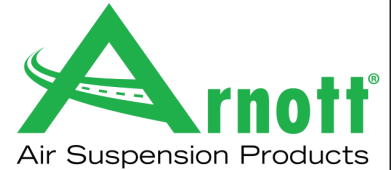


Installation Manual

A-2143
ARNOTT FRONT AIR SPRING
FOR 2003-2006
LINCOLN NAVIGATOR/FORD EXPEDITION



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. (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.

AIR STRUT REMOVAL

1. SET THE STEERING TO STRAIGHT AHEAD.
2. RAISE THE VEHICLE.
3. REMOVE THE FRONT WHEEL. (FIGURE 10-1)



FIGURE 10-1

4. UNPLUG THE ELECTRICAL CONNECTOR FROM THE AIR SPRING'S SOLENOID. (FIGURE 10-2)

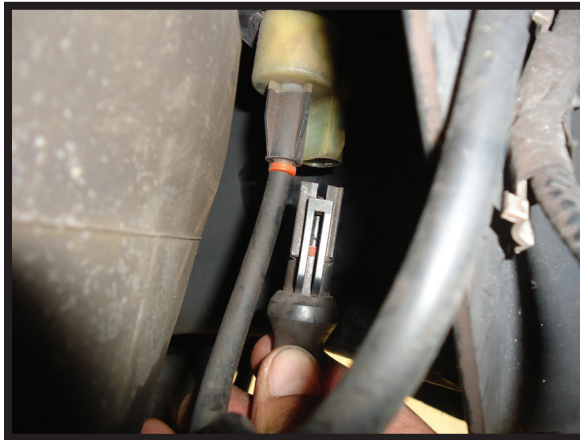


FIGURE 10-2

5. REMOVE THE AIR LINE FROM THE AIR SPRING'S SOLENOID. PUSH THE COLLAR INTO RELEASE AND PULL THE AIR LINE OUT. (FIGURE 10-3)



FIGURE 10-3

6. LOOSEN AND REMOVE THE BALL JOINT NUT TO SEPARATE THE BALL JOINT FROM THE SPINDLE ASSEMBLY. (FIGURE 10-4)



FIGURE 10-4

7. LOOSEN AND REMOVE THE TOP THREE (3) MOUNTING NUTS AND BOTTOM MOUNTING NUT/BOLT. (FIGURE 10-5)

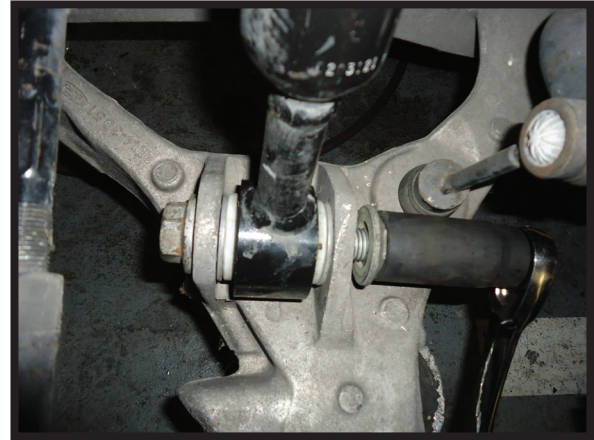


FIGURE 10-5

8. REMOVE THE AIR STRUT FROM VEHICLE. (FIGURE 10-6)



FIGURE 10-6

9. REMOVAL COMPLETE.

AIR SPRING REMOVAL



Note the alignment of the air spring and shock before disassembling.

NOTE: REFER TO THE DIAGRAM ON PAGE 6 FOR AIR SPRING REMOVAL.

1. ROTATE THE AIR STRUT'S SOLENOID COUNTERCLOCKWISE TO THE FIRST STOP, THEN CAREFULLY PULL OUT TO DEPRESSURIZE THE AIR SPRING.
2. LOOSEN THE ROD END NUT AND REMOVE.
3. TURN THE ASSEMBLY UPSIDE DOWN AND USING A FLAT HEAD SCREWDRIVER DEPRESS THE SECURING TABS TO DISLodge THE PISTON FROM ITS POSITION.

4. REMOVE THE SHOCK FROM THE AIR SPRING ASSEMBLY.
5. PULL THE RETAINER PINS HOLDING THE UPPER MOUNT TO THE AIR SPRING TOP AND PRY THE MOUNT OFF. IF A NEW MOUNT WAS PURCHASED YOU MAY DISREGARD THIS STEP.

AIR SPRING INSTALLATION



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

NOTE: REFER TO THE DIAGRAM ON PAGE 6 FOR AIR SPRING INSTALLATION.

1. CLEAN THE REUSED PARTS AND APPLY THE NEW O-RINGS AND LUBRICANT.
2. INSTALL THE NEW AIR SPRING ONTO THE SHOCK ABSORBER.
3. INSTALL EITHER THE REUSED OR NEW TOP MOUNT ONTO THE AIR SPRING AND FIRMLY SEAT THEM TOGETHER.
4. SECURE THE ROD END NUT AND THE RETAINER PINS INTO PLACE ON THE UPPER MOUNT.

AIR STRUT INSTALLATION



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

1. INSTALLATION IS IN REVERSE ORDER OF AIR STRUT REMOVAL.

