

# 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.

Dorman are proud to offer a high quality product at the industries most competitive pricing!

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## **GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Kit Installation Instructions**

### **Parts Included:**

- (2) Coil springs
- (2) Shocks



### **Tools needed for installation**

- Metric socket set
- Floor jack
- Jack stands
- Metric wrenches
- Screwdrivers (Phillips and flat head)
- Wire cutter/stripper/crimping tool
- Level work surface

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## **GMC Envoy 2002 – 2006**

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# Chevrolet Trailblazer EXT Isuzu Ascender Rear Kit Installation Instructions Rear Removal Instructions



**Caution:** A sudden release of pressure may cause personal injury or damage to the vehicle. The air suspension system is under pressure until the air supply lines are disconnected.

Use the following precautions when servicing the air suspension system: Wear gloves, ear protection, and eye protection. Wrap a clean cloth around the air supply lines.

- Raise vehicle and remove wheels.



- Support the rear axle.



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## GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Removal Instructions

### Air Spring Removal

- With the vehicle lifted and the rear axle supported, separate the ride height sensor from the axle.



**Important:** There is a raised feature on the outer rim of the Air Spring top plate that denotes the anti-rotation peg position.

- Anti-rotation peg.
- Press down on the anti-rotation peg, and turn Air Spring counterclockwise to remove from upper spring seat.



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## GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Removal Instructions

- Lift up Air Spring on its side as shown.



- Cut the air line from the Air Spring.



- Remove the Air Spring from the vehicle.

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## GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Removal Instructions

- Remove the bottom rear shock bolt, using an 18 mm wrench and socket.



- Remove the upper shock bolt, using an 18 mm socket.
  - Remove the shock.
- (If only replacing the springs skip this step.)



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- Install the upper shock bolt of the new shock.  
Tighten to factory specs.

(Skip if only replacing the springs)

- Remove upper spring isolator before installing spring.



- Lower the axle to allow new spring install.



- Pull down on axle while installing the spring.

**Note:** Be sure to install coil spring with tight wound coils upwards.



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## GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Installation Instructions

- Raise the axle and install the lower shock nut and bolt. Tighten to factory specifications.
- Using a pick tool, place the tool through the centering hole in the ride height sensor.
- Swing the sensor arm up until it meets the fender well push pin.
- Remove the push pin.
- Install small wire tie to hold sensor arm in place.
- Reinstall push pin.



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## GMC Envoy 2002 – 2006 Chevrolet Trailblazer EXT Isuzu Ascender Rear Installation Instructions

- When completed, the inflator switch can be kept in working order by folding over the two air lines and clamping them together. This will prevent the air compressor from overheating when in use.
- To disable the compressor from operating, remove the #1 fuse in the engine fuse box.



Fuse Block – Underhood (5.3L), Label

- ECAS fuse

