Air Suspension Depressurization

To depressurize the Air Suspension System install the scan tool with key in the on position. Go to the special functions menu of the Air Suspension section and follow the on screen directions. The suspension will deflate the air springs until the suspension is on the jounce bumpers.

Air Suspension Pressurization

Important: Any time the air suspension system has been depressurized, it is necessary to follow the steps below to avoid air spring damage upon lowering the vehicle and adding weight to the rear suspension components.

1. While the vehicle is raised, ensure that the lower end of the air springs are completely engaged in the spring supports on the axle housing.
2. Lower the vehicle but do not allow the vehicles tires to contact the ground.
3. Turn the ignition ON, with the engine OFF.
4. Install a scan tool.
5. With the scan tool in hand, raise the vehicle.
6. With the scan tool select Special Functions.
7. Select Compressor Test.
8. Press the ON soft key and visually observe the springs as their air pressures inflate.
9. When the air spring inflation pressures have reached a pressure where there are no visible wrinkles, or folds in the air springs, press the OFF soft key. This function will also stop after 90 seconds.
10. Press the Exit key.
11. Lower the vehicle.
12. Cycle the ignition OFF, then back ON, with the engine ON to allow the air suspension system to regain the desired rear suspension position.

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

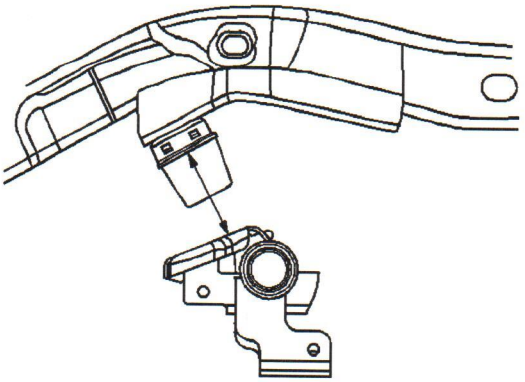
Important: Before proceeding with the steps below, ensure:

- 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.

1. Raise the vehicle on a hoist.
2. Install the CH-47816 on to the LR and RR jounce bumper mounting cups.
3. Lower the vehicle off the hoist.
4. 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 .
5. Turn ON the ignition, with the engine OFF.
6. Install a scan tool.
7. With the scan tool select Chassis.
8. Select Air Suspension.
9. Select Special Functions.
10. Select Trim Height Calibration and press the Enter key. The scan tool will flash Calibration In Progress, then display Calibration Complete.
11. Press the Exit key.
12. Pressurize the air suspension system until the rear weight of the vehicle is lifted of the blocks. Refer to Air Suspension Pressurization .
13. Remove the CH-47816 .
14. 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.
15. 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.

Trim Height Calibration Procedure

1. Depressurize the air suspension system to lower rear of vehicle. Refer to Air Suspension Depressurization Procedure .
2. Raise and support rear of vehicle at D height. 132 mm (5.2 in).



3. The D height is obtained by measuring the distance between the edge of the jounce cup along the jounce bumper center line and the jounce pad on the rear axle.
4. With the scan tool perform the calibrate trim height procedure in air suspension special functions.
5. Check scan tool data list for trim height learned. Typical data value will be YES.
6. If trim height was not accepted the typical data value will be NO and DTC C0569 will set.

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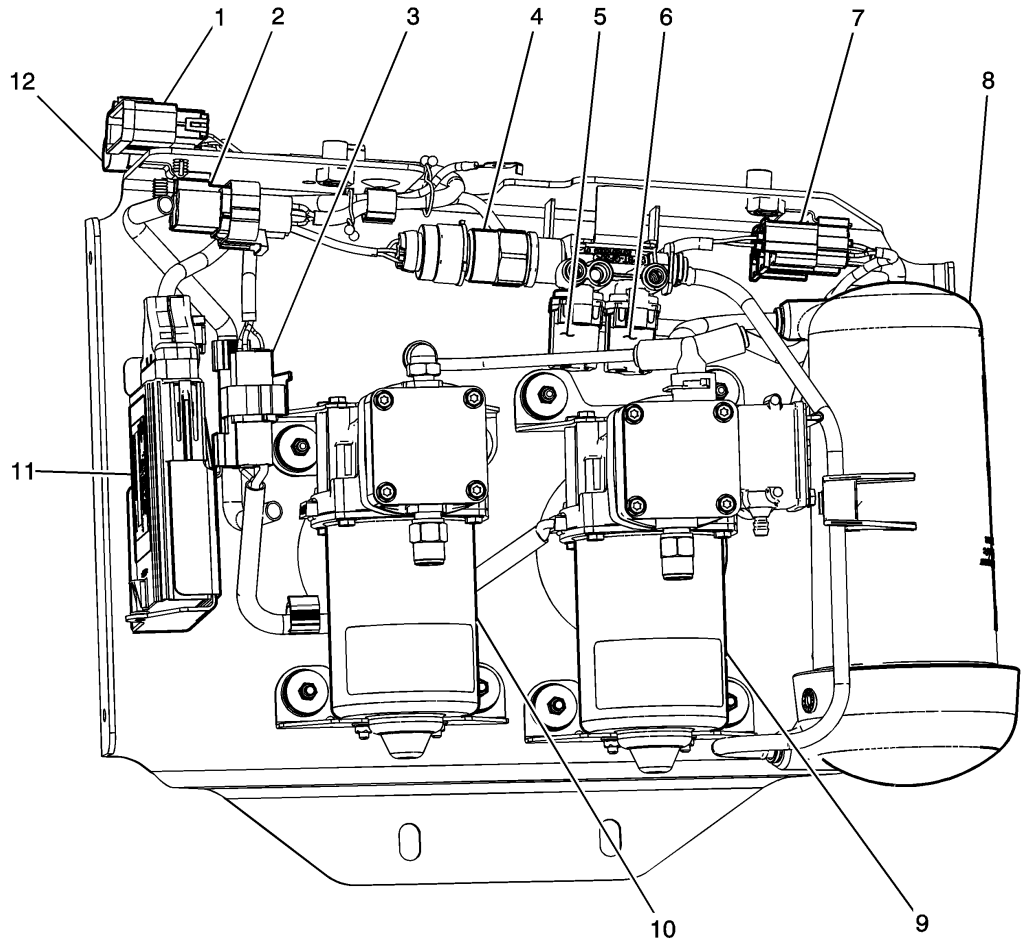
FIGURE Rear Underbody (Except Early Production SUV)(c)



(1) C451
(2) Air Suspension Compressor 1 Connector
(3) Air Suspension Compressor 2 Connector
(4) Air Suspension Pressure Sensor
(5) Air Suspension Inlet Valve-LR
(6) Air Suspension Inlet Valve-RR
(7) Air Suspension Exhaust Valve Connector
(8) Air Suspension Air Dryer
(9) Air Suspension Compressor 1
(10) Air Suspension Compressor 2
(11) Air Suspension Module
(12) C450