



1990-2011
LINCOLN TOWN CAR
FORD CROWN VICTORIA
MERCURY GRAND MARQUIS
REAR CONVERSION KITS



INSTALL/REMOVAL INSTRUCTIONS: AIR SUSPENSION CONVERSION KIT

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

Air Suspension Conversion Kit

General Installation Instructions

When servicing any vehicle be sure to follow all safety procedures. First, make sure that when lifting the vehicle that you use an appropriate jack with a proper weight rating. Before going underneath any vehicle, make sure that it is properly supported with sturdy jack stands and on level ground so that the vehicle doesn't fall or slide off of the jack and onto you. As with any automotive repair, make sure you have the appropriate tools to do the job so you don't damage any parts on the vehicle. Safety glasses and mechanic's gloves should also be worn for your protection.

Take care not to exceed the Gross Vehicle Weight Rating (GVWR), or the maximum load recommended by the manufacturer. It is important that all the vehicle owner manuals recommendations are followed for your own safety and to prevent damage to the vehicle.

Once you are ready to disable the ride light, you will need to disconnect the negative battery cable (-) to prevent electrical shock/malfunction.

Disclaimer:

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Installation Instructions

1990 – 2008 Lincoln Town Car

1990 – 2008 Ford Crown Victoria

1990 – 2008 Mercury Grand Marquis

Rear Suspension Kit

Parts included in this kit

- (2) Coil springs
or
- (2) Shocks



- (2) Rear upper spring isolators



Tools needed for installation

- Metric socket set
- Floor jack
- Jack stands
- Metric wrenches
- Screw drivers (Phillips and flat head)
- Wire cutter/stripper/crimping tool
- Level work surface
- Allen wrenches

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TOWN CAR, GRAND MARQUIS, CROWN VICTORIA AIR SPRING REMOVAL

- Turn off the Air Suspension switch in the trunk. (Located in the trunk on the right side.)



- Lift and support the rear of the vehicle. Always use extreme caution when lifting and supporting any vehicle.
- Remove the rear wheels.
- Remove the upper Air Spring retaining clip. (Accessed through the gap between the frame rail and the body.)



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TOWN CAR, GRAND MARQUIS, CROWN VICTORIA AIR SPRING REMOVAL

- Using a pry bar or large screw driver, remove the lower spring seat from the axle assembly.
- Make sure to also remove the retaining clip from the lower spring seat.
- It may be necessary to puncture the Air Bag if all air has not been vented at this point to ease removal.



- Remove the Air Spring solenoid clip. Rotate the solenoid counterclockwise to the first stop.
- To bleed the air from the system pull the solenoid straight out slowly to the second stop.
- After the air is completely bled from the system, rotate the solenoid counterclockwise to the third stop and remove solenoid from the Air Spring.



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Town Car, Grand Marquis, Crown Victoria Air Spring Removal

- Leave the solenoid connected to the air line and the electrical connector. Solenoid must stay with the vehicle.



- Remove the lower shock mounting nuts and pull the shocks away from the axle. This will allow the axle to lower during the installation of the new springs.



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Town Car, Grand Marquis, Crown Victoria Rear Coil Spring Installation

- Install the coil spring into the upper seat with the tighter wound coils on top.
- Place the bottom of the coil spring into the lower spring seat. (Lowering the axle a few inches will help with this step).



- If replacing the shocks as well, remove the old shock and install the new shock. Install the upper mount of the shock first, continue as directed.
- Raise the axle and install the lower shock bolt and nut. Tighten all hardware.
- Secure all loose wiring and air lines, with wire ties, to prevent them from touching the exhaust pipes.
- Reinstall the wheels and lower the vehicle to the ground.



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Troubleshooting Guide

The “Check Air Suspension” light won’t go out.

- Clear any codes from the vehicles computer.
- Verify that the Air Suspension switch is in the “ON” position.
- Ensure that the compressor is on the car and the fuse is good.
- Verify that the solenoids attached to the electrical connector on the car.
- Check to make sure the solenoid is operating properly.
- Verify the correct wire has been cut to disarm the light.
- Disconnect both battery cables from the car and hold them together for ten seconds. After five minutes, reconnect the cables. This will reset the whole system.

The compressor still runs

- Ensure that the solenoids are in good working condition.
- Locate the ride height sensor on the left rear axle. It will have a rubber accordion style cover. Disconnect it from the axle and let it hang in the neutral position.

Noises are heard

- Check the following items:
 - Ensure all bolts are tight.
 - Ensure that the shock bushings and hardware have been assembled properly and are tight.
 - Visually inspect and try to move all suspension components.
 - Air suspension often hides other faulty components.

The springs won’t go in!

- Make sure both wheels are off the ground! The stabilizer end links need to be removed