



AIR DITCHER

AIR TO COIL CONVERSION KIT

03-11 Ford Crown Victoria • 03-11 Lincoln Town Car • 03-11 Mercury Grand Marquis



This product is intended to modify your vehicle and replace the existing air controlled suspension components with a passive coil and shock system. The system has been designed and extensively tested to provide the same ride quality and height as the O.E.M. system.



This conversion kit requires the removal of the air spring, which may be under pressure. Proper procedure must be followed to minimize risk of personal injury and product damage.

General Precautions

When servicing any vehicle be sure to follow all safety procedures.

First, make sure that when lifting the vehicle that you are using the appropriate jack for the weight of the vehicle.

Make sure before going underneath any vehicle 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. There is a list of tools needed included in these instructions.

Safety glasses and mechanic gloves should also be worn for your protection.

Be sure to follow the instructions in the order that they are given. The instructions are in a certain order for a reason and improper installation could lead to damage to your vehicle or the parts. Keep in mind that if you damage the parts during installation you will be responsible for the replacement parts

Included In This Conversion Kit



Minimum Tools Needed For This Installation



Metric Hand Tools (Sockets/Wrenches)



Jack and Jackstands



Screw Drivers (Phillips and Flat Head)



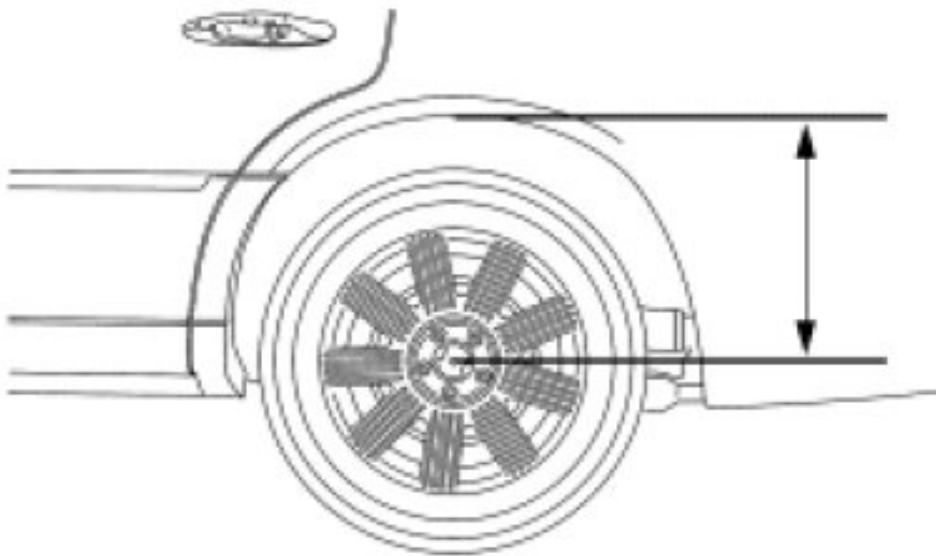
WARNING

The electrical power to the air suspension system must be shut off prior to hoisting, jacking or towing an air suspension vehicle. This can be accomplished by turning off the air suspension switch located in the LH rear quarter trim panel.

CAUTION

Do not remove an air spring under any circumstances when there is pressure in the air spring. Do not remove any components supporting an air spring without either exhausting the air or providing support for the air spring.

For reference during the installation procedure, measure the distance from the lip of the fender to the center of the wheel hub with the vehicle in a **static level ground position**.

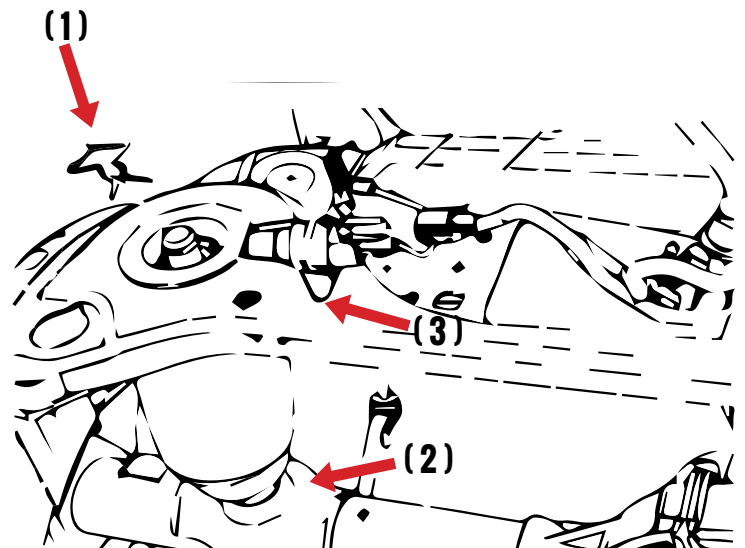


Air Spring Removal

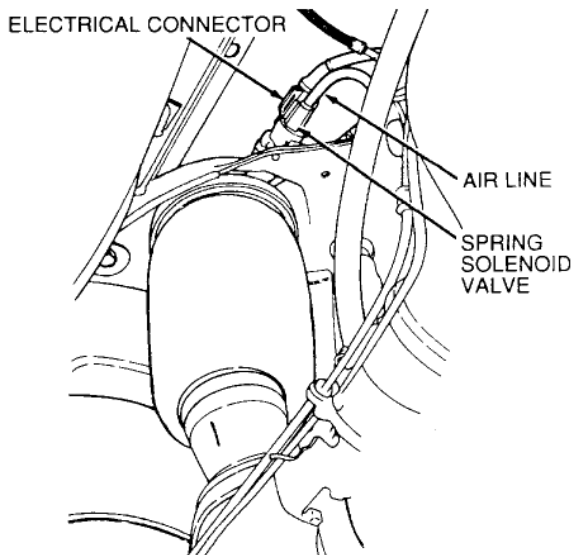
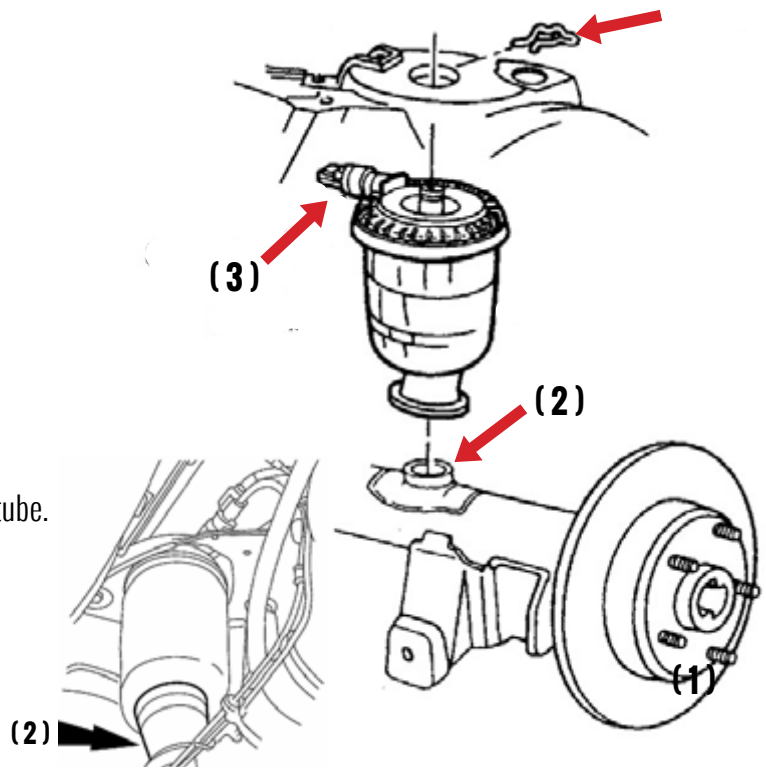
1. Vent the appropriate air spring(s).



It is extremely important that the airbag be vented before being removed from the vehicle. The airbag is under pressure and may cause injury to you if its removed from the vehicle under pressure. To vent, you must use a scan tool to open the vent on the strut, or cut the airbag to release the pressure. Please note if you cut the airbag to remove the pressure, you will not be able to reuse the airbag.

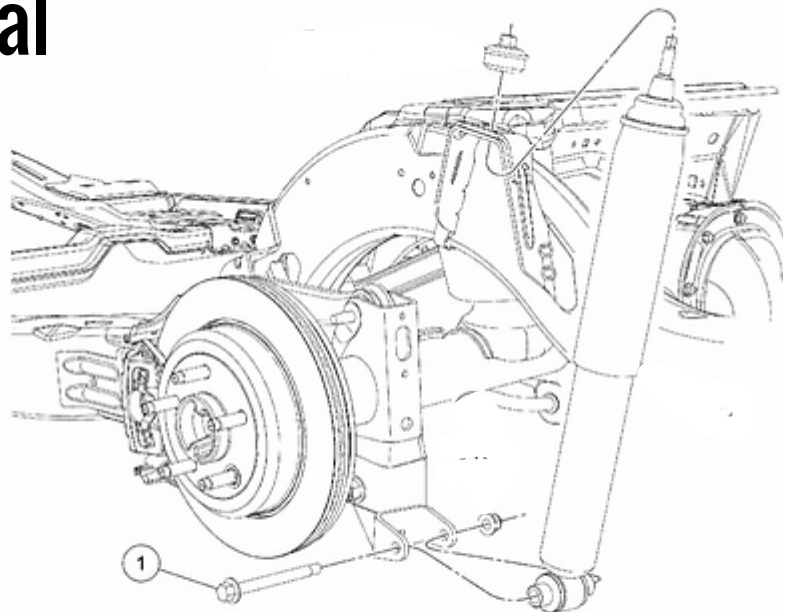


2. Turn the air suspension switch to the OFF position.
3. With the vehicle in **NEUTRAL**, jack up and support with jack stands
4. Remove the air spring retainer. (1)
5. Detach the air spring from the rear axle. (2)
6. Remove the air spring in the following sequence.
7. Disconnect the air spring solenoid electrical connector. (3)
8. Compress the quick connect locking ring and pull out the air tube.
9. Remove the air spring.



Shock Absorber Removal

1. Use a suitable jack or jackstands to support the rear axle.
2. Remove the upper shock nut, washer and insulator assembly.
3. Remove lower shock nut, bolt and the shock absorber.



Installation

1. Disconnect the stabilizer bar from the stabilizer bar links in the following sequence.
2. Rotate the stabilizer bar off the links.
3. Use a suitable jack or jackstands to support the rear axle.
4. Remove the nuts and bolts and disconnect the lateral arms from the frame.

WARNING: Keep all body parts clear of shock absorbers or strut rods. Shock absorbers or struts can extend unassisted. Failure to follow this instruction may result in serious personal injury.

5. Install the spring insulators on the springs.
6. Install the springs and the spring insulators in the vehicle.

Make sure that the springs are correctly seated.

7. Raise the axle using the jack or jackstands.
8. Connect the shock absorbers to the axle and install new bolts and nuts.
9. Make sure that the bolts are installed from the inboard side.
10. Connect the lateral arms to the frame and loosely install new bolts and nuts.

Do not tighten at this time.

11. Using the jack, raise the suspension until the distance between the lip of the fender and the center of the wheel hub is equal to the measurement taken in the removal procedure.
 12. Lower the axle and remove the suitable jack or jackstands.
 13. Connect the stabilizer bar to the stabilizer bar links
- Rotate the stabilizer bar onto the links and install the bushings.

