

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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Quick Start Guide

Cadillac Eldorado 1994 - 1995

Cadillac Seville 1993

Front

Parts included in this kit

- (2) Fully assembled coil over struts
- (1) Relay



Tools needed for installation

- Metric socket set
- Floor jack
- Jack stands
- Metric wrenches
- Screwdrivers (Phillips and flat head)
- Wire cutter/stripper/crimping tool
- Spring compressor
- Allen wrenches

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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 plugged in.
- 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 compartment.

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Cadillac Eldorado 1994 - 1995

Cadillac Seville 1993

Front Installation Instructions

Front Removal Instructions

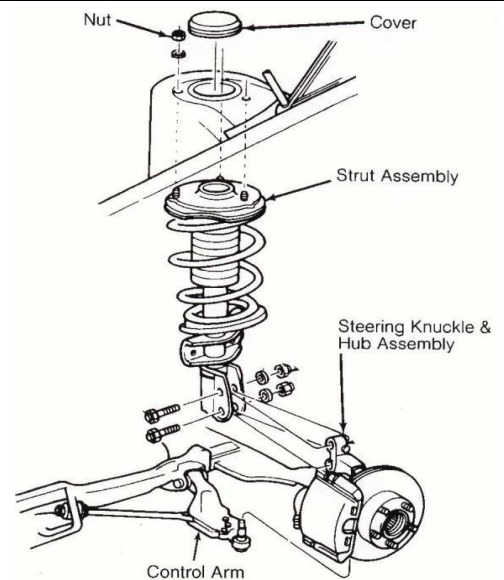
1. Raise and support vehicle, allowing suspension to hang free. Remove wheels.

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.

2. Remove (3) 15mm nuts securing strut mount to body (Do not remove large 24mm nut on top of strut shaft).

3. 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 steering knuckle bolt serves as the Camber alignment set point. (See Fig. 1)

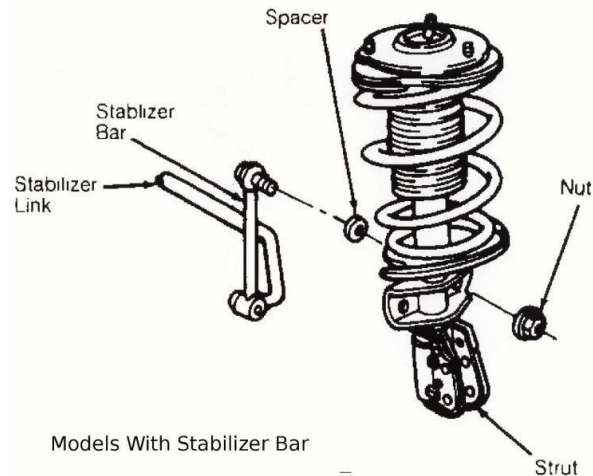
Fig. 1



4. Remove brake line bracket from strut.

5. Remove the stabilizer link from the strut (If equipped). (See Fig. 2)

Fig. 2



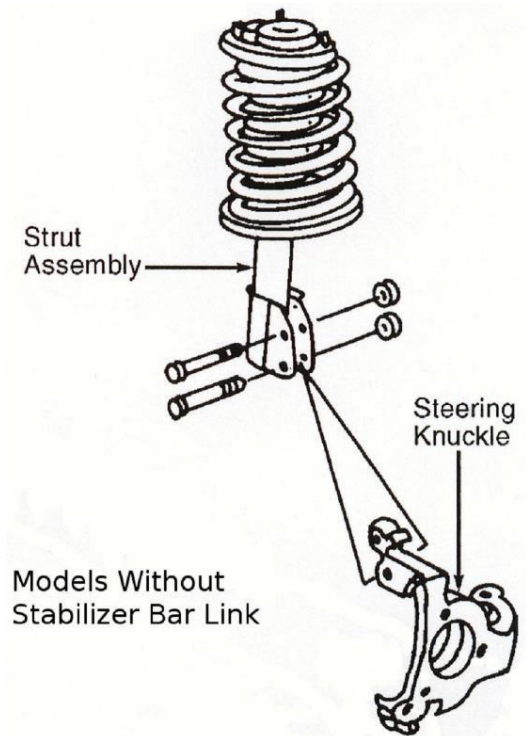
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- 6. Remove nuts and bolts securing strut to the steering knuckle. Support the steering knuckle, with wire, to prevent inner shaft joint separation). (See Fig. 3)**

Fig. 3



- 7. Remove the strut assembly from the vehicle.**

Front Installation Instructions

Read instructions carefully before attempting installation. If there are any problems during the installation, call our Technical Support Line.

- 1. Reassemble and install in reverse order of removal.**
- 2. Tighten all mounting hardware to the manufacturer's torque specifications. Replace any suspect hardware**

Shim Blocks - If the vehicle model has tapered shafts on the stabilizer links, use the included shim block on the strut wing bracket. Install the shim blocks opposite of the stabilizer link arm, inside the channel on the strut, and tighten the link bolt securely.

Read instructions carefully before attempting installation. If you have any problems during the installation, feel free to call our Technical Support Line.

Use the following instructions to disable the suspension warning light

- Disconnect the negative cable from the battery.**
- Locate the vehicle's control module which is located in the trunk behind the trim panel.**
- Before cutting any wires, use the diagrams and instructions below to identify the correct wires and locations that will be used.**
- Install the relay per the instructions below. Make sure that all connections are correct.**
- Reconnect the negative battery terminal and confirm that the suspension warning light is not illuminated.**

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Note: If the suspension light is still present, recheck all connections made at the vehicle's control module. Also, check and clear all OBD diagnostic codes and test drive the vehicle.

If the suspension warning light remains illuminated there is a fault with one of the vehicle's height sensors or possibly the control module itself.

Air Suspension Light Disarm Instructions

Read instructions carefully before attempting installation. If there are any problems during the installation, call our Technical Support Line.

1993 Eldorado and Seville with Speed Sensitive (SSS)

- Locate and cut circuit 1020 (Pink)
- Attach the IPC side of circuit 1020 to pin 4 (87A) of the relay
- Attach the module side of the circuit 1020 to pin 1 (86) of the relay
- Run a ground wire to relay pin 3 (30)
- Run a wire from switched ignition (hot in run) source to relay pin 2 (85)

1994 - 1995 Deville with Speed Suspension (SSS)

On the suspension control module located in the trunk under the front trim panel

- Locate and cut circuit 370 (RED)
- Attach control module circuit 370 to pin 1 (86) of the relay
- Attach the IPC side of circuit 370 to pin 1 (86) of the relay
- Run a ground wire to relay pin 3 (30)
- Run a wire from switched ignition (hot in run) source to relay pin 2 (85)
- Tape any exposed wires or connectors to prevent them from touching any exposed metal.

Connector Locations

Locations

Notes

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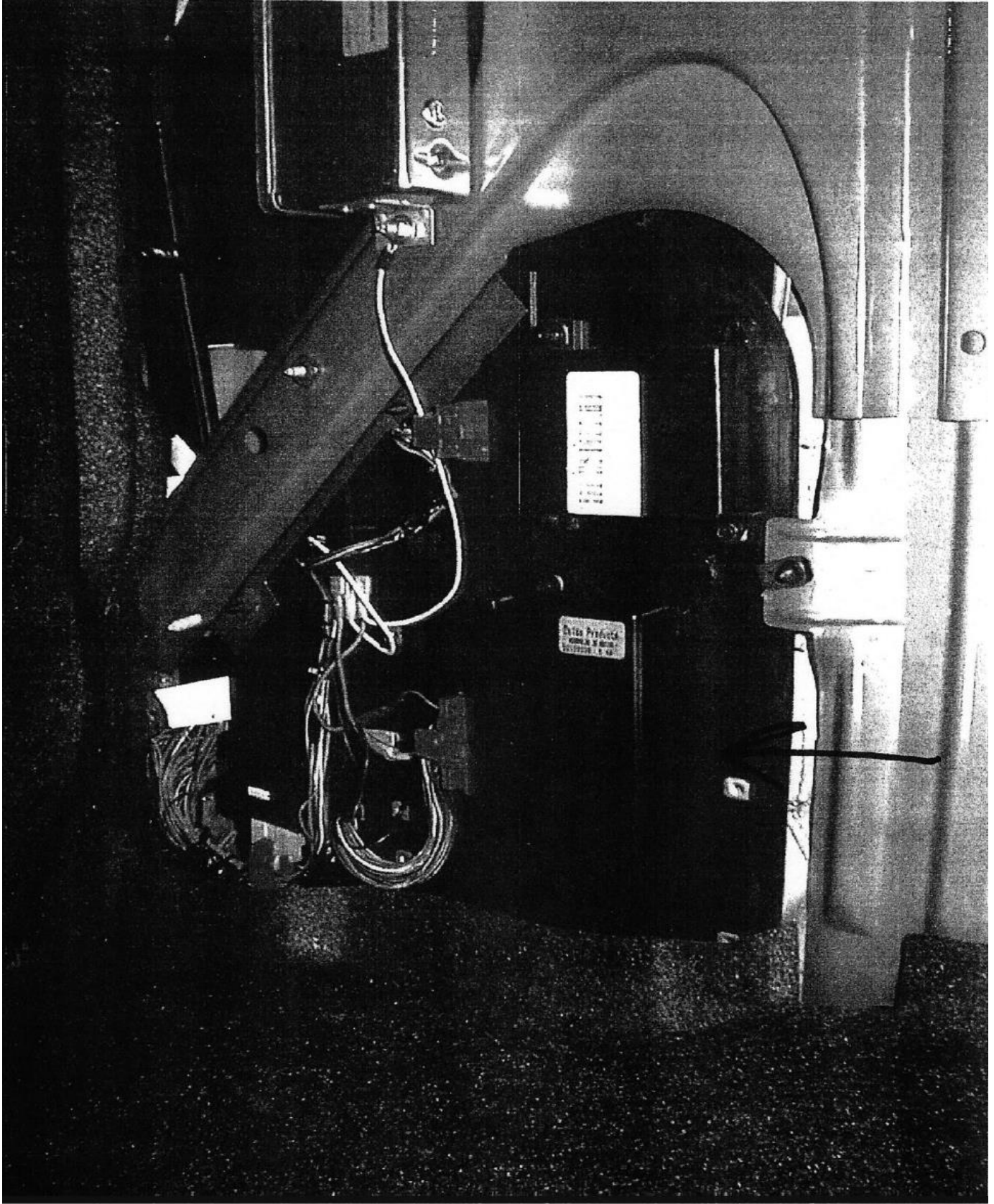
CONTROL MODULE CONNECTOR
(AS VIEWED FROM WIRE SIDE OF HARNESS CONNECTOR)

DESCRIPTION	CKT.	CAV.		CAV.	CKT.	DESCRIPTION
GROUND	1250	D16	D 16	C16	41	IGNITION 3
STEERING SOLENOID	1738	D15	15	C15	370	MESSAGE OUTPUT
LR DRIVE	1010	D14	14	C14	1014	RR DRIVE
LF DRIVE	1448	D13	13	C13	1006	RF DRIVE
		D12	12	C12		
LF GROUND	1005	D11	11	C11		
RF GROUND	1009	D10	10	C10		
LR GROUND	1013	D9	9	C9		
RR GROUND	1017	D8	8	C8		
LATERAL ACCEL.	1308	D7	7	C7	817	SPEED SIGNAL
LF FEEDBACK	1004	D6	6	C6		
RF FEEDBACK	1008	D5	5	C5		
LR FEEDBACK	1012	D4	4	C4		
RR FEEDBACK	1016	D3	3	C3	1490	LIFT / DIVE SIGNAL
DIAGNOSTIC ENABLE	1826	D2	2	C2	1309	LATERAL ACCEL.
STEERING SOLENOID	1703	D1	1	C1		

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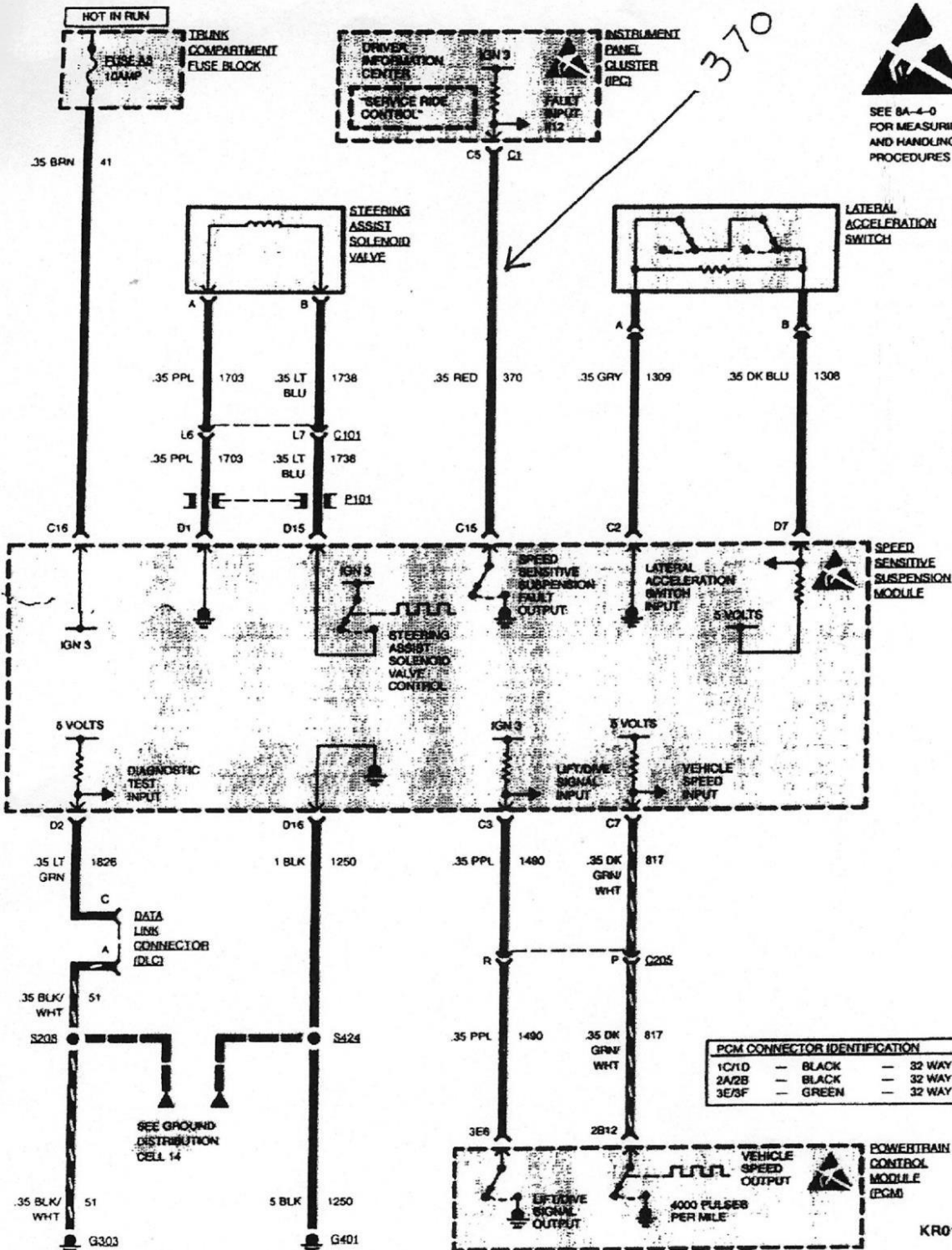
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94 Deville 4.9

ELECTRONIC SUSPENSION (DEVILLE) SPEED SENSITIVE SUSPENSION



1-86
3-30 4-87A 5-87
2-85

PCM CONNECTOR IDENTIFICATION		
1C/1D	BLACK	32 WAY
2A/2B	BLACK	32 WAY
3E/3F	GREEN	32 WAY

KR0158A43

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Cadillac Rear Installation Instructions

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Parts included in this kit

- 2 Rear Coil assist shocks and 2 Electronic by pass units
- 2 Rear Shocks, 2 Rear Springs, and Electronic by pass units
- 2 Rear Coil assist Shocks, 2 Rear Springs, 2 Electronic by pass units

Tools needed for installation

- Metric socket set
- Support the vehicle
- Floor jack
- Jack stands
- Metric wrenches
- Wire cutter/stripper/crimping tool
- Screwdrivers (Phillips and flat head)
- Spring compressor
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Cadillac Rear Installation Instructions

Rear Shock Removal Instructions

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

Fig. 1

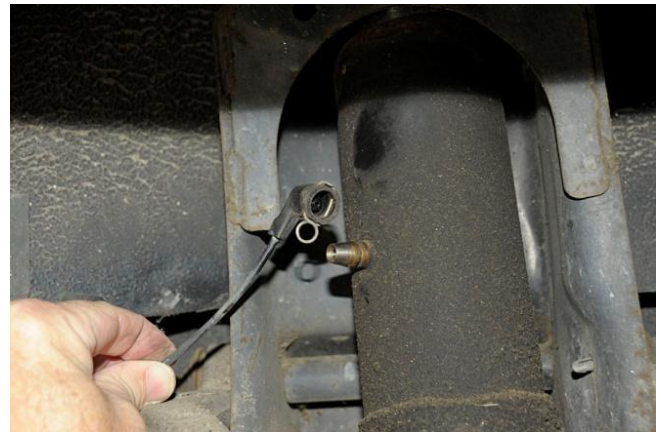


Fig. 2



- Remove air tube from the shock.
(See Fig. 3)

Fig. 3



- Remove two bolts securing the shock to control arm.

Note: Some models may have only one bolt securing the bottom of the shock.
(See Fig. 4)

Fig. 4



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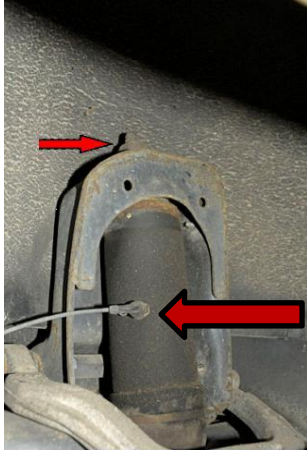
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Cadillac Rear Installation Instructions

- Remove upper shock nut and remove the shock from the vehicle. (See Figures 5 - 6)

Fig. 5



Remove the air line to the shock.

Fig. 6



Fig. 7

- Keep the old factory washer from the top of the shock as shown in Fig. 7. You will reuse this shock washer.



- Remove the shock from the vehicle. Make a note of the shock bushings prior to removing them from the old shock.

Save and reuse this washer



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Cadillac Rear Installation Instructions Rear Coil Spring Removal Instructions

- Disconnect the rear stabilizer bar from the knuckle. (See Figures 1 - 2)

Fig. 1

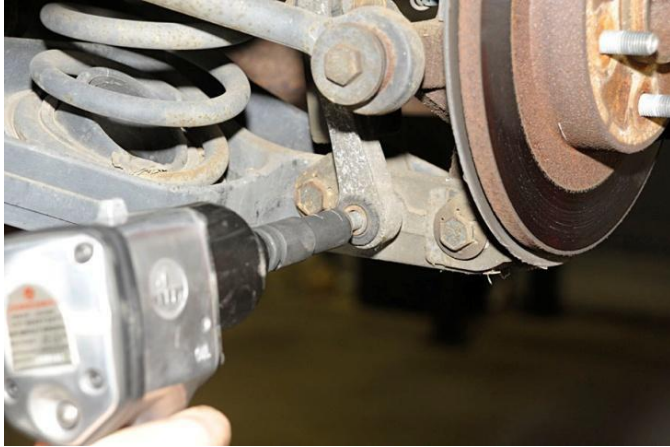
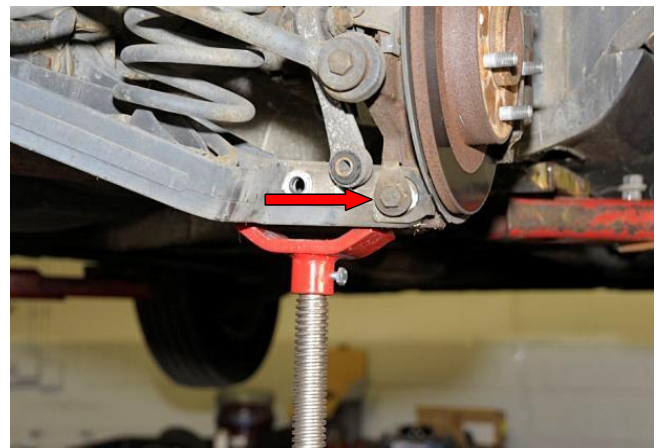


Fig. 2



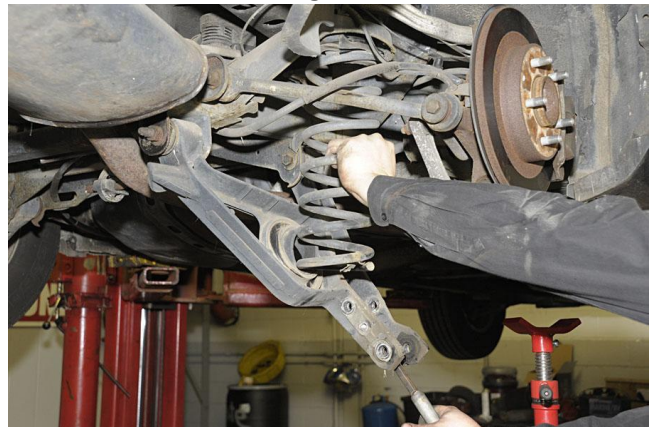
- Place the jack under the control arm to relieve tension from pivot bolts. Remove the rear control arm bolts and nut. (See Fig. 3)

Fig. 3



- Slowly lower the jack until the bolt can be removed. Remove the coil spring. (See Fig. 4)

Fig. 4



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Cadillac Rear Installation Instructions Rear Coil Spring Installation Instructions

Read the instructions carefully before attempting the installation. Call our Technical Support Line with any problems during the install.

Important: To ensure proper orientation of the spring, rest the spring, without insulators, on a flat surface. The spring will stand up straight when resting on its top end, but will lean or tip when resting on its bottom end.

- Install with the flat side up, and the pigtail at the lowest point on control arm. On the passenger side, the pigtail will point to the rear of the vehicle. On the driver's side, the pigtail will point to the front of the vehicle.



- Slowly jack up the rear control arm and replace bolt.
- Reconnect the rear stabilizer bar and lower shock mount.
- Remove the jack.



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Cadillac Rear Installation Instructions Cadillac Rear Shock Washer Set-up Steps

Step 1: Top Shock Bushing



Bottom Shock Bushing



Step 2: Install lower bushing kit.



Step 3: Install in vehicle.



Step 4: Reuse original shock washer with new top bushing.



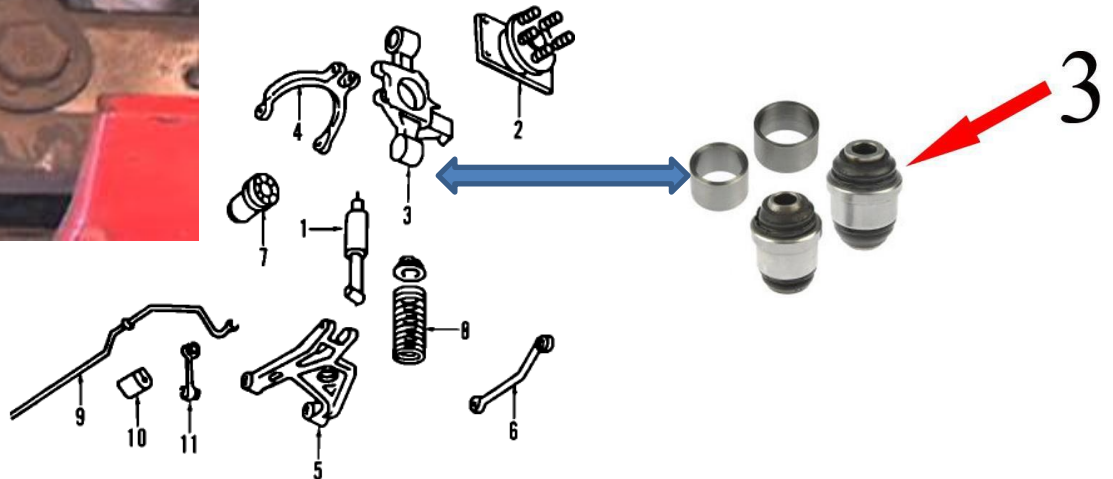
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Cadillac Rear Installation Instructions

- Install and tighten the lower shock bolt.



Note: The rear springs may settle some 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 the rear shocks are bad. Test the rear shocks by pushing down on the rear of the car. If the rear bounces, then replace the shocks.