

# Front Strut Installation Instructions

**These instructions cover the following kit:**



**2- Strut Assemblies**

**2- Bypass Resistors**

# 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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## Front Strut Instructions

### Tools needed for installation

- Metric socket set
- Metric wrench set
- Screw drivers(Phillips and flat head)
- Wire cutters/strippers/crimping tool
- Allen wrenches
- Floor jack or automotive lift
- Jack stands

### Cadillac Suspension Warning Light Disarming Check List

- Remove negative cable from battery before installing kit.
- Follow kit installation instructions ensuring all steps have been successfully completed.
- Install electronic components as instructed.
- Ensure height sensors remain connected.
- Reattach battery cable.
- Clear all present & past OBD codes. See owner's manual about clearing codes.  
This process may require a scan tool.
- If installing a rear kit pull the compressor fuse (30 to 50 amp) located in the engine or trunk compartments.

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## Removal Instructions

- Lift and support the vehicle by frame.

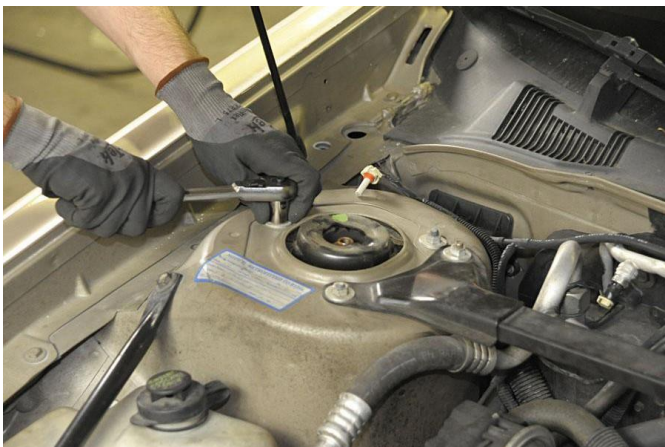


- Remove the wheels



- Remove the three nuts securing the strut to the body.

- Support the knuckle mount



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## Removal Instructions

**Note:** Whenever working near the drive axles, care must be taken to prevent inner tri-pot joints from being overextended. Overextension of the joint could result in separation of internal components which could go undetected and result in failure of the joint. Care should be taken to avoid scratching or cracking the spring coating when handling the front suspension coil spring. Damage can cause premature failure.

- Disconnect the electronic suspension electrical connectors leading to the struts. Depending on the model this may be located on either the top of the strut, or inside the inner fender apron.



- Disconnect link rod at lower control arm for road sensing suspension (if equipped).
- Mark strut in relation to steering knuckle for installation. (On some models the lower strut to the steering knuckle bolt serves as the camber alignment set point.

Mark old strut here. Match new strut as closely as possible.



**Note:** A four wheel alignment is recommended after Installation.

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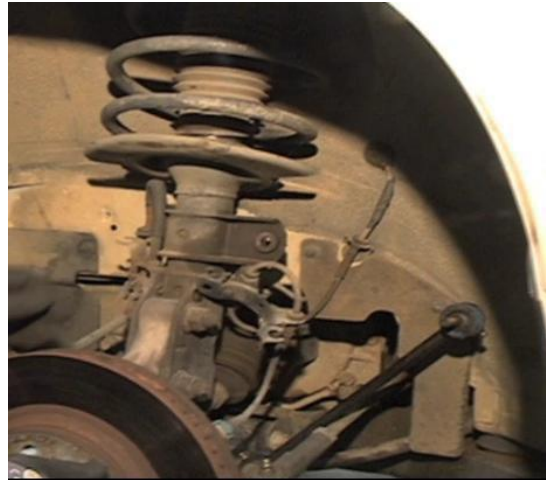
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## Removal Instructions

- Remove brake line bracket and ABS bracket from the strut assembly.



- Remove the stabilizer link from strut (if equipped).



- Make sure that the steering knuckle remains supported to prevent damage to drive shaft joints.



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## Removal Instructions

- Remove the fasteners securing the strut to the knuckle assembly. Support the knuckle assembly to prevent the drive shaft joint from separating.



- While pulling towards you and pushing on the strut, remove the bottom strut mount from the steering knuckle.



- Remove the old strut from the vehicle.



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## Installation Instructions

- Install the new strut by placing the bottom through first to clear the fender.



- Push the mount studs up through the strut tower. Hand start the nuts onto the studs. Do not fully tighten.



- Install and tighten the bolts connecting the strut to the knuckle assembly.
- Completely tighten the upper stud nuts.
- Follow the suspension light disarm instructions on the next page.



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**Note:** Read all instructions carefully before attempting installation.

- The bypass resistors are designed to connect to the factory vehicle harness at each wheel that controlled the strut dampening solenoids.
- The supplied bypass resistor may be equipped with a plug connector which can simply be plugged into the vehicle's harness for installation.
- If the connector does not match the factory harness connector, both connectors may be cut off and the two wires from factory harness connected to the bypass resistor wires using butt connectors.
- The connection is not polarity specific, either wire from the factory harness may be connected to either wire on the bypass resistor.
- Also these resistors are only meant to simulate the dampening solenoids of the factory strut units and do not disable the entire system.
- Check the vehicle's OBD suspension codes to ensure that no other faults exist and that a suspension error message is not present.