



Installation Instructions

Expedition/Navigator 2007 - 2008 4-Wheel Kit



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.

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Ford Expedition/Lincoln Navigator 4-Wheel Kit 2007 - 2008

Parts Included in This Kit

- **(4) Fully assembled coil over struts**



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
- Spring compressor (if applicable)
- Allen wrenches

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Expedition/Navigator 2007 - 2008 4-Wheel Kit Installation Instructions

Note: Install both kits before disarming the ride light.

Front Removal Instructions

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 under the RH kick panel. Failure to do so may result in unexpected inflation or deflation of the air springs which may result in shifting of the vehicle during these operations.

1. Raise and support the vehicle. Remove front wheels. (See Figures 1 - 2)

Fig. 1



Fig. 2



2. Remove the sway bar nut. (See Figure 3)

Fig. 3



3. Remove upper control arm nut and separate from the wheel knuckle. (See Figures 4 - 5)

Fig. 4



Fig. 5



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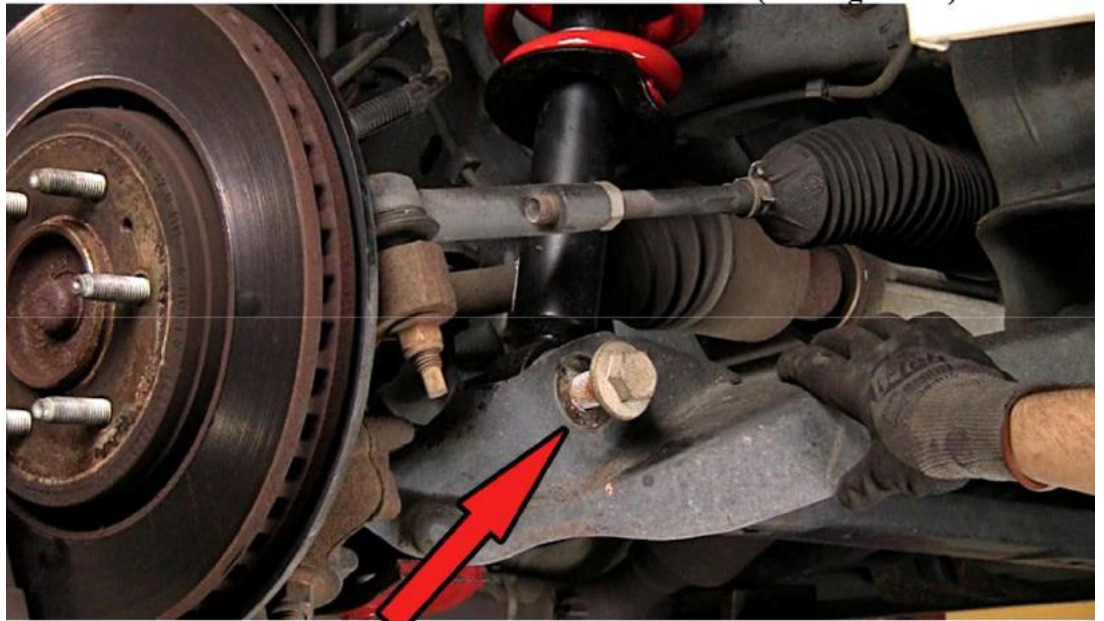
4. Remove upper strut mount bolts. (See Figure 6)

Fig. 6



5. Remove lower strut bolt and remove unit from the vehicle. (See Figure 7)

Fig. 7



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Front Installation Instructions

Read instructions carefully before attempting installation. If you have problems during the install call our Technical Support Line.

- 1. Place the strut assembly into the upper strut mount and install nuts loosely. (See Figure 1)**

Fig. 1



- 2. Install lower part of the strut into position and install and tighten bolt. (See Figure 2)**

Fig. 2



- 3. Raise lower control arm and reattach upper control arm and sway bar and tighten. (See Figures 3 - 4)**

Fig. 3



Fig. 4



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4. Tighten the three upper strut mount nuts. (See Figure 5)

Fig. 5



5. Replace the wheel and lower the vehicle to the ground.

Note: The rear springs may settle during the first couple of weeks of use. It may be necessary to adjust the front height sensors to match the level of the new rear springs. The rear springs can sit a little low if rear shocks are bad. Test the rear shocks by pushing down on the rear of the car. If the rear bounces, replace the shocks as well.

After completing the install leave the switch for the suspension system off. With each drive cycle the information center will read, "suspension system off". Press the re-set button and the message will clear. This step will need to be repeated with each drive cycle.

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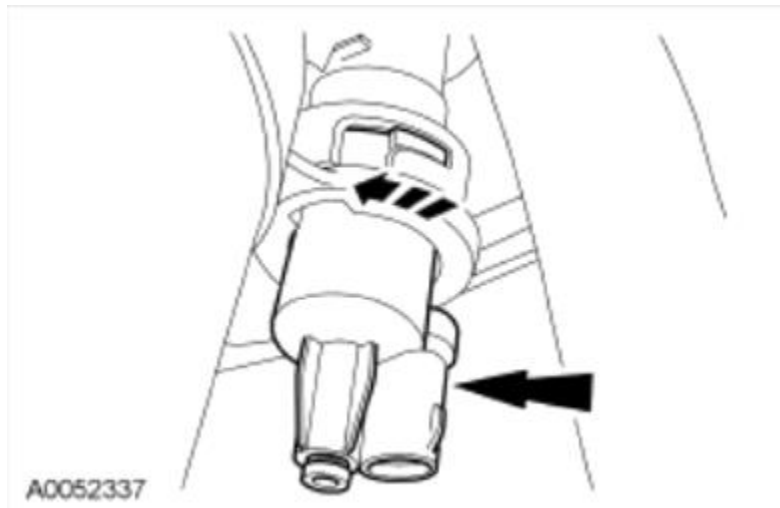
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Expedition/Navigator

To keep the Air Suspension Light from coming on remove the air bag solenoids from all the airbags and reconnect them to the vehicle.

Solenoid Removal Instructions:

- Remove the steel “C”-clip that holds the solenoid valve into the airbag.
- Turn the solenoid counter clockwise to remove, it should then come out. All the air will now escape from the airbag. (See image below)
- Once the solenoid has been removed, simply plug it back into the electrical connector on the vehicle.



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Rear Removal Instructions

1. Raise and support the vehicle and remove both wheel and tire assemblies. (See Figures 1 - 2)

Fig. 1



Fig. 2



Bleed the air from the air suspension system. 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 front, RH kick panel area. Failure to do so may result in unexpected inflation or deflation of the air springs which may result in shifting of the vehicle during these operations.

2. Remove upper toe adjustment and stabilizer link. (See Figure 3)

Fig. 3



3. Remove lower strut bolt. (See Figure 4)

Fig. 4



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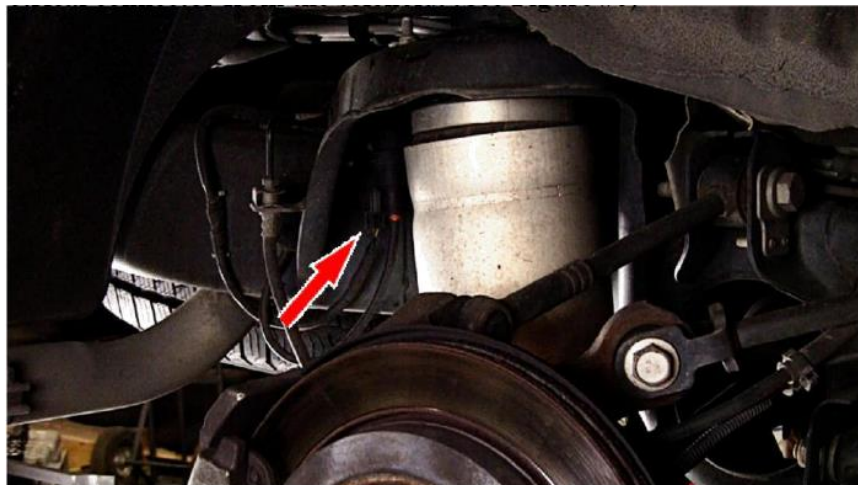
4. Depress orange collet to remove air line from the air spring. (See Figure 5)

Fig. 5



5. Remove electrical connector from the solenoid. (See Figure 6)

Fig. 6



6. Remove three upper strut mount bolts and remove strut. (See Figure 7 - 8)

Fig. 7



Fig. 8



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Rear Installation Instructions

Read the instructions carefully before attempting the installation. Feel free to call our Technical Support Line if you have problems during the install.

1. Install the strut into the mounting area and fasten the top with the three nuts. (See Figure 1)

Fig. 1



2. Install lower strut mount bolt. (See Figure 2 - 3)

Fig. 2



Fig. 3



3. Raise the lower control arm and reattach the toe adjustment, stabilizer link and secure with proper fasteners. (See Figure 4)

Fig. 4



4. Replace the wheel and lower the vehicle to the ground. (See Figure 5)

Fig. 5

