## 90-05 Town Car Coil Spring Conversion

### Air Spring Removal



WARNING: The air suspension system is under pressure (up to 10 bar, or 150 lbf/in2). Do not allow dirt or grease to enter the system. Always wear standard protective hand, ear, and eye protection when servicing the air suspension system.

- 1. Turn the air suspension switch to the OFF position. (Switch is located on the passenger side of the trunk)
- Raise the vehicle on a hoist or with the proper lifting equipment. Suspension must be at full rebound with no load.



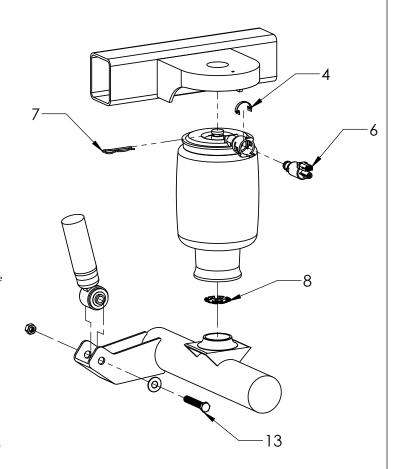
WARNING: Always support the chassis on safety stands. Refer to your vehicle's Owner's Manual for correct lifting instructions.

- Remove both rear tires.
- Remove air spring solenoid retaining clip.
- Remove electrical connector and air line from air spring solenoid valve.
- Rotate solenoid counterclockwise to the first stop, and then carefully pull out to vent the air pressure from the air spring. After air spring is deflated, turn again and completely remove solenoid from air spring.
- With pliers, or a suitable hooked tool, remove the clip that secures the top of the air spring to the chassis. NOTE: To access the clip, go under the wheel arch, between the body of the vehicle and the chassis.
- Remove the piston-to-axle spring seat clip. (Air Spring is held in place with a round retainer clip under the piston cap. To unsnap clip, gently pry between the piston and the axle. Clip will unsnap when pressure is applied)
- Carefully remove air spring from the vehicle.
- 10. Unplug the air spring solenoid power supply, and remove the air hose by pushing down on the orange quick release ring while pulling outward on the hose.

  11. Remove the air spring solenoid.

NOTICE: It's important to unplug and remove the air spring solenoid. Removing the solenoid will prevent the air suspension system from operating after the conversion is installed.

- 12. Seal off hose to prevent dirt or grease from entering system.
- 13. Remove both lower shock bolts. Allow axle to hang free unsupported. This will give you extra clearance for the coil spring.



### **Coil Spring Installation**

Tie the wires and air hose back away from any hot or moving parts. Do not cut the wires. Leave the system whole in case you ever want to reinstall air suspension on the vehicle.

- Install the coil springs onto the rear axle.
- Using a floor jack, raise the rear axle.
- Install the lower shock absorber retaining nut and bolt to the rear axle. Tighten the lower shock absorber retaining nut and bolt to 95 N-m (70 lb-ft).
- Remove the rear axle support.
- Replace tire and wheel assembly. Tighten wheel hub bolt nuts to 115-142 N-m (85-105
- Remove all safety stands and lower vehicle.



WARNING: Make sure to tighten all wheel hub bolt nuts to 115-142 Nm (85-105 lb-ft). Failure to heed to this warning could result in serious bodily and vehicular damage.

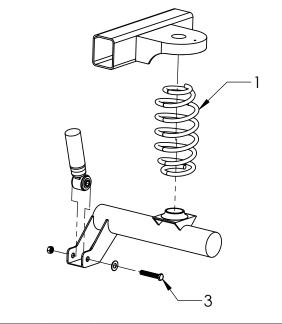
# Disarming the Air Suspension System

### 1990-1994 Town Car

The module is located in the trunk, behind the air suspension switch. Pull back the trunk carpet and remove the 2 nuts that mount the air suspension module. Unplug the air suspension module and bolt it back in place.

### 1995-1997 Town Car

The module is located behind the glove box. Flip the glove box down and locate the air suspension module mounted on the heater core directly in front of you. Unplug the module and close glove box.



				DIMENSIONS ARE IN INCHES		NAME	DATE	
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					CHECKED			
	All Suspension Froducts			TWO PLACE DECIMAL ±	ENG APPR.			1990-2005
PROPRIETARY AND CONFIDENTIAL				THREE PLACE DECIMAL ±	MFG APPR.			LINCOLN TOWNCAR COIL SPRING CONVERSION
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