



For ALL Your Air Suspension Needs!!!

1989-2002

***Mercury Grand Marquis
Ford Crown Victoria
Lincoln Town Car***

45F-30-KIT

Conversion Kit with Rear Shocks





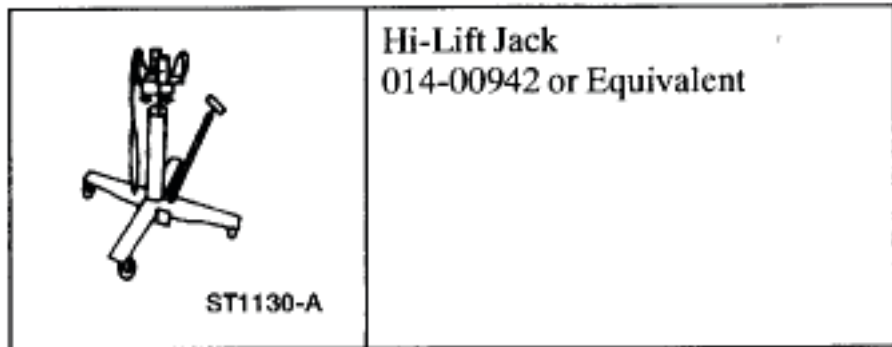
For ALL Your Air Suspension Needs!!!

WARNING:

BEFORE YOU BEGIN THE REMOVAL OR INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY! THE WARRANTY WILL BE VOID IF INSTRUCTIONS ARE NOT FOLLOWED EXACTLY. DO NOT WORK UNDER CAR UNDER A VEHICLE SUPPORTED BY A JACK. ALWAYS SUPPORT THE VEHICLE ON SAFETY STANDS.

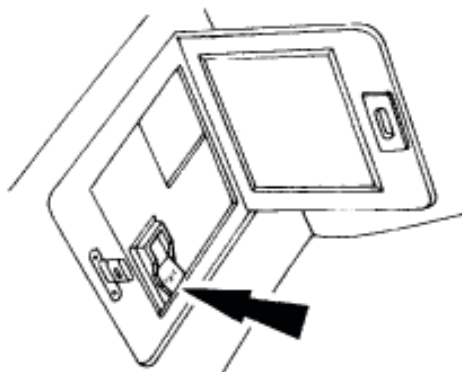
Notes

Rear Suspension



Removal

1. **WARNING: Disconnect battery ground cable. If equipped with air suspension, turn switch OFF. The electrical power to the air suspension system must be turned off prior to hoisting, jacking or towing an air suspension vehicle. Failure to do so can result in unexpected, inflation or deflation of the air springs, which can result in shifting of the vehicle during these operations. WARNING: All vehicles are equipped with gas-pressured shock absorbers which will extend unassisted. Do not apply heat or flame to the shock absorber tube.**

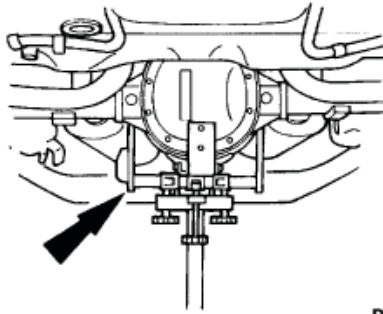


AY0003-B

Turn the air suspension service switch off.

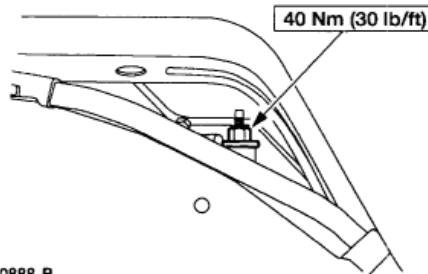
Removal

2. **Raise and support the vehicle.**



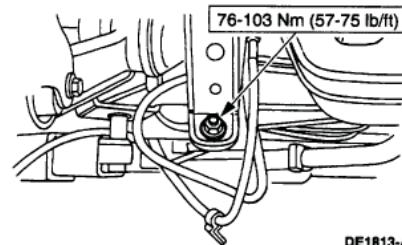
DE1806-A

3. **Use the Hi-Lift Jack to support the rear axle.**
4. **WARNING: Do not remove an air spring under any circumstances when there is air pressure in the air spring. Do not remove any components supporting an air spring without exhausting the air. Release the air pressure from the air springs.**



DF0888-B

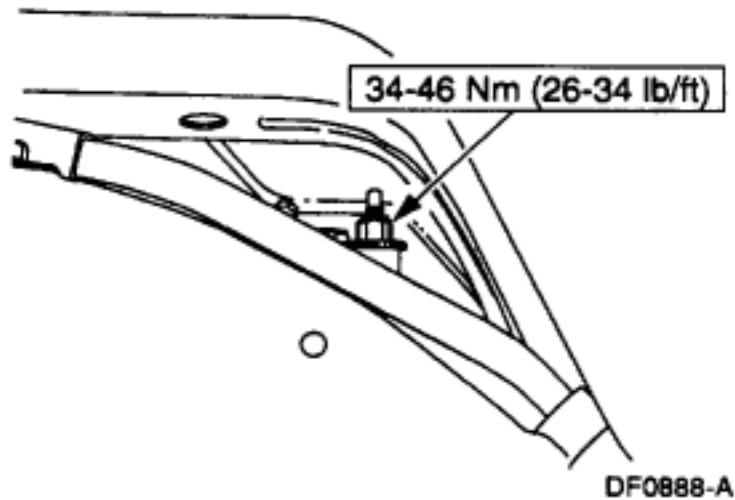
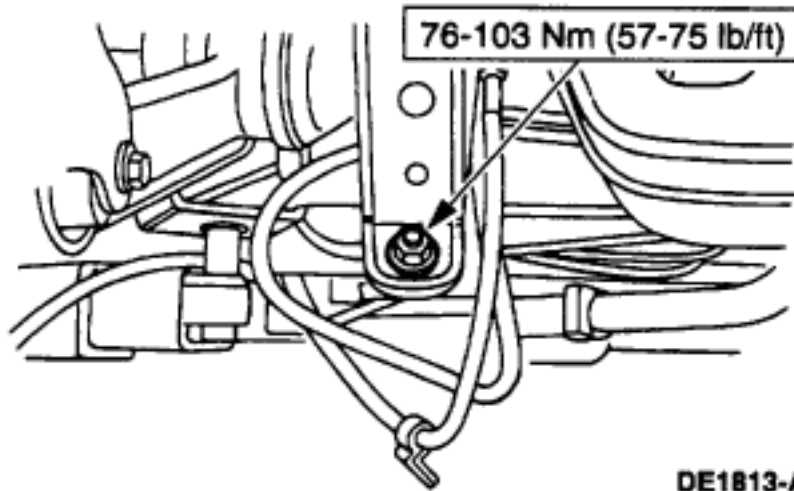
5. **NOTE: Replace shock absorbers individually as required. It is not necessary to replace in pairs. NOTE: To assist in removing the upper attachment on shock absorbers, use a plastic dust tube and place an open end wrench on the hex stamped into the dust tube's metal cap. For shock absorbers with a steel dust tube, simply grasp the tube to prevent stud rotation when loosening the retaining nut. Remove the shock absorber upper retaining nut, washer and insulator from the stud on the upper side of the frame.**



DE1813-A

6. **Remove and discard the self-locking retaining nut. Disconnect the shock absorber lower stud from the mounting bracket on the rear axle assembly.**

Installation



1. Follow the removal procedure in reverse order.



For ALL Your Air Suspension Needs!!!

WARNING:

BEFORE YOU BEGIN THE REMOVAL OR INSTALLATION, READ ALL INSTRUCTIONS THOROUGHLY! THE WARRANTY WILL BE VOID IF INSTRUCTIONS ARE NOT FOLLOWED EXACTLY. DO NOT WORK UNDER CAR UNDER A VEHICLE SUPPORTED BY A JACK. ALWAYS SUPPORT THE VEHICLE ON SAFETY STANDS.

WARNING! Before servicing any vehicle equipped with original equipment air bag suspension, turn off the air suspension switch (in trunk area) and disconnect battery ground cable.

WARNING! Do not attempt to remove any air suspension components when there is pressure in the air spring. Bleed the air spring completely before servicing.

- 1 Raise vehicle and support under frame side rails.
- 2 Axle assembly must be supported with hoist or other adjustable lifting mechanism.
- 3 Disconnect electrical connector at top of spring.
- 4 To purge spring of air, remove solenoid clip and rotate solenoid counter-clockwise to first stop.
- 5 Pull solenoid out to second stop to bleed air from spring.

CAUTION! Do not fully release solenoid until air is completely bled from system.

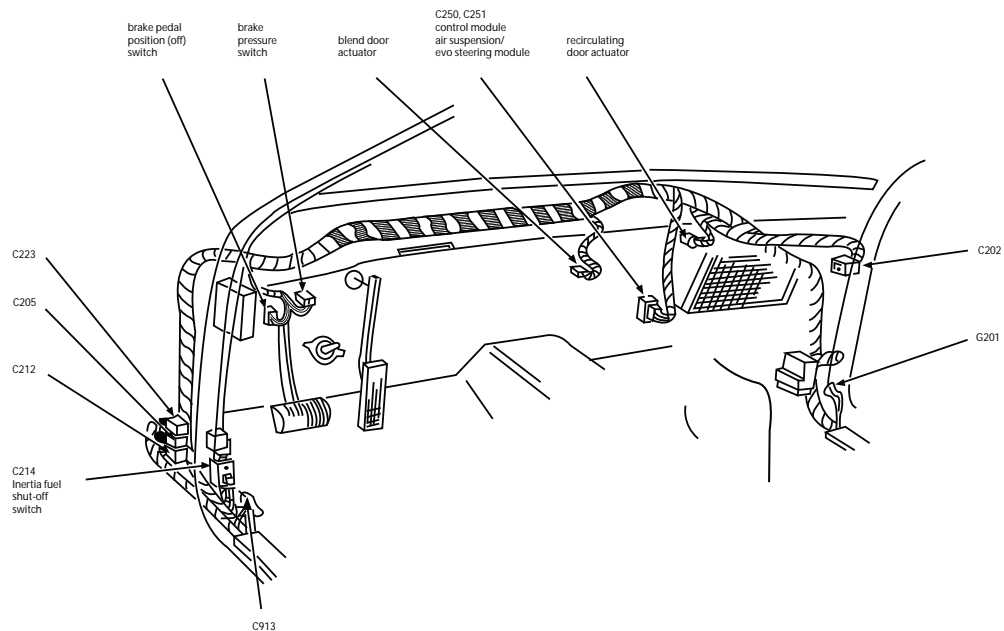
- 6 Rotate solenoid counter-clockwise to third stop and remove from spring. 1998-2002 Leave the Solenoid Connected. this will Remove the Check Air Suspension Error Message.
- 7 Disconnect lower shock mounts and slowly lower axle assembly. (Note: Use caution to insure that brake lines are not bent or stretched. In some cases, it may be necessary to loosen brake line mounting brackets to avoid brake line damage.)
- 8 Remove spring retaining clip from top side of frame spring seat and remove air bag.
- 9 Install springs using supplied rubber insulator pads on both ends of spring with close coils up.
- 10 Raise axle assembly slightly and reconnect shocks. With shocks fully extended, be sure springs are tight in their seats.
- 11 Raise axle assembly until springs support vehicle load. Reconnect any brake line brackets previously removed.

CAUTION! The overload capacity of Variable Rate Springs exceeds the capacity of most vehicles. Do not carry loads in excess of manufacturer's recommended vehicle capacity.

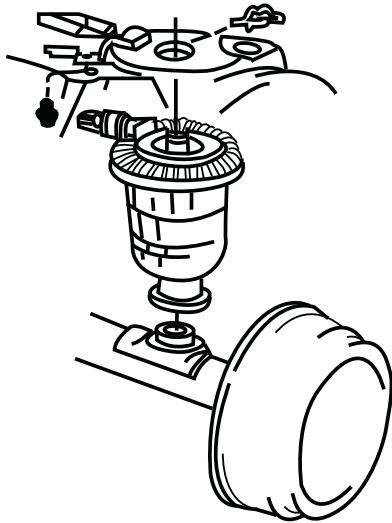


For ALL Your Air Suspension Needs!!!

DISABLING OF AIR SUSPENSION CONTROLS

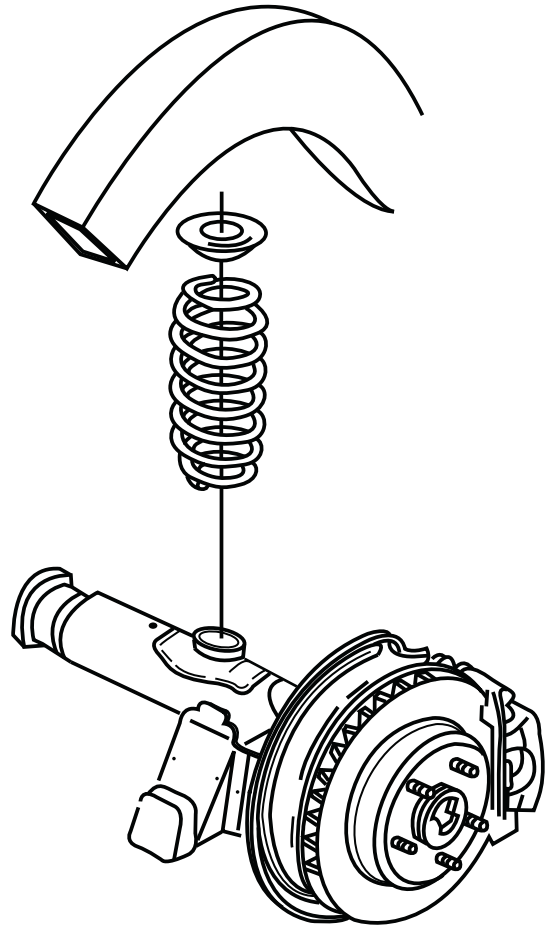


NOTE: The parts in this kit are designed to replace the worn or nonfunctioning original equipment parts in the vehicle as produced by the car factory. These parts are not designed for installation on vehicles where the suspension and/or steering systems have been modified for racing, competition, or any other reason than originally designed by manufacturer.



Step 1:
Remove original Air Spring

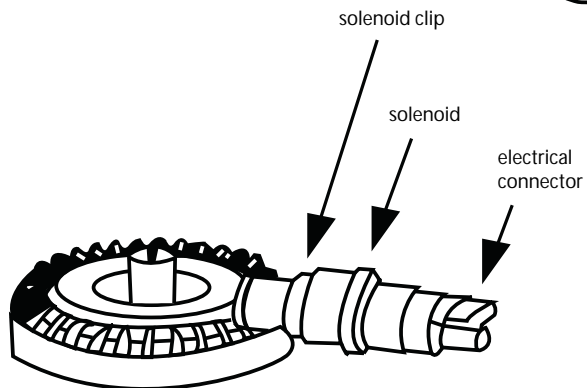
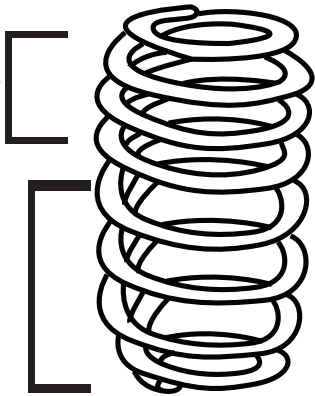
Step 2:
Replace Air Spring with the new coil
(as shown below)



Make sure you put the coil with
the closer gaps looking up

closer
together
up

further
apart
down



solenoid clip

solenoid

electrical
connector