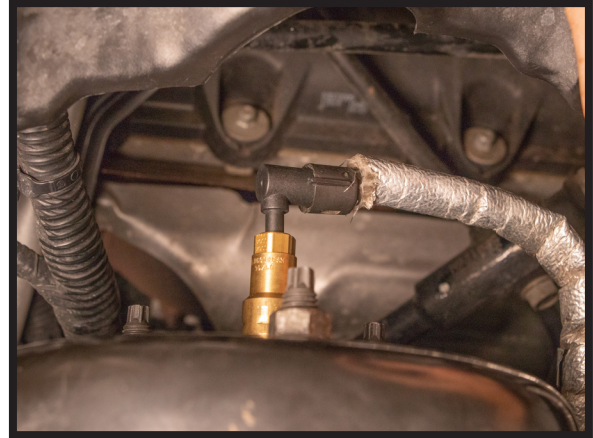


FIGURE 16

17. INSTALL THE UPPER CONTROL ARM NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 17)



FIGURE 17

18. REINSTALL THE STRUT'S BOTTOM NUT AND BOLT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 18)



FIGURE 18

19. REINSTALL AND TIGHTEN THE TWO SWAY BAR END LINK NUTS TO MANUFACTURER'S SPECIFICATIONS. (FIGURES 19, 20)



FIGURE 19



FIGURE 20



20. REINSTALL THE TIE ROD END NUT AND TIGHTEN TO MANUFACTURER'S SPECIFICATIONS. (FIGURE 21)



FIGURE 21

21. RE-INSTALL APPLICABLE FRONT WHEEL.

**NOTE:** REFER TO THE SERVICE MANUAL FOR PROPER INFLATION PROCEDURE.

22. LOWER VEHICLE.  
23. INSTALLATION COMPLETE.