

ALL PARTS ARE TO BE INSTALLED BY A CERTIFIED ASE TECHNICIAN



2011-2016 Jeep Grand Cherokee

Quadra Lift Suspension Air
Springs Rear

177C-15-R

Installation Guide



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.



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WARNING:

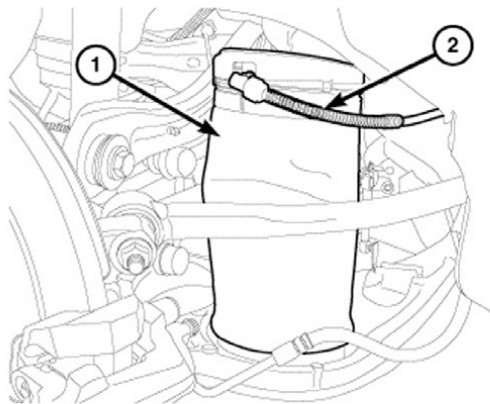
All pressurized air suspension components contain high pressure air (up to 220 psig). Use extreme caution when inspecting for leaks. Wear safety goggles and adequate protective clothing when inspecting or servicing the air suspension system. A sudden release of air under this amount of pressure can cause possible serious or fatal injury.

WARNING:

Support the vehicle by supplemental means before performing any work on the air suspension system to prevent the vehicle from changing height. Before any given component is to be serviced it must be deflated. Servicing the air suspension system without supplemental support, or with pressure in the specific component, can cause possible serious or fatal injury.

CAUTION:

When removing an air line from a component and the air line is to be reused, do not remove the 90° fitting or the brass fitting from the air line. If either is removed, the air line must be replaced. New components have air line fittings attached; however if the original air line is used the original fitting must also be used. Do not remove protective caps or plugs from air lines or components until ready to install the air line to prevent moisture or dirt intrusion. All air line fittings must be hand started to avoid cross threading.



- 1. Raise and support the vehicle**
- 2. With a scan tool, using the routines under the ASCM, perform the following:**
 - A. Disable the air suspension system.**



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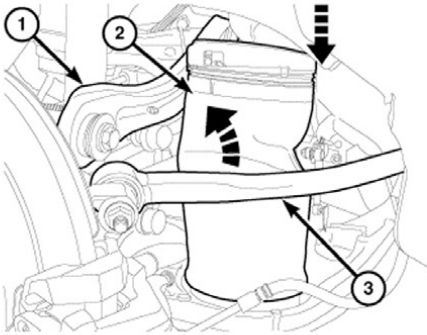
B. Run the Spring Deflate To Reservoir routine on the air suspension spring to be removed.

3. Remove the tire and wheel.

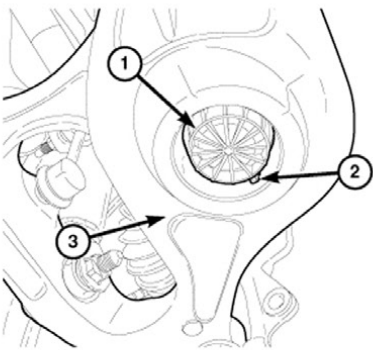
NOTE:

Do not remove the fitting from the air line. During installation the same fitting will be used. If the fitting is removed from the air line, the air line must be replaced.

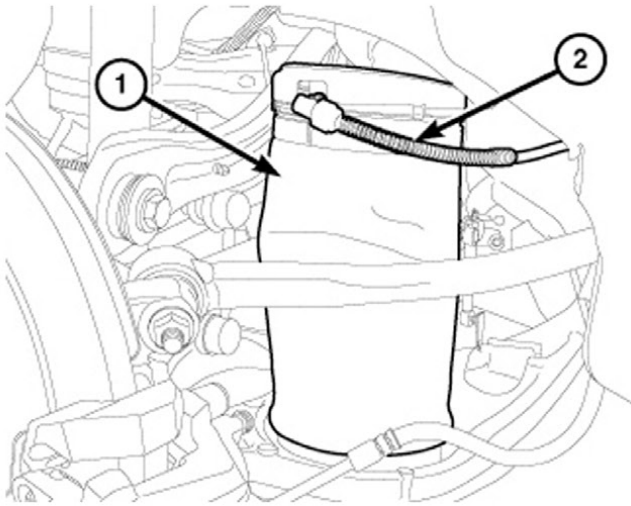
4. Remove air line fitting and air line (2) from the air spring.



5. To remove the air spring (2), push down on the air spring (2) to compress, tilt the top out and lift the air spring (2) from the lower control arm between the tension link (3) and camber link (1).



6. Position the rear air spring (1) with the lower alignment tab (2) into the slot in the lower control arm (3) and align the upper portion of the rear air spring (1) into the upper pocket as when removed.



- 7. If a new rear air spring is used, remove the cap/fitting from the air line connection of the rear air spring.**
- 8. Using the original fitting, connect the air line (2) to the rear air spring and tighten to 3.5 Nm (31 in. lbs.).**
- 9. With a scan tool, using the routines under the Air Suspension Control Module (ASCM), perform the following:**
- 10 Run the Fill Spring From Reservoir routine on the spring that was installed. Choose the Short Time Fill option from the menu selections and the spring will inflate for approximately one second, then verify the air spring is properly seated into its mounting sockets, and any wrinkles in the air bag have unfolded properly.**
- 11. Run the Fill Spring From Reservoir routine on the spring that was installed. Choose the Complete Fill option from the menu selections.**
- 12. Install the tire and wheel.**
- 13. Remove the support and lower the vehicle.**



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- 14. With a scan tool, using the routines under the Air Suspension Control Module (ASCM), perform the following:**
 - A. Command the vehicle to Normal Ride Height.**
 - B. Run the Air Mass Calculation routine on the air suspension system.**
 - C. If necessary, add to the system or deflate to atmosphere using the ASCM routines, then repeat the Air Mass Calculation routine again until system responds with Air Mass OK (188 - 216 bar-liters).**
 - D. Enable the air suspension system.**