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2016 JEEP Compass OEM Service and Repair Workshop Manual

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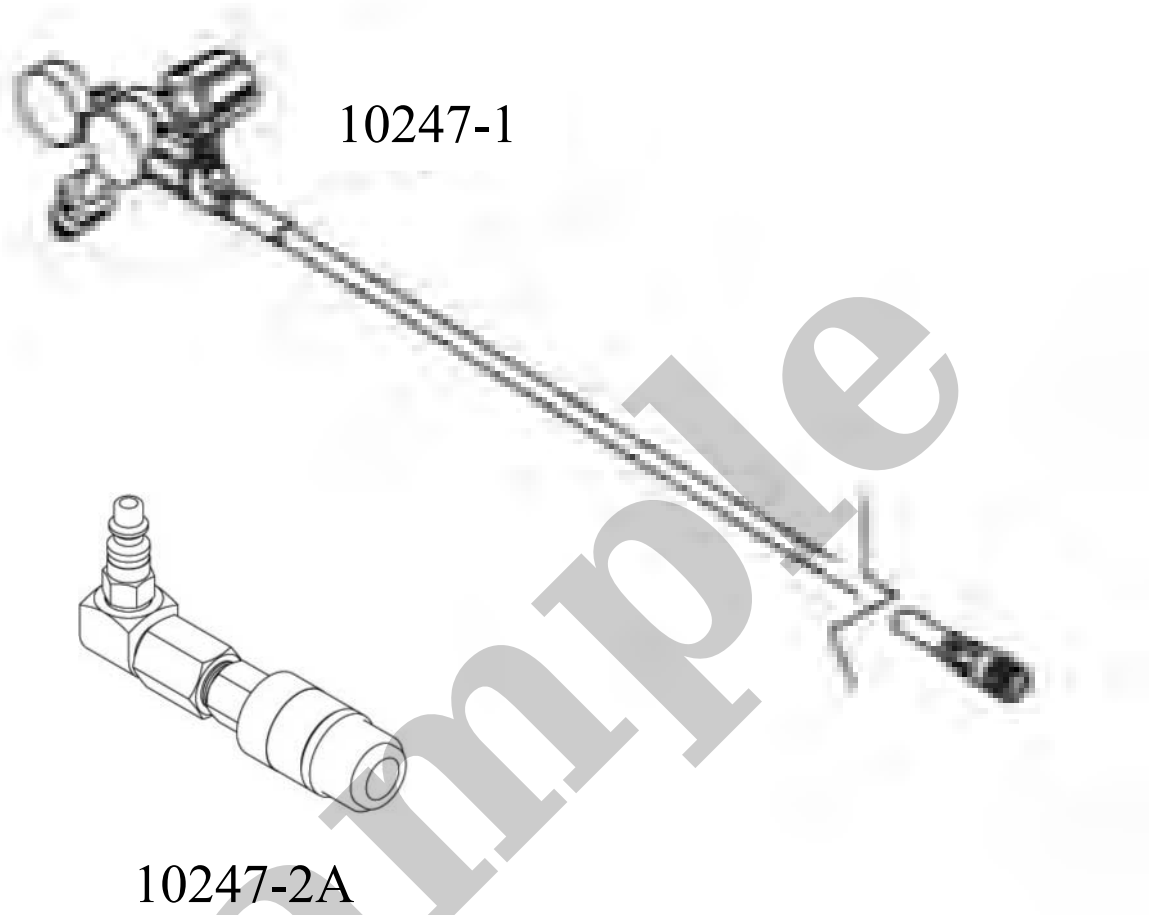
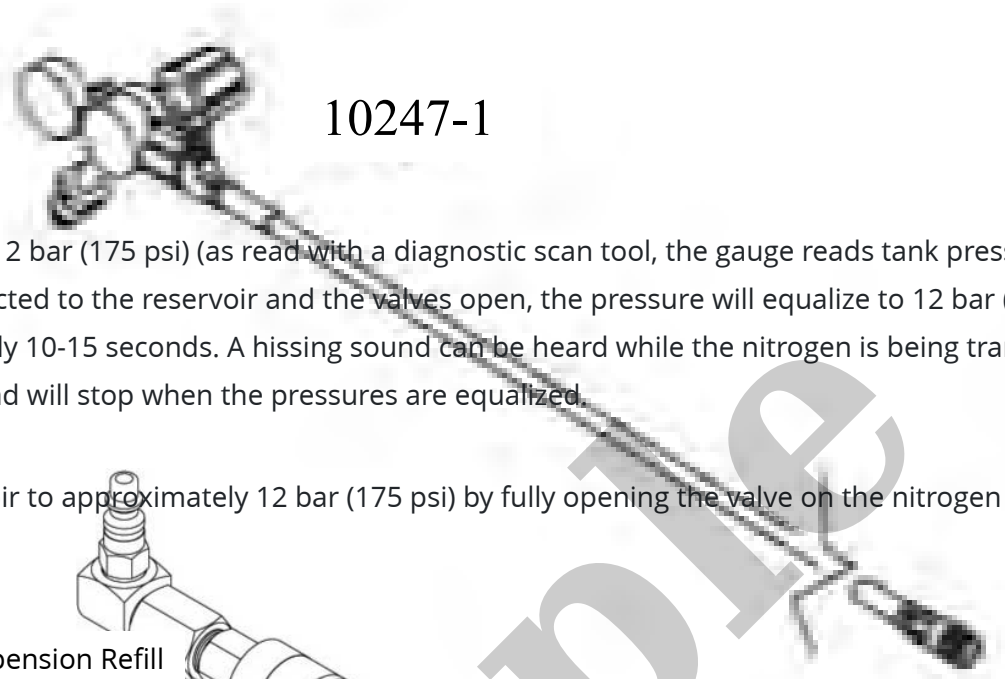
Tool, Air Suspension Refill



reads the tank pressure. The regulator limits the pressure in the line to 12 bar (175 psi). When connected to the reservoir with the valves open, pressure in the reservoir can be read on a diagnostic scan tool.

NOTE

Tool, Air Suspension Refill

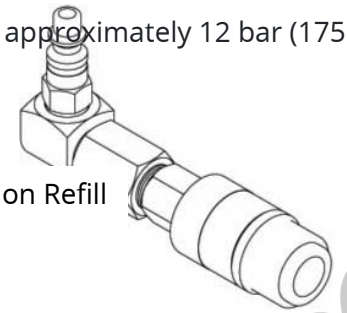


10247-1

is preset to 12 bar (175 psi) (as read with a diagnostic scan tool, the gauge reads tank pressure only). When connected to the reservoir and the valves open, the pressure will equalize to 12 bar (175 psi) in approximately 10-15 seconds. A hissing sound can be heard while the nitrogen is being transferred and the sound will stop when the pressures are equalized.

6. Fill the reservoir to approximately 12 bar (175 psi) by fully opening the valve on the nitrogen tank and the valve on

Tool, Air Suspension Refill



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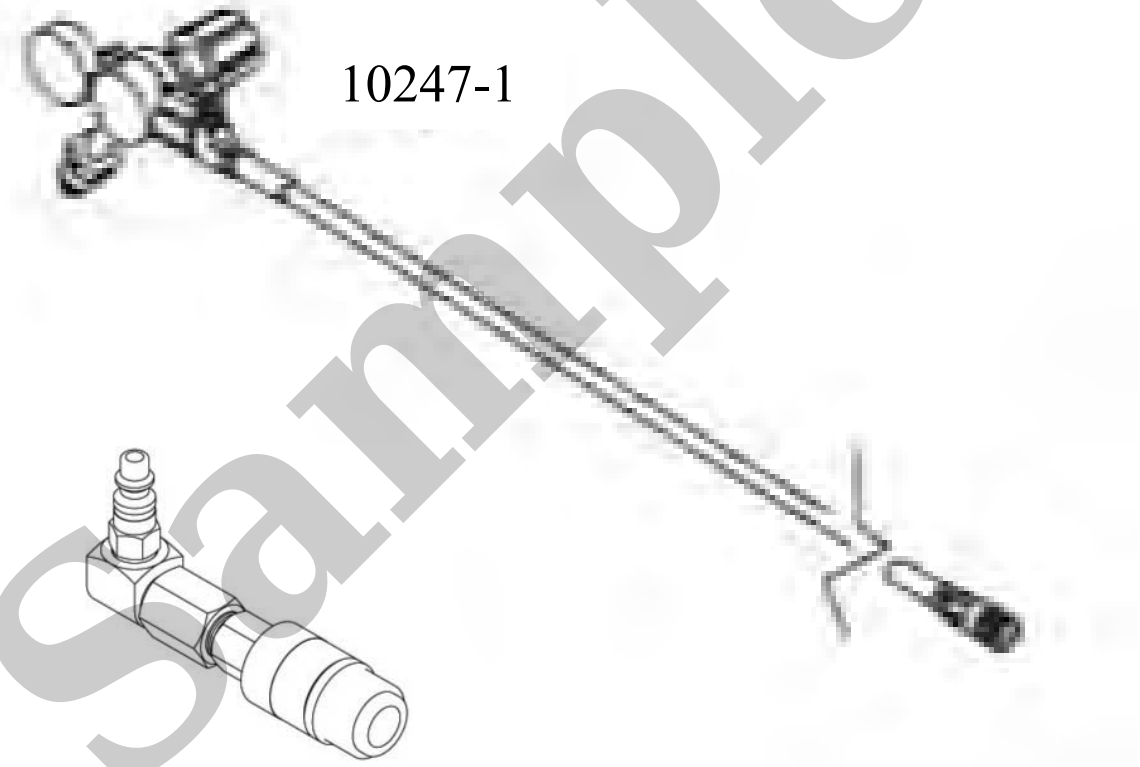
NOTE

Before connecting the quick-coupler to the reservoir fill connection, make sure the valve is closed by turning the valve counterclockwise.

6. Using

Tool, Air Suspension Refill



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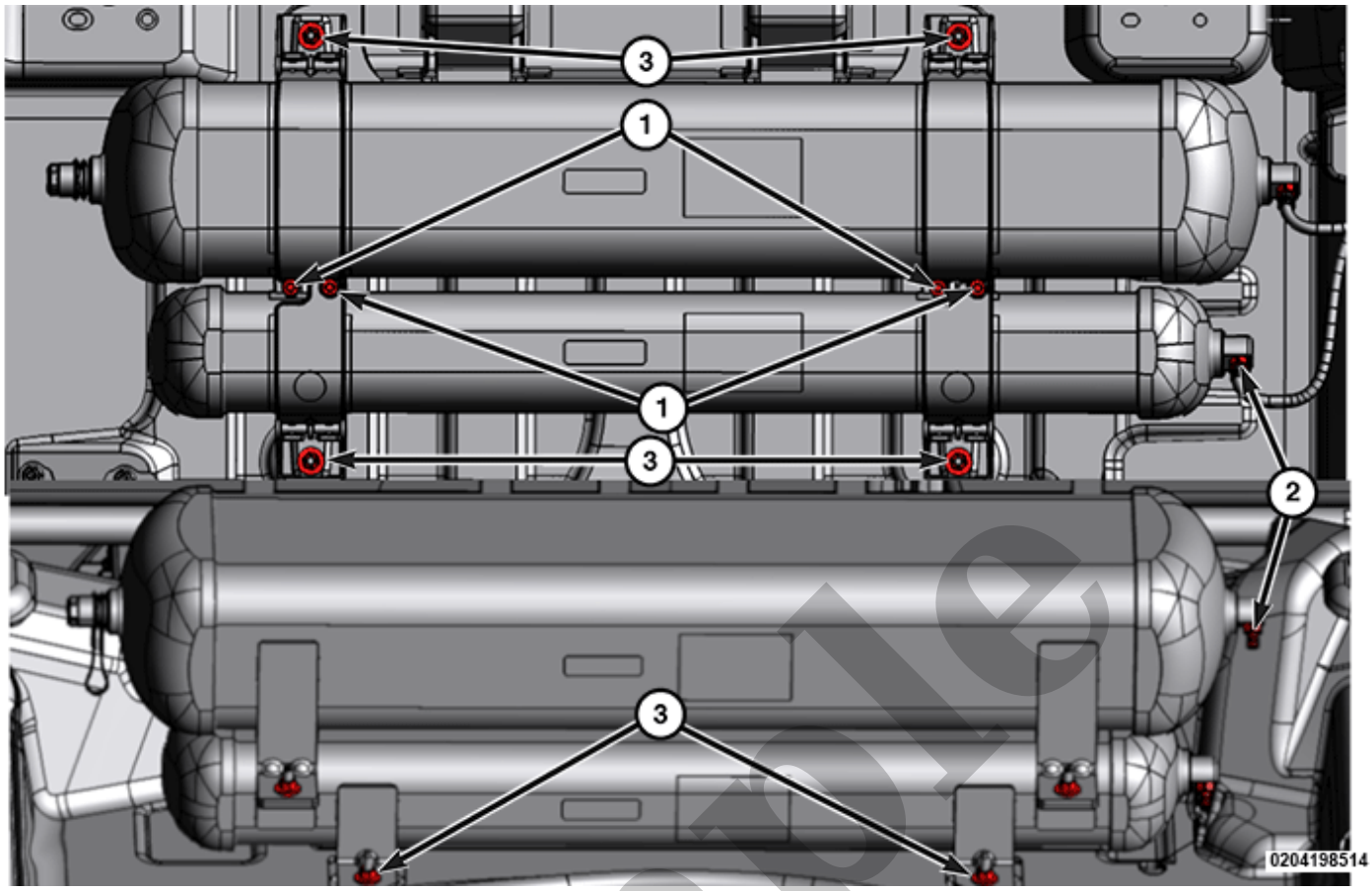
, remove the air hose from the quick-coupler and connect the quick-coupler to the air suspension reservoir fill connection, then slowly open the valve by turning it clockwise to exhaust the pressure from the reservoir.



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Air Reservoir Strap Bolts	**2 N·m (18 In. Lbs.)**	—
2	Air Reservoir Line Nut	**6 N·m (53 In. Lbs.)**	—
3	Air Reservoir Bracket Nuts	**11 N·m (8 Ft. Lbs.)**	—

TORQUE SPECIFICATIONS - SENSORS

diagnostic scan tool is used, it will only disable the level control (automatic and manual) for that ignition cycle. The air suspension system can also be enabled by driving the vehicle above 19 km/h (12 mph). The air suspension must be disabled prior to lifting the vehicle or performing any work.

1. Place the air suspension system in Park Mode (Entry/Exit).
2. Raise and support the vehicle (Refer to Vehicle Quick Reference/Hoisting - Standard Procedure).
3. With a diagnostic scan tool, using the routines under the Air Suspension Control Module (ASCM), perform the following:
    - Disable the air suspension system (Refer to 02 - Front Suspension/Air Suspension/Standard Procedure).
    - Run the Spring Deflate To Atmosphere routine on each of the front springs. When in the Spring Deflate to Atmosphere menu, choose to "completely deflate" for each of the front springs.
4. With a diagnostic scan tool, under the Air Suspension Control Module (ASCM) run the “Deflate to Atmosphere” routine and select “Reservoir 2 Only (Fast Down Leveling Reservoir)” then “Complete Deflate”.

NOTE

This routine will deflate the reservoir to a predefined pressure set point. It may be necessary to loosen air line fittings to release residual air pressure.

Warning

WARNING

WARNING

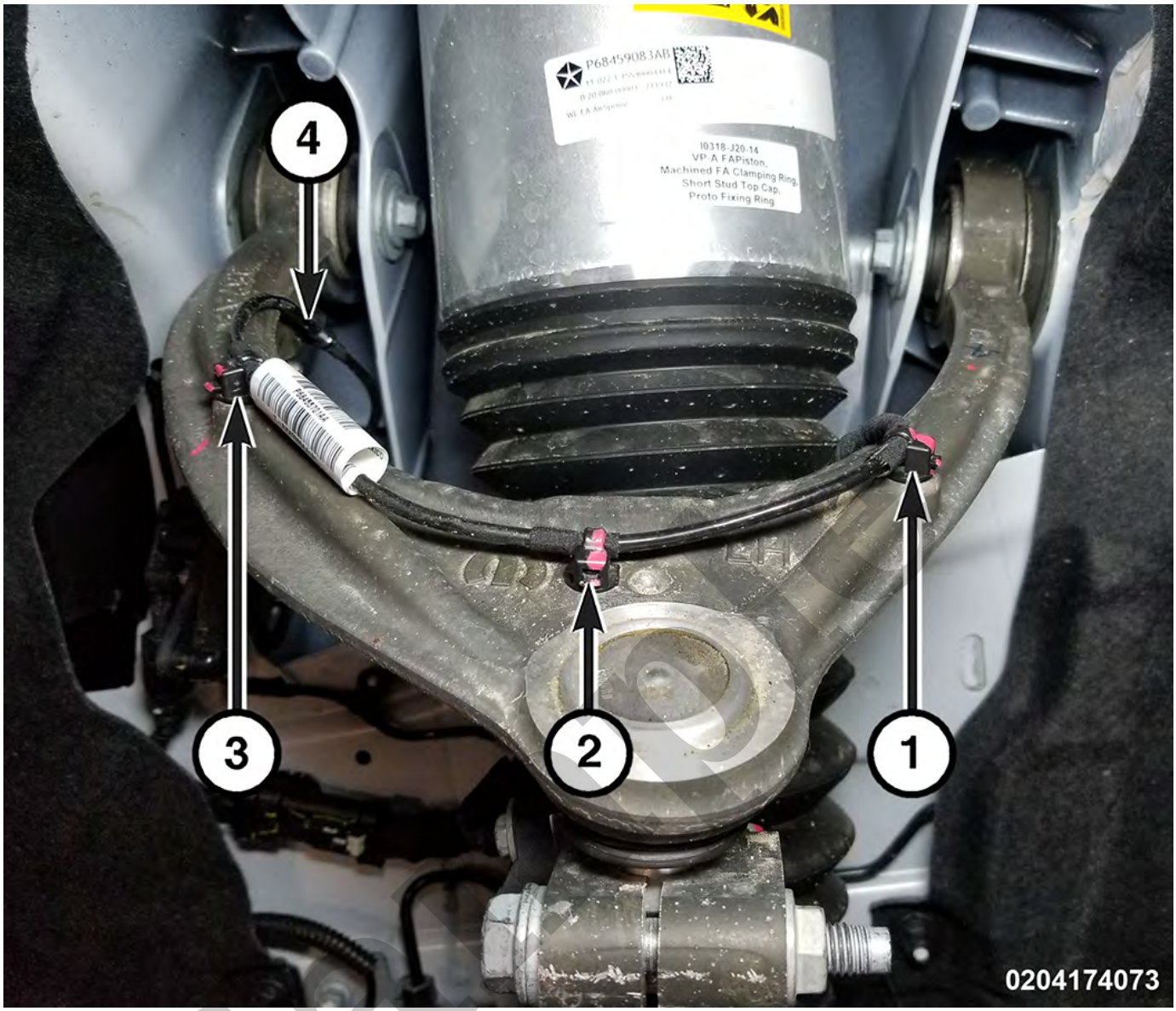
All pressurized air suspension components contain high pressure air (up to 220 psig). Use extreme caution when inspecting for leaks. Wear safety goggles and adequate protective clothing when inspecting or servicing the air suspension system. A sudden release of air under this amount of pressure can cause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

WARNING

Before performing any service on the air suspension system, the system must be disabled to prevent the system from changing ride height. Before any given component is to be serviced it must be deflated. Servicing the air suspension system without the system disabled, or with pressure in any specific component, can cause possible serious or fatal injury.

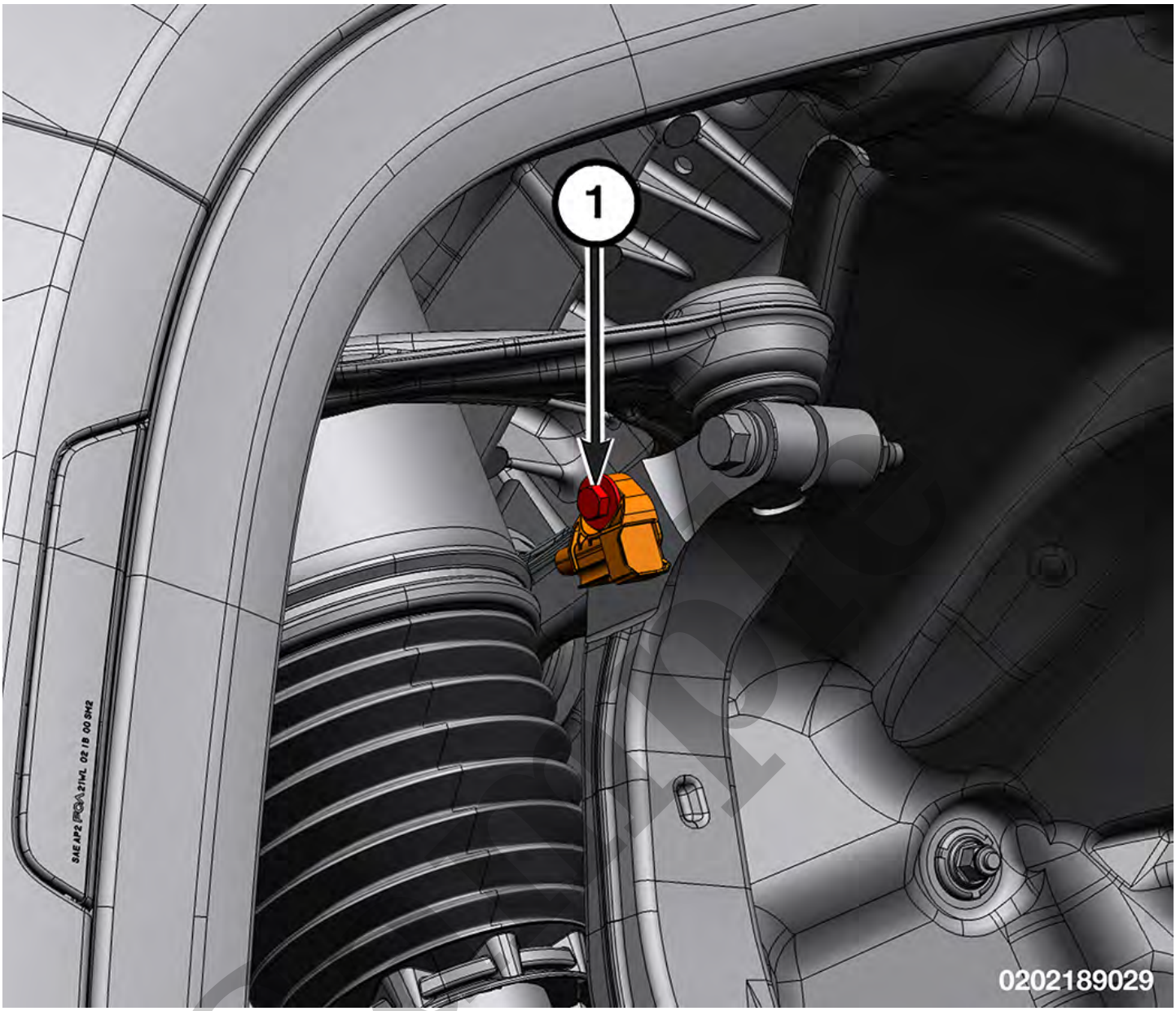
WARNING

After the front air spring is deflated, the pressure relief valve will still hold some pressure in the front air spring/shock assembly. If pressure relief valve removal is necessary, the vehicle must be hoisted with all four wheels off the ground, then the pressure relief valve must be slowly removed to allow residual pressure to vent. If the vehicle is not hoisted, the suspension could lower, causing injury.



1-4 - Wire Harness Routing Clips

11. Disengage the wire harness routing clips.



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENT
1	Active Damping Sensor Bolt	**9 N·m (80 In. Lbs.)**	—

TORQUE SPECIFICATIONS - FRONT SUSPENSION

YOUR CURRENT VEHICLE

Lower Ball Joint

LOWER BALL JOINT

There are two lower ball joints on this vehicle, one that is integral to the spring link and the other is integral to the tension link.

For spring link removal and installation (Refer to Front Suspension/Front/LINK, Spring/Removal and Installation)(Refer To List 1).

For tension link removal and installation (Refer to Front Suspension/Front/LINK, Tension/Removal and Installation)(Refer To List 1).

For lower ball joint diagnosis and testing information (Refer to Front Suspension/Front/Diagnosis and Testing).

Refer To List:

List 1

- 02 - Front Suspension / Front / LINK, Stabilizer Bar / Removal and Installation
- 02 - Front Suspension / Front / LINK, Spring / Removal and Installation
- 02 - Front Suspension / Front / LINK, Tension / Removal and Installation