

ALL PARTS ARE TO BE INSTALLED BY A CERTIFIED ASE TECHNICIAN



2007-2014 Cadillac Escalade

2007-2014 Cadillac Escalade ESV

2007-2014 Cadillac Escalade EXT

2007-2013 Chevrolet Avalanche

2007-2017 Chevrolet Tahoe

2007-2014 GMC Yukon

2007-2014 GMC Yukon XL 1500

Front Electronic Suspension to Passive
Gas Strut Conversion Kit



151G-12-F

Before you begin the removal or installation, please read all or the instructions thoroughly!
The warranty will be void if instructions are not followed exactly. Do not work under a vehicle supported by a jack.
Always support the vehicle safety standards.

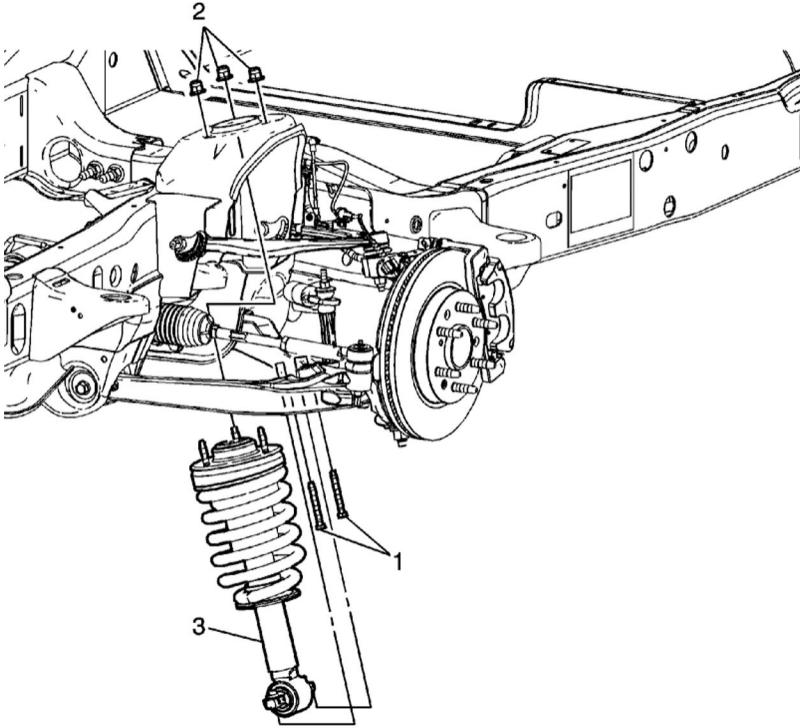


BEFORE YOU BEGIN THE REMOVAL OR INSTALLATION, PLEASE READ ALL OF THE INSTRUCTIONS THOROUGHLY!

THE WARRANTY WILL BE VOID IF INSTRUCTIONS ARE NOT FOLLOWED EXACTLY. DO NOT WORK UNDER A VEHICLE SUPPORTED BY A JACK.

ALWAYS SUPPORT THE VEHICLE ON SAFETY STANDS.

Shock Absorber and Spring Assembly Replacement



- 1. Raise and support vehicle.**
- 2. Remove the front tire and wheel assembly.**
- 3. Disconnect the outer tie rod from the steering knuckle.**
- 4. Support the lower control arm.**
- 5. Disconnect the electronic suspension control electrical connector.**



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Shock Absorber Spring Replacement

Special Tools

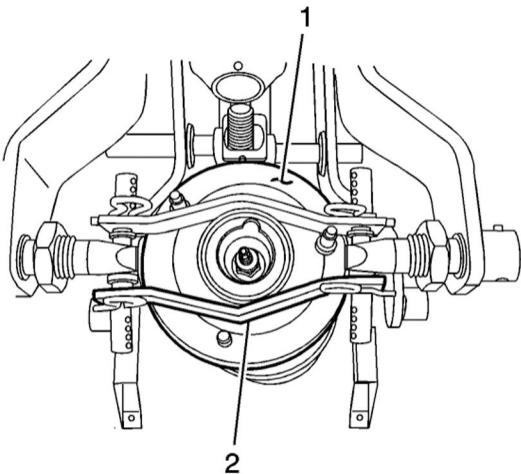
CH-48845 Spring Compressor

Removal Procedure

Warning

Use only the CH-48845 Spring Compressor when servicing suspension components on this vehicle. Other tools may not be strong enough for the springs on this vehicle and you could be injured if you do not use Special Tool CH-48845. Failure to do so could result in serious personal injury.

Note: Use only hand tools to perform the following service procedure.



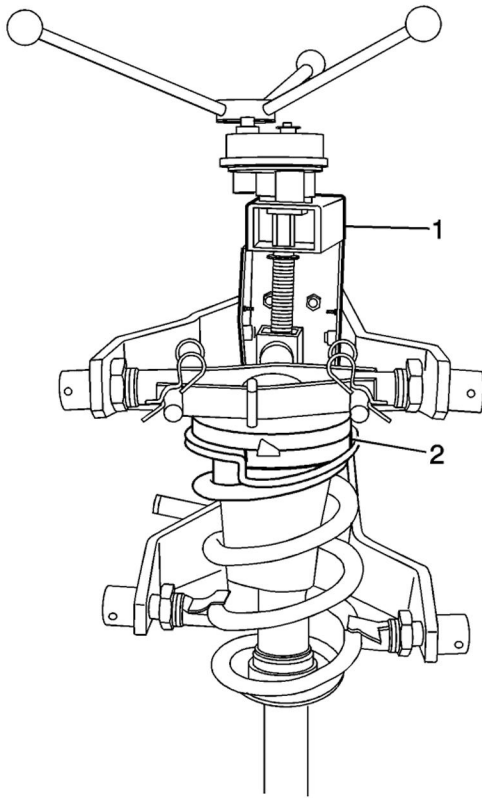
Install the front shock absorber assembly in the CH-48845.



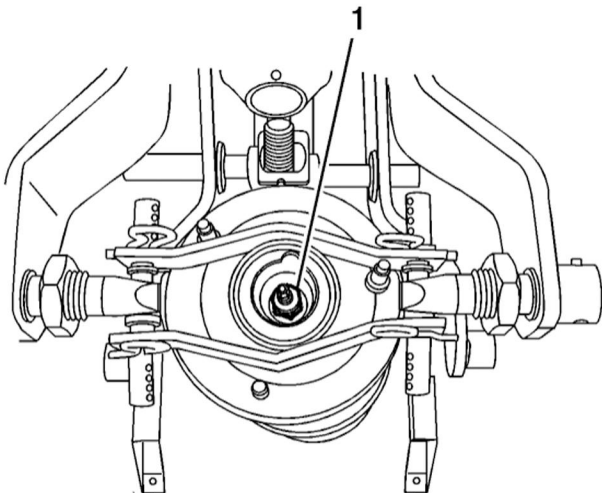
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2. Position the shock absorber (2) in the upper retaining bracket of the CH-48845 (1) so the shock absorber will be centered

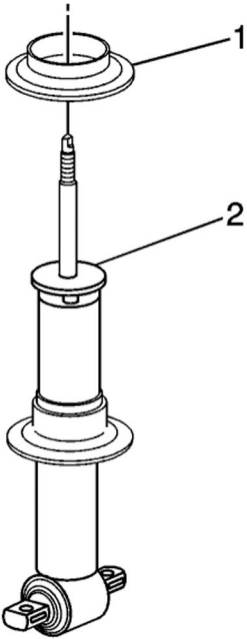


3. Using the CH-48845 (1), compress the front spring (2).

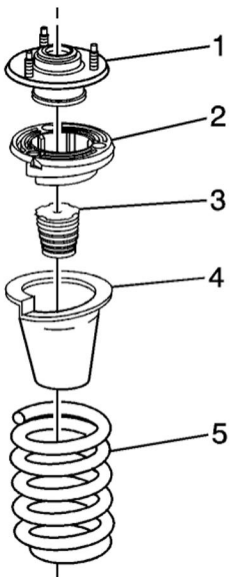
4. Using the appropriate size wrench, hold the shock absorber shaft.

Note: DO NOT re-use the shock absorber nut, discard and replace with new ONLY.

5. Using the appropriate tool, remove and discard the shock absorber nut (1).

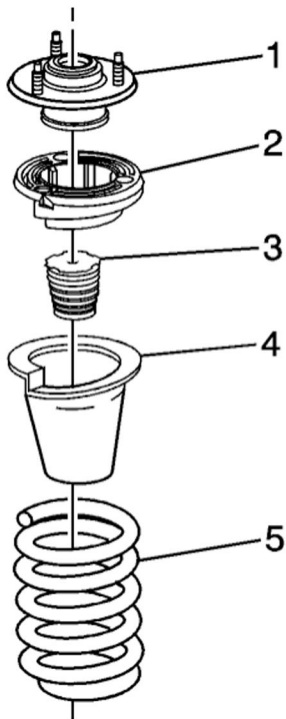


6. Remove the front lower shock absorber (2) and the front spring lower insulator (1)



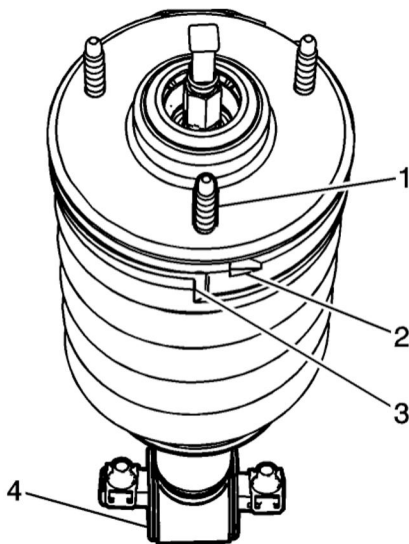
7. Remove the front suspension strut mount (1), front spring upper seat (2), front suspension strut bumper (3), front spring upper insulator (4), and the front suspension spring (5) from the spring compressor

Installation Procedure



Note: The inboard strut mounting studs are spaced closer together than the outboard stud. The outboard stud should be facing toward the outside (closest to the technician proper alignment).

1. Assemble the front suspension strut mount (1), front spring upper seat (2), front suspension strut bumper (3), front spring upper insulator (4), and the front suspension spring (5) in the spring compressor



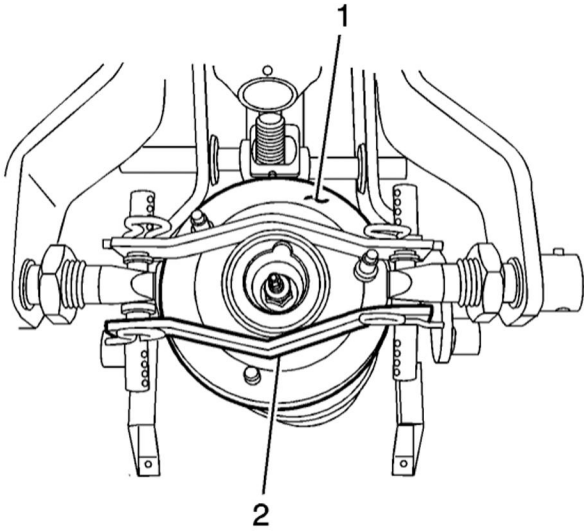
2. Align the spring seat stop (3), the outboard stud (1), and the center of the over strut mount (4). The notch in the spring seat (2) should be just to the right of the outboard stud.



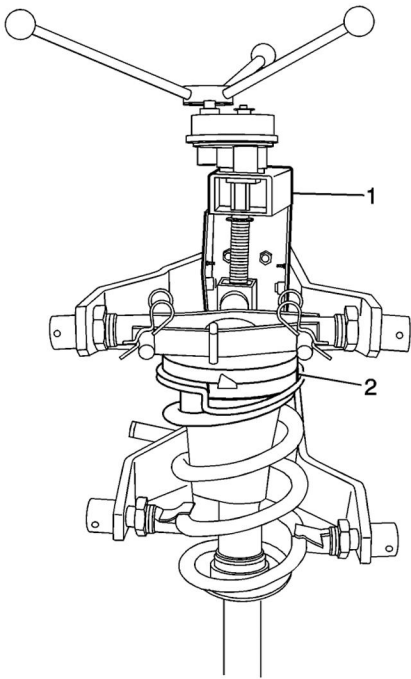
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3. Position the shock absorber (2) in the upper retaining bracket of the CH-48845 (1) so the shock absorber will be centered.



4. Using the CH-48845 (1), compress the front spring (2).

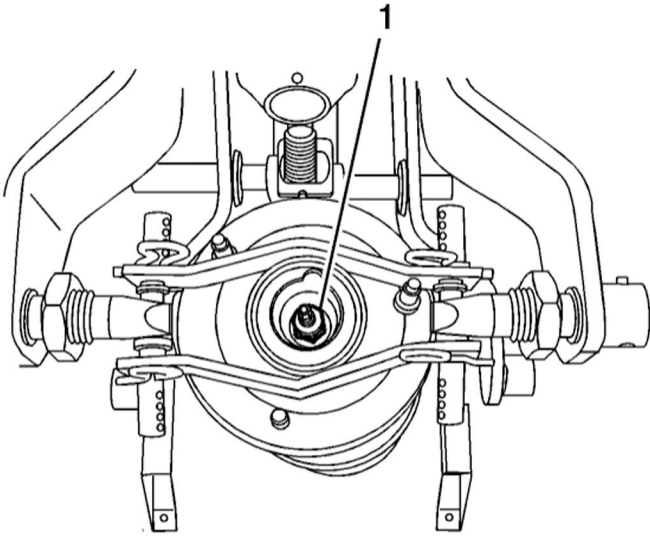
5. Using the appropriate size wrench, hold the shock absorber shaft



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6. Install the NEW shock absorber nut (1) and tighten.

7. Remove the shock absorber assembly from the spring compressor

8. Install the shock absorber in the vehicle.



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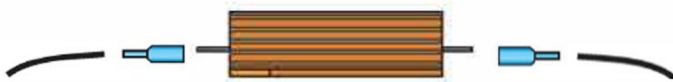
Resistors are connected into the wiring at each wheel to bypass the original dampening solenoid. This will allow the Road Sensing Suspension to function without giving the driver a "Suspension Error" message on the instrument cluster. The resistors are only meant to bypass the dampening solenoids, not disable the entire system. Check the suspension codes to ensure that you don't have other problems that will cause a suspension error message. To get an accurate reading of any suspension problems you may have occurring, you will need to clear all suspension codes and then test drive the vehicle and watch for suspension error messages.

Step 1

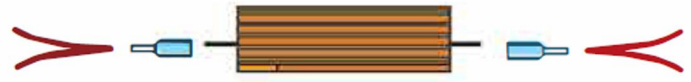
Cut the wires leading to the dampening solenoid (plug) on the wiring harness leading to the strut/ shock. After cutting the plug off there should be two or four wires.

Step 2

Connect the one wire to each end of the resistor. If you have four wires connect two wires to each end of the resistor. (This is an inline resistor, so it doesn't matter which end of the resistor each wire goes to.)



Two wire installation



Four wire installation

Step 3

Secure ends of wire to resistor using the connectors provided to prevent shorts and corrosion. To ensure connectors are secure use crimping tool. Tape or heat shrink wrap may be used as well.

******Resistors get very hot and must be installed and tied back onto frame of the vehicle. This will give resistors the proper ventilation and will prevent any issues.******

Step 4

Tie the resistor back out of the way. Installation is now complete.