

Installation Manual

C-2293
ARNOTT HIGH PERFORMANCE
COIL SPRING CONVERSION KIT
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.

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.

FRONT AIR STRUT REMOVAL

1. Set the steering to straight ahead.
2. Raise the vehicle.
3. Remove the front wheels. (FIGURE 10-1)



FIGURE 10-1

4. Unplug the electrical connector from the air springs solenoid. (FIGURE 10-2)

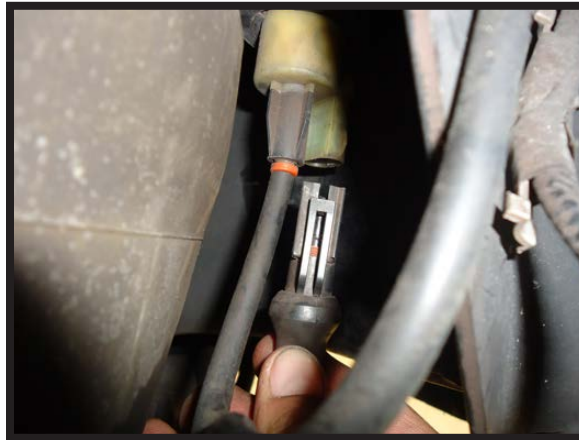


FIGURE 10-2

5. Remove the air line from the air springs solenoid. Push the collar in to release and pull the air line out. (FIGURE 10-3)

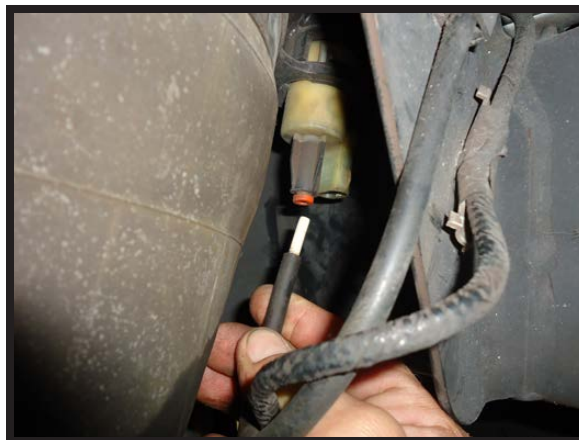


FIGURE 10-3

6. Loosen and remove the ball joint nut to separate the ball joint from the spindle assembly. (FIGURES 10-4, 10-5)



FIGURE 10-4



FIGURE 10-5

7. Loosen and remove the top three (3) mounting nuts and bottom mounting nut/bolt. (FIGURES 10-6, 10-7)



FIGURE 10-6



FIGURE 10-7

8. Remove the air strut from vehicle. (FIGURE 10-8)



FIGURE 10-8

9. Removal complete.

FRONT COIL SPRING INSTALLATION



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

1. Install the coil spring assembly onto the vehicle in reverse order of air strut removal. Secure the air hose and electrical connector in a suitable location.

REAR AIR STRUT REMOVAL

1. Remove rear wheels. (FIGURE 20-1)



FIGURE 20-1

2. Unplug the electrical connector from the air springs solenoid. (FIGURE 20-2)

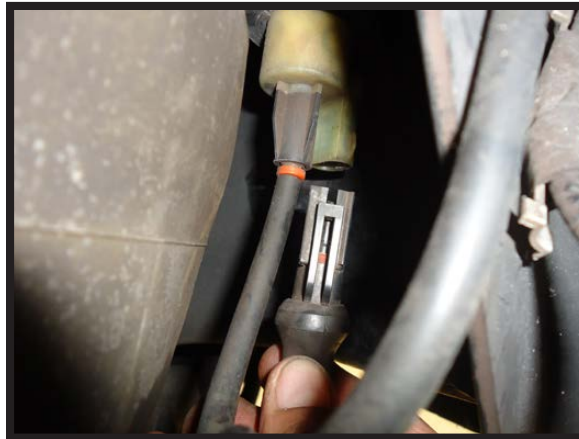


FIGURE 20-2

3. Remove the air line from the air springs solenoid. Push the collar in to release and pull the air line out. (FIGURE 20-3)

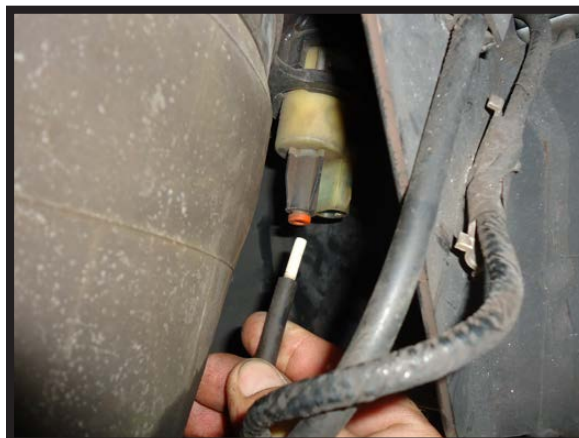


FIGURE 20-3

4. Loosen and remove the top three (3) mounting nuts and the bottom mounting nut/bolt. (FIGURES 20-4, 20-5)



FIGURE 20-4



FIGURE 20-5

5. Remove the air strut from vehicle. (FIGURE 20-6)



FIGURE 20-6

6. Removal complete.

REAR COIL SPRING INSTALLATION



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

1. Install the coil spring assembly onto the vehicle in reverse order of air strut removal. Secure the air hose and electrical connector in a suitable location.

ELECTRONIC BYPASS MODULE INSTALLATION

1. Locate the vehicle's air suspension control module under the left side of the dashboard. (FIGURE A)



FIGURE A

2. Start by locating a suitable ground for the electronic bypass module and secure the black wire. Example: the mounting bracket for the control module. (FIGURE B)



FIGURE B

3. Locate pin# 26 (solid purple wire) on the black plug and cut leaving a suitable length to work with. (FIGURE C)



FIGURE C

4. Strip the end of the wire and crimp the blue wire from the electronic bypass module to the purple wire on the vehicles side of the control modules wiring harness. (FIGURE D)

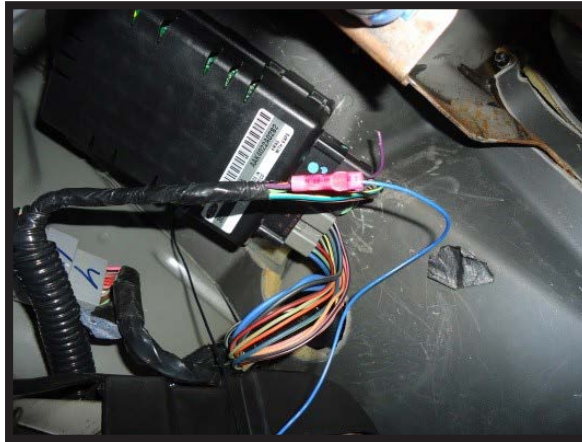


FIGURE D

5. Locate pin# 5 (larger pink wire) of the grey plug. Using the supplied 3-way wire splice, crimp the connector to the wire. (FIGURE E)

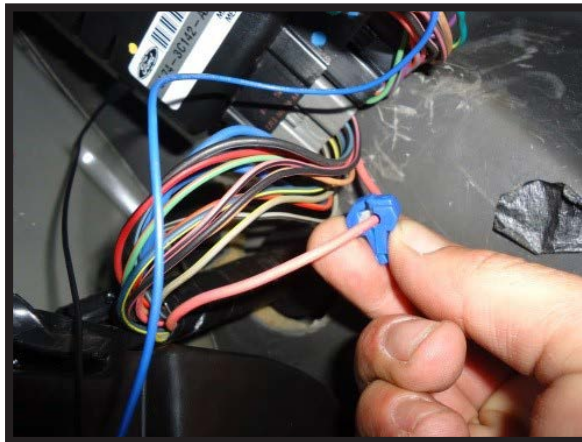


FIGURE E

6. Connect the red wire from the electronic bypass module to the 3-way wire splice. (FIGURE F)

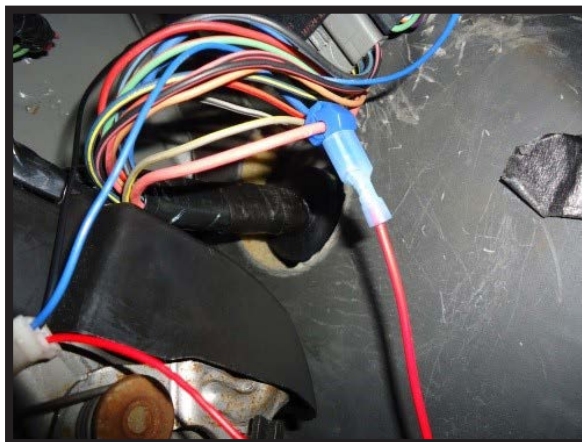


FIGURE F

7. Installation complete.