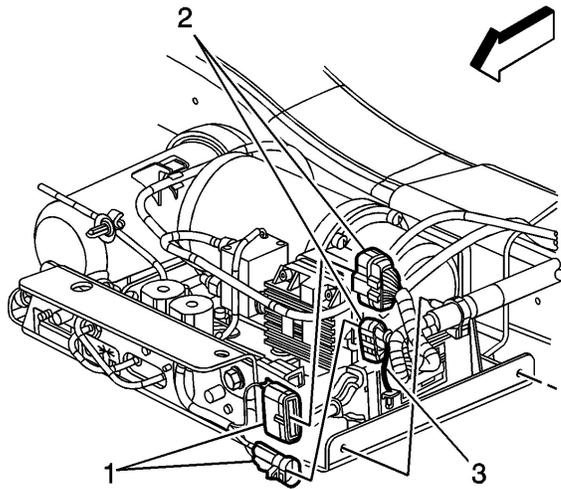


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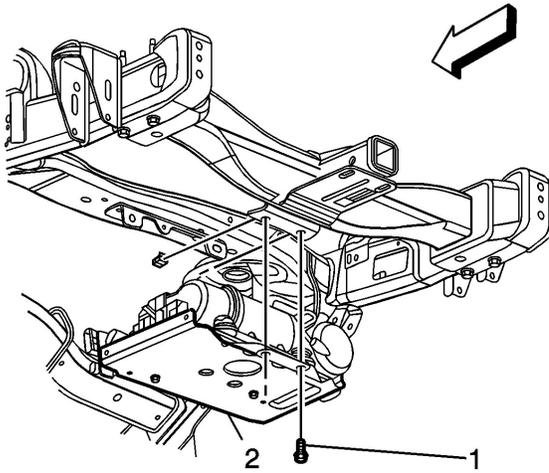
Compressor Assembly Automatic Level Control Air Replacement (Dual Compressors)

Removal Procedure

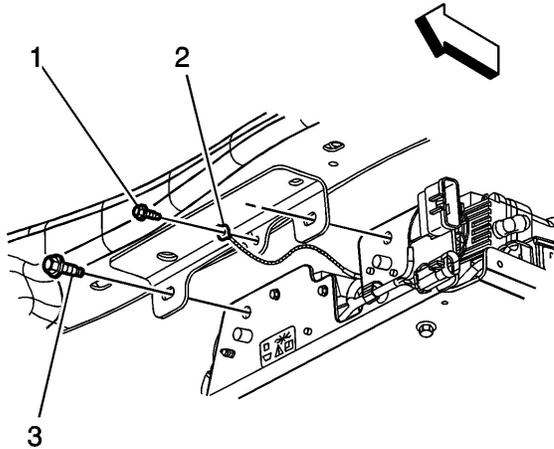
Caution: Do NOT remove an air supply pipe in an attempt to depressurize the air suspension. Always follow the Air Suspension Depressurization Procedure in Air Suspension. Failure to follow this procedure may cause personal injury or damage to the vehicle.



- Depressurize the air suspension system. Refer to [Air Suspension Depressurization](#) .
- Raise and support the vehicle. Refer to [Lifting and Jacking the Vehicle](#) .
- Support the compressor assembly with a suitable stand.
- Remove the connector position assurance (CPA) retainer (3).
- Disconnect the air inflator switch and air spring compressor electrical connectors (1, 2).



- Remove the rear compressor mounting bolts (1).

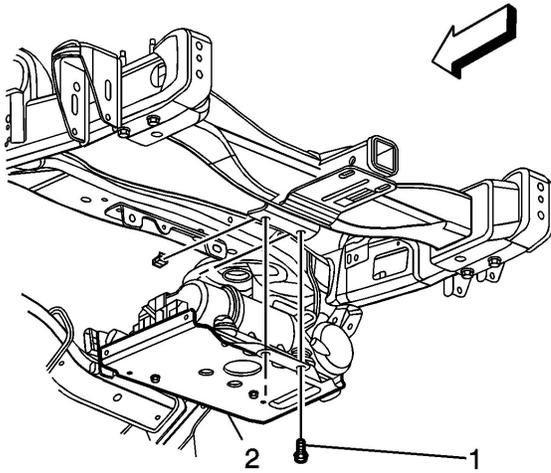


- Remove the ground strap bolt (1).
- Remove the ground strap (2) from the frame.
- Remove the front compressor mounting bolt (3).

Important: Note the port location of the air lines for reassembly.

- Disconnect the air lines. Refer to [Air Suspension Air Line Replacement](#).
- Remove the compressor assembly from the vehicle.

Installation Procedure



- Install the compressor assembly to the vehicle.

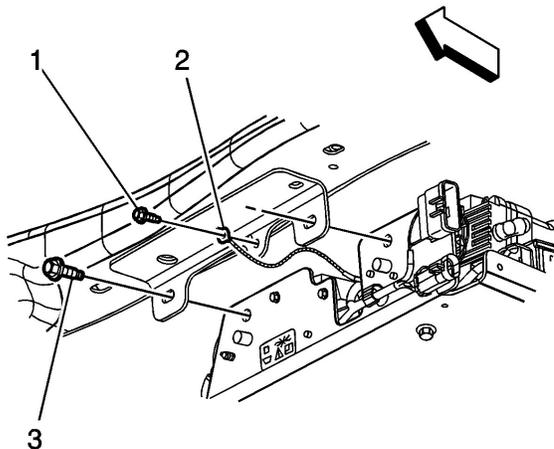
Important: Check the air supply lines for deep scores or cuts. If the air supply lines are damaged the lines must be replaced.

Notice: Refer to [Fastener Notice](#) in the Preface section.

- Install the air lines.
- Install the rear air spring compressor mounting bolts (1).

Tighten

Tighten the bolts to 50 N·m (37 lb ft).



- Install the front air spring compressor mounting bolt (3).

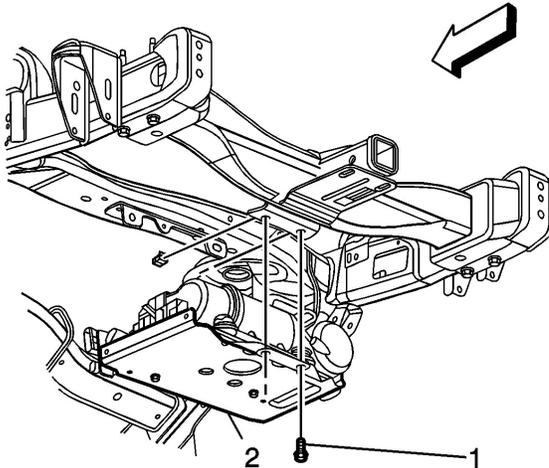
Tighten

Tighten the bolts to 50 N·m (37 lb ft).

- Install the ground strap (3) to the frame.
- Install the ground strap bolt (1).

Tighten

Tighten bolt to 6 N·m (53 lb in).



- Connect the air spring compressor and air inflator switch electrical connectors (1, 2).
- Install the CPA retainer (3).
- Remove the support from the compressor.

Important: If the rear axle was allowed to hang unsupported, lower the vehicle far enough to allow the air spring to be manually engaged to the support on the axle tube with minimal distortion of the air spring bladder. Ensure that the air spring is fully engaged to the axle support.

- Pressurize the air springs. Refer to [Air Suspension Pressurization](#) .
- Lower the vehicle.
- Start the vehicle and run for approximately 2 minutes to ensure that the air spring leveling system is functioning properly.
- Verify the D height. Refer to [Trim Height Specifications](#) .
- Re-calibrate the trim height. Refer to [Suspension Position Calibration](#) .
- Check for leaks. If a leak is found at the air supply line connections replace the air supply lines. Refer to [Air Suspension Air Line Replacement](#) .

Suspension Position Calibration

This procedure noted below should be performed after compressor assembly, air suspension control module, or suspension position sensor replacement. Uneven suspension position can also be corrected by performing this procedure.

Tools Required

[CH-47816](#) Suspension Position Calibration Blocks

Important: Before proceeding with the steps below, ensure:

- There are no stored diagnostic trouble codes stored in the ASCM.
 - The vehicle is on level ground.
 - There are no occupants in the vehicle.
 - The tire pressures are at the recommended kPa/psi.
 - All vehicle doors are closed.
-
- Raise the vehicle on a hoist.
 - Install the [CH-47816](#) on to the LR and RR jounce bumper mounting cups.
 - Lower the vehicle off the hoist.
 - Depressurize the air suspension system in order to allow the full rear weight of the vehicle to rest on the blocks and rear axle. Refer to [Air Suspension Depressurization](#) .
 - Turn ON the ignition, with the engine OFF.
 - Install a scan tool.
 - With the scan tool select Chassis.
 - Select Air Suspension.
 - Select Special Functions.
 - Select Trim Height Calibration and press the Enter key. The scan tool will flash Calibration In Progress, then display Calibration Complete.
 - Press the Exit key.
 - Pressurize the air suspension system until the rear weight of the vehicle is lifted of the blocks. Refer to [Air Suspension Pressurization](#) .
 - Remove the [CH-47816](#) .
 - Ensure all vehicle doors are closed. Cycle the ignition switch OFF then start and run the engine for 2 minutes to allow the vehicle to level at the designed ride height.
 - After ensuring all vehicles doors are closed, use the scan tool to raise and lower the vehicle by commanding the extended ride height switch special function each time to verify the air suspension system is functioning properly.

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Compressor Air Suspension Isolator Nuts	25 N·m	18 lb ft
Compressor Air Suspension Mounting Nuts	25 N·m	18 lb ft
Control Module Air Suspension Compressor Retaining Screw	1.4 N·m	12 lb in
Dryer Air Suspension Compressor Mounting Nuts	12 N·m	106 lb in
Electronic Suspension Switch Screws	12 N·m	106 lb in
Ground Wire Bolt	6 N·m	53 lb in
Plate Mounting Air Suspension Compressor to Frame Bolts	50 N·m	37 lb ft
Sensor Air Suspension Leveling to Frame Mounting Bolts	8.5 N·m	75 lb in
Sensor Air Suspension Leveling to Upper Control Arm Bracket Bolt	17 N·m	13 lb ft
Support Bolt	22 N·m	16 lb ft
Valve Block Air Suspension Compressor Mounting Bolts	5.0 N·m	44 lb in