

Installation Manual

C-2236 ARNOTT COIL SPRING CONVERSION KIT FOR 1993-1998 LINCOLN MARK VIII



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](tel: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.

AIR STRUT REMOVAL

1. Set steering to straight ahead.
2. Turn air suspension switch to the **OFF** position. (Switch is located on the left side of the trunk)
3. Raise the vehicle.
4. Remove front wheels.
5. Unhook the height sensor from the upper control arm.
6. Remove solenoid-retaining clip. (FIGURE A)



FIGURE A

7. Rotate solenoid counterclockwise to the first stop, and then pull down on solenoid. Rotate again and remove solenoid. (FIGURE B)



FIGURE B

8. Remove the shock tower cover. Remove the three (3) nuts retaining air spring. (FIGURE C)



FIGURE D

9. Remove lower nut and bolt to detach the strut from the lower control arm. (FIGURE E)



FIGURE E

10. Unhook upper control arm from the front wheel spindle (remove upper spindle to ball joint bolt and nut. Slightly spread spindle at slot and remove ball joint from upper control arm).
11. Carefully remove old air strut from the vehicle.

FRONT COIL STRUT INSTALLATION



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

1. Insert the three (3) upper studs through the shock tower, loosely install the three (3) nuts.
2. Place lower end of the strut over lower control arm and loosely assemble with nut and bolt.
3. Tighten three (3) upper nuts.
4. Reattach the spindle to the upper control arm.
5. Tighten the lower shock absorber nut.
6. Reattach height sensor to the upper control arm.
7. Replace front wheels.

REAR AIR STRUT REMOVAL

1. Remove rear wheels.
2. Remove solenoid-retaining clip.
3. Rotate solenoid counterclockwise to the first stop, and then pull down on solenoid. Rotate again and remove solenoid.
4. Unhook the height sensor arm (sensor is located on the left side). (FIGURE 20-1)



FIGURE 20-1

5. Hold down the metal locking tab at the top of the air spring. Rotate the spring to disengage top from its mounting location. (FIGURE 20-2)



FIGURE 20-2

6. Remove the air spring from the lower control arm. (FIGURE 20-3)



FIGURE 20-3

7. Disconnect the sway bar end link. (FIGURE 20-4)



FIGURE 20-4

6. Remove the upper rear control arm, bushing bolt and nuts. (FIGURE 20-5)



FIGURE 20-5

7. Remove bolt from the bottom of the rear shock. (FIGURE 20-6)

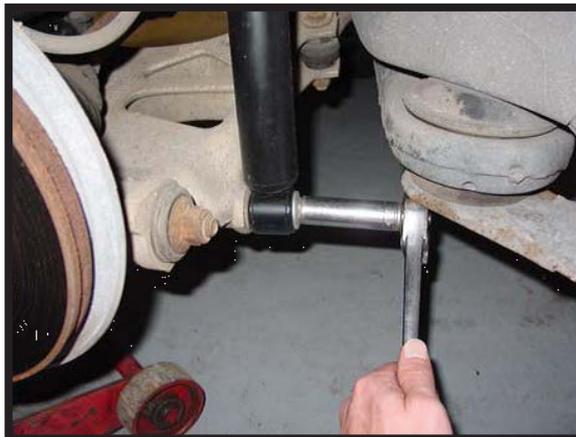


FIGURE 20-6

8. Rear suspension is now ready to install the coil spring. (FIGURE 20-7)



FIGURE 20-7

REAR COIL STRUT INSTALLATION



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

1. Install the bottom spring seat in the lower control arm. (FIGURE 30-1)



FIGURE 30-1

2. Carefully install the new rear coil spring over the bottom spring perch. (FIGURE 30-2)



FIGURE 30-2

3. Spray the top of the coil spring with a lubricant. Push the top of the coil spring in place. Make sure The center dow pin is seated in the correct hole. (FIGURE 30-3)



FIGURE 30-3

4. Place a floor jack under the lower control arm so you can compress the coil spring.
5. Reattach the sway bar end link to the lower control arm.
6. Replace the bolt and nut to the upper rear control arm.
7. Replace the bottom rear shock bolt.
8. Reattach the rear height sensor.
9. Replace the wheels and lower vehicle back onto the ground.

IMMOBILIZING YOUR AIR SUSPENSION SYSTEM

1. Remove kick plate from under the passenger side of the dash. (FIGURE 1A)



FIGURE 1A

2. Locate the air suspension module. The module has a black and gray connector going to it. (FIGURE 1B)



FIGURE 1B

3. Unplug the black connector going to the module. (FIGURE 1C)

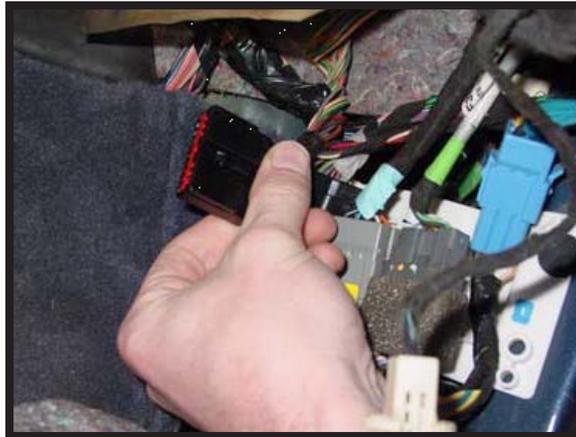


FIGURE 1C



*This will disarm the air suspension system. **Do not cut any of the wires.***