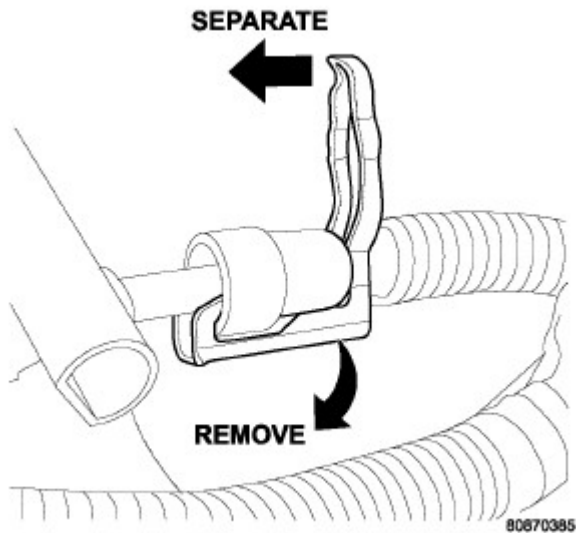


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2013 Jeep COMPASS PATRIOT Service Manual

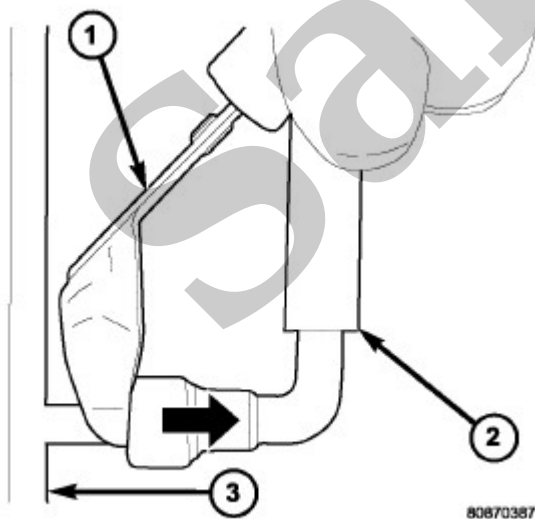
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Depending on vehicle model and engine, 2 different types of safety latch clips are used. One is tethered to the fuel line and the other is not. A special tool will be necessary to disconnect the fuel line after the latch clip is removed. The latch clip may be used on certain fuel line and fuel rail connections or to join fuel lines together.

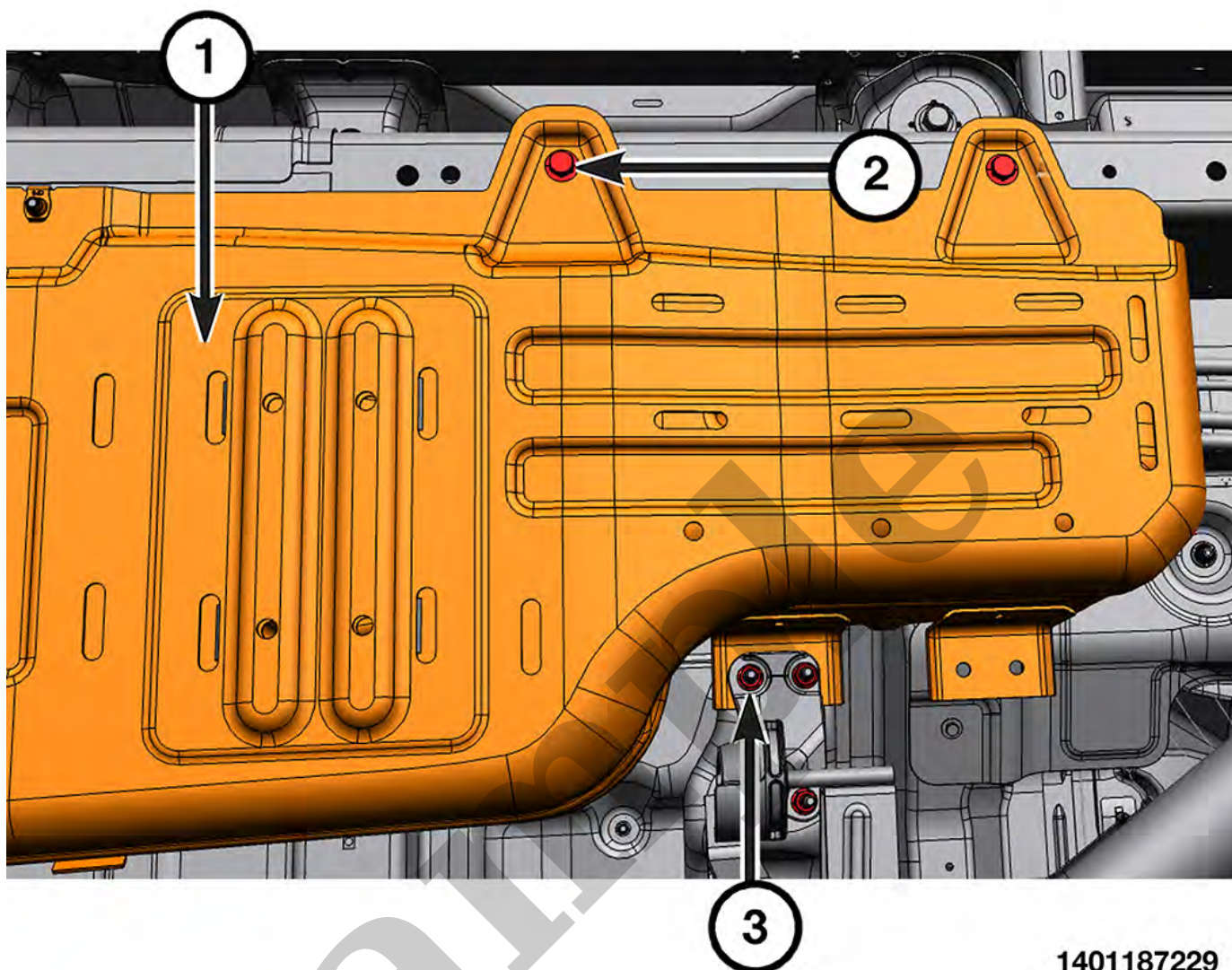
1. Unlatch the small arms on the end of clip, swing away and separate from the fuel system component.
2. Slide the latch clip away from the quick-connect fitting while lifting with a screwdriver and position aside.

Fuel Line Disconnection Using Special Tool



1 - Fuel Line Removal Tool

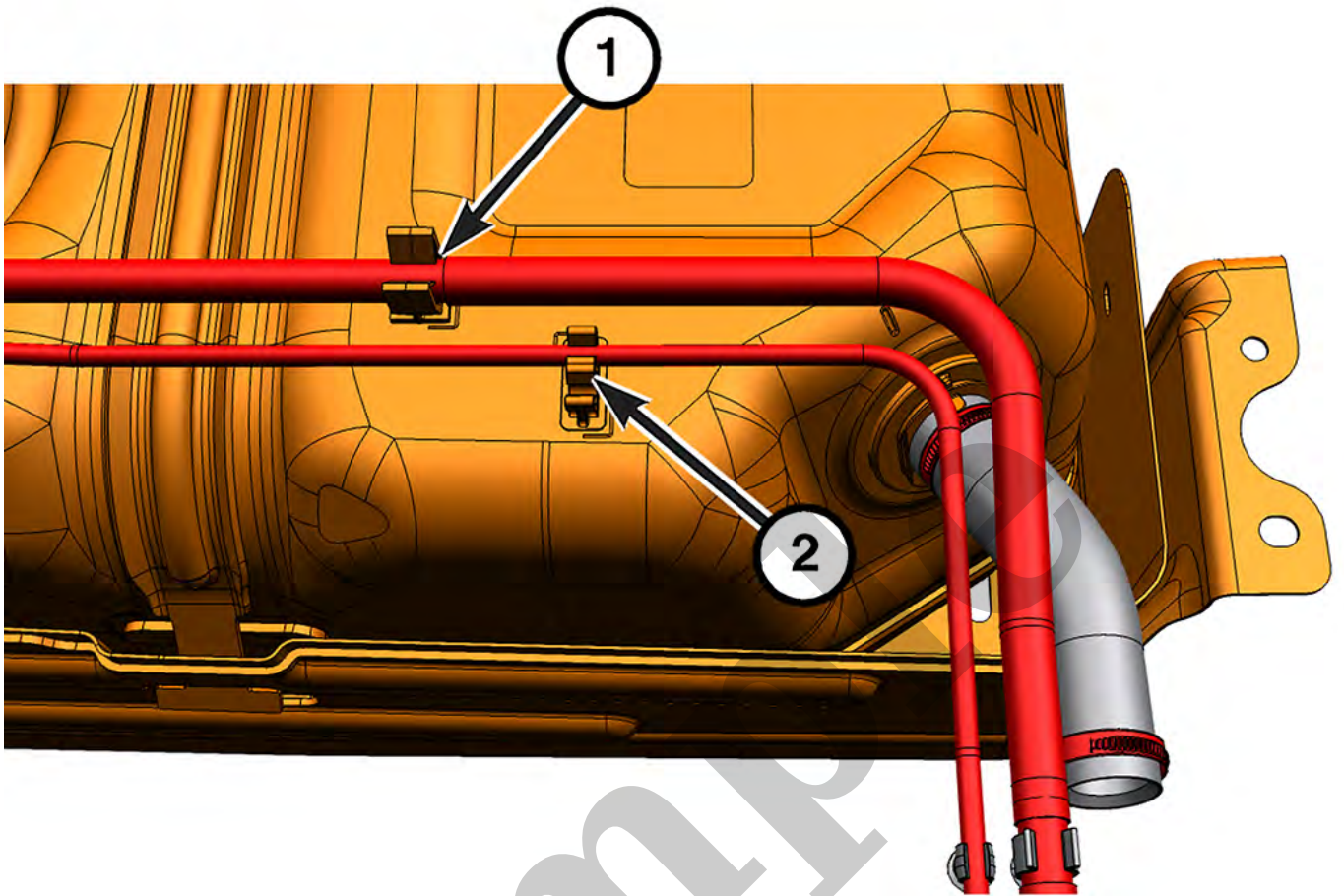
2 - Fuel Line



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1 - Fuel Tank Skid Plate
2 - Fuel Tank Skid Plate to Frame Bolts
3 - Exhaust Hanger Nuts

3. Using a suitable jack support the fuel tank and skid plate, remove the bolts securing the assembly to the frame.
4. Remove the exhaust hanger nuts and reposition.
5. Perform the fuel tank draining procedure ([Refer to Engine/Fuel System/Standard Procedure](#))([Refer To List 1](#)).

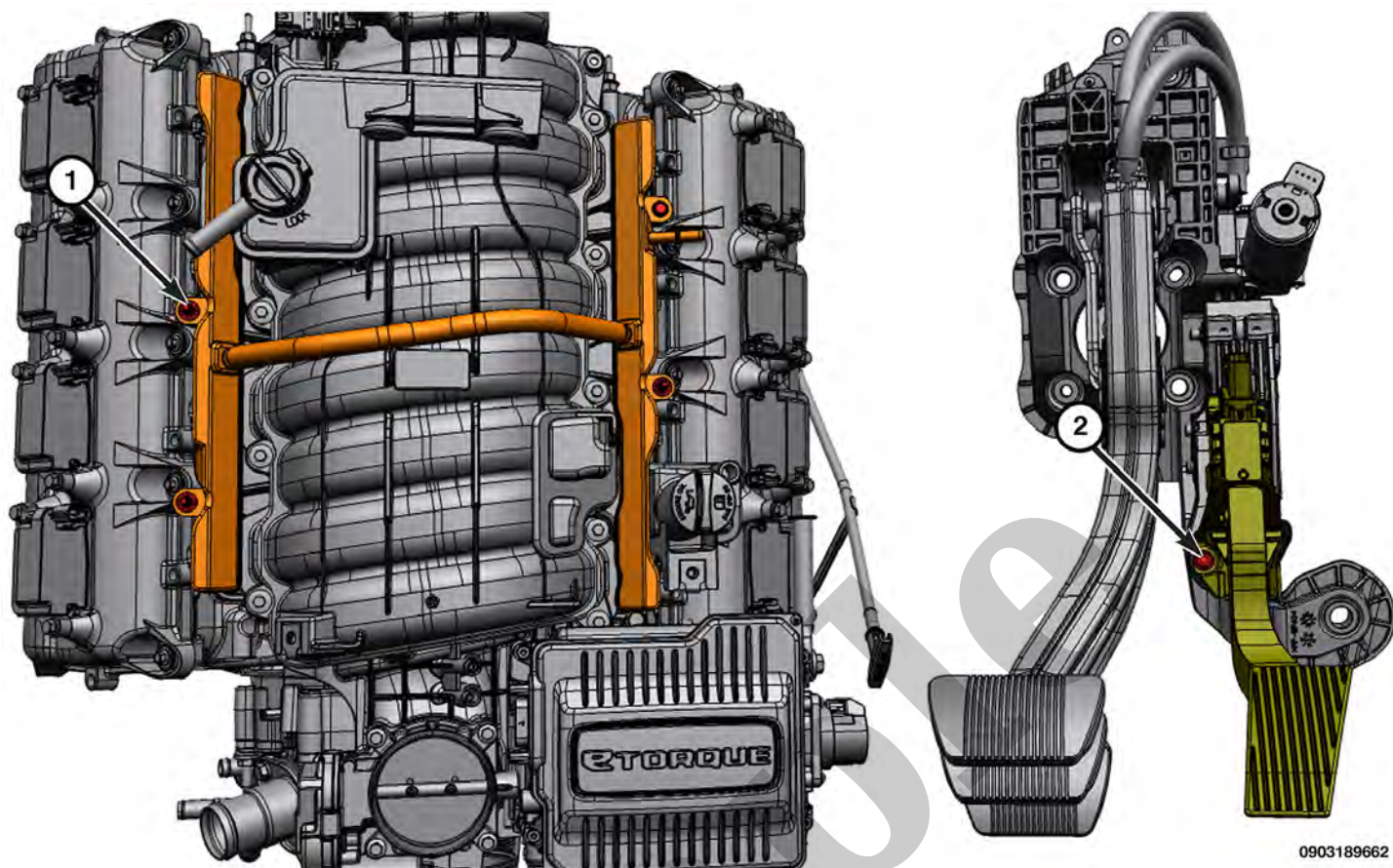


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1 - Fuel Supply Line

2 - Fuel Vapor Line

10. Release the fuel supply and vapor lines from the fuel tank..
11. Lower the tank and remove it from the vehicle.



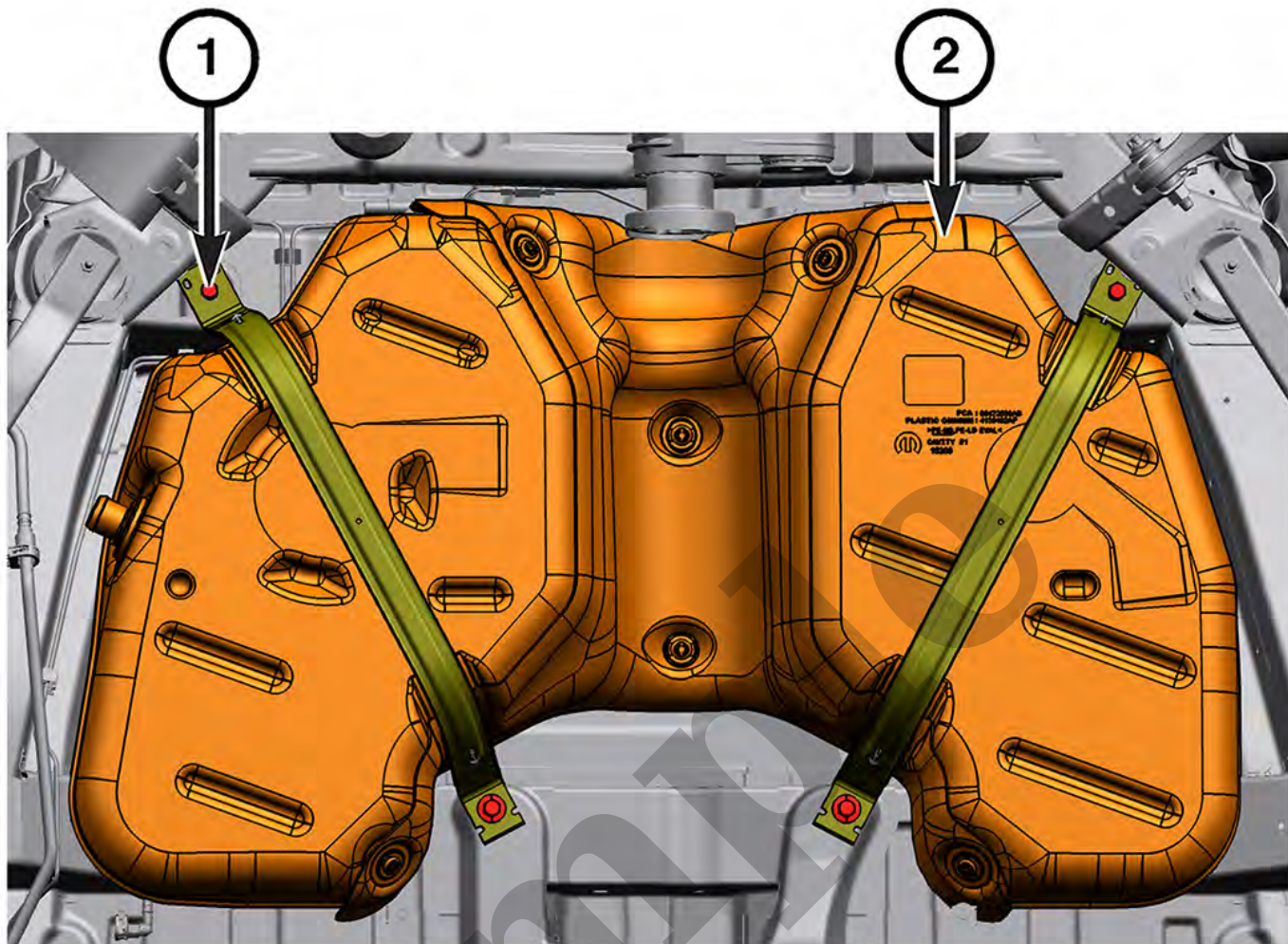
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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Fuel Rail to Intake Bolts	5 N·m (44 In. Lbs.)	-
2	Accelerator Pedal to Bracket Bolt	5 N·m (44 In. Lbs.)	-

Refer To List:

List 1

- [09 - Engine, 2.0L / Fuel System / Standard Procedure](#)
- [09 - Engine, 3.6L / Fuel System / Standard Procedure](#)
- [09 - Engine, 5.7L / Fuel System / Standard Procedure](#)



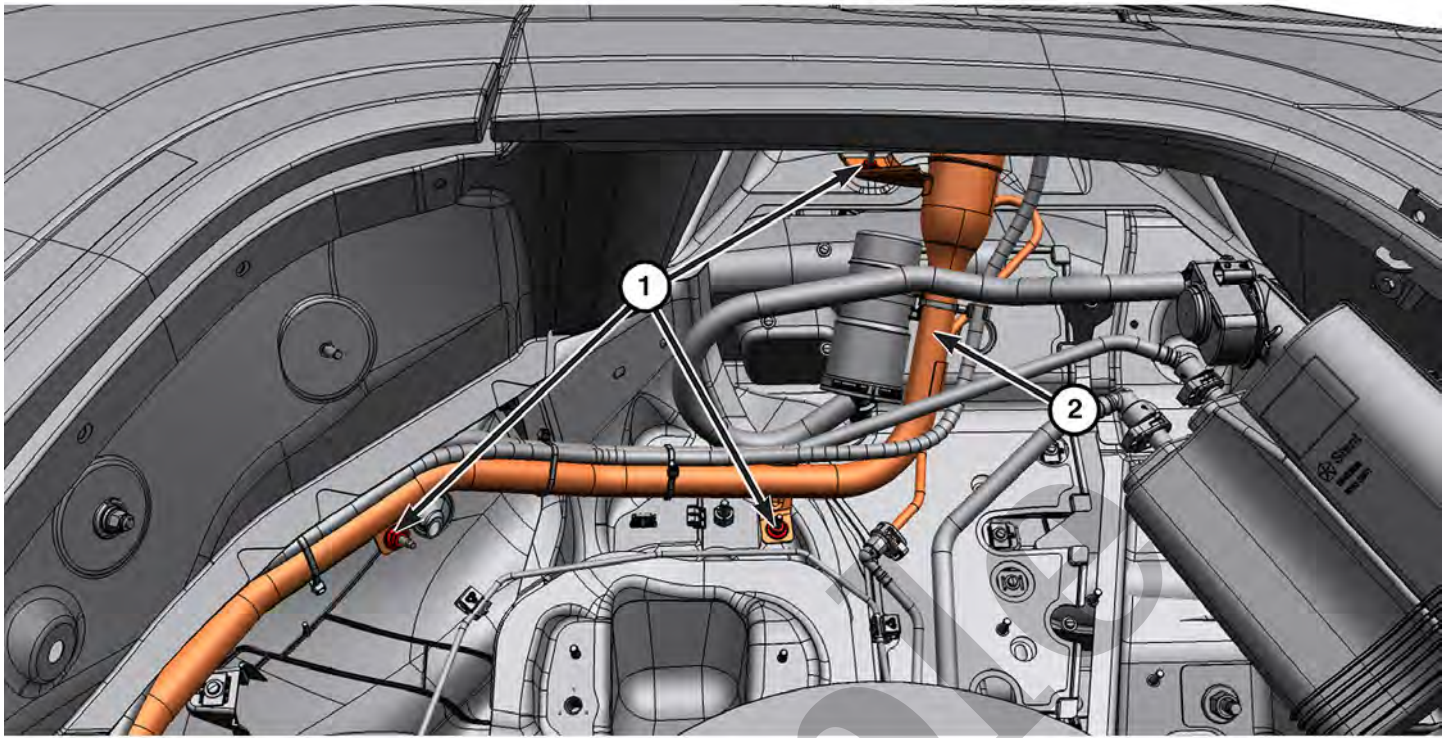
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1 - Fuel Tank Strap Bolts

2 - Fuel Tank

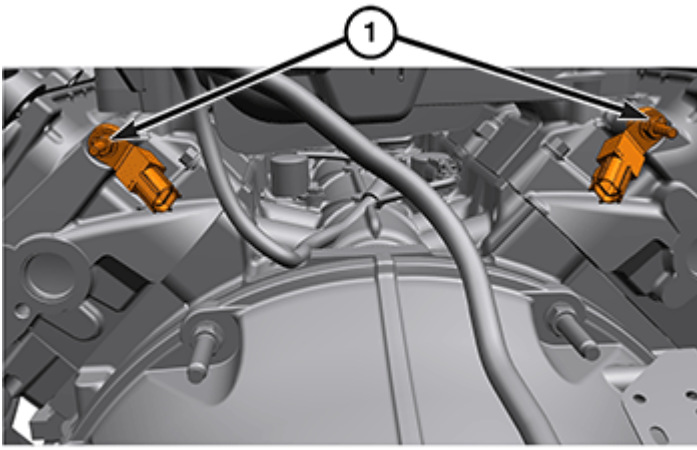
11. Remove the fuel tank straps bolts.

12. Using the hydraulic jack start to lower the fuel tank to gain access to the wire harness connector and vapor lines.



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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Fuel Filler Tube to Body Nut(s)	8 N·m (71 In. Lbs.)	-



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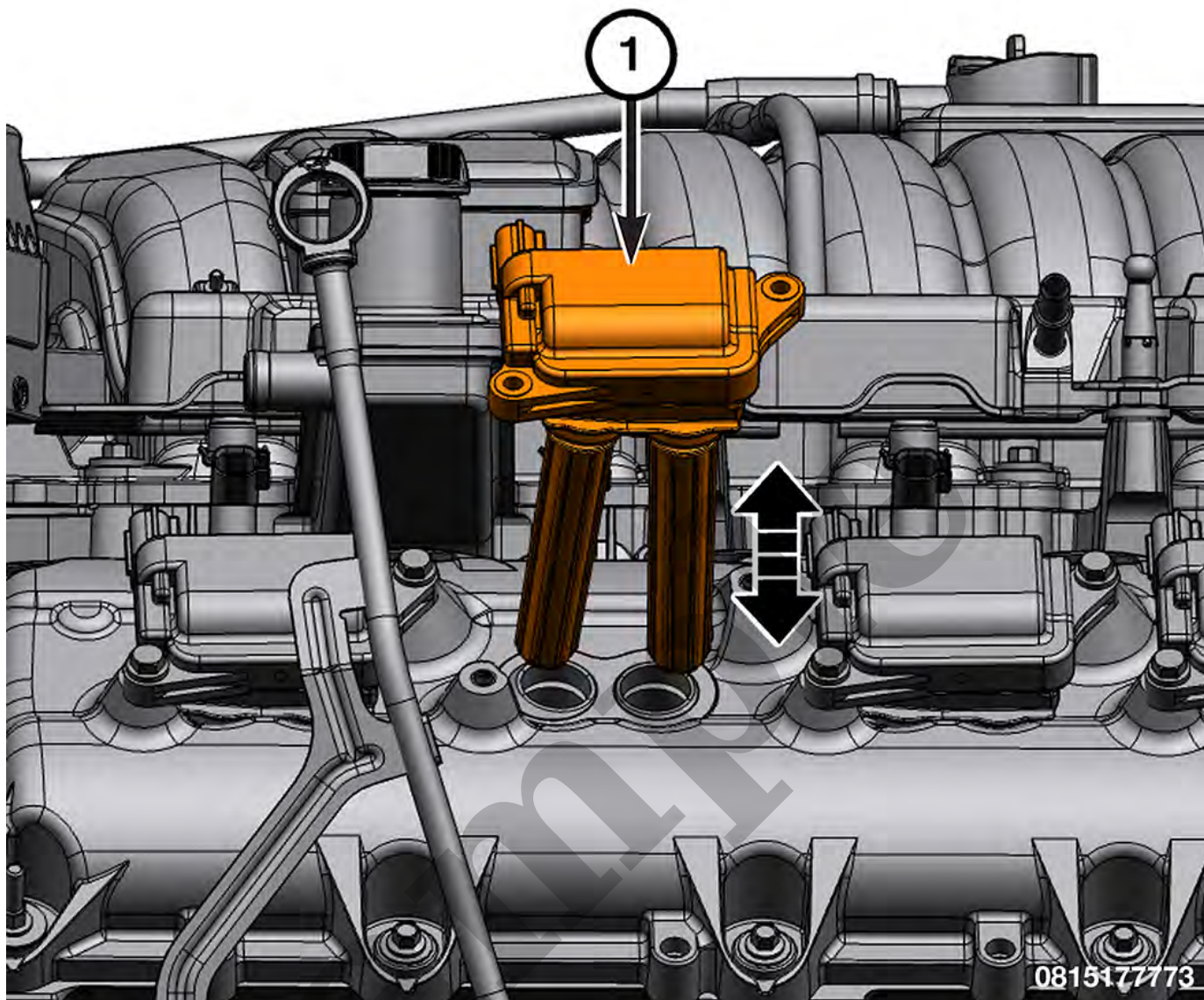
1 - Ignition Capacitor Stud Bolts

4. Remove the ignition capacitor stud bolts and remove the ignition capacitor.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle.

TORQUE SPECIFICATIONS - IGNITION - 5.7L



1 - Ignition Coil

5. Carefully pull up on the ignition coil from the valve cover.

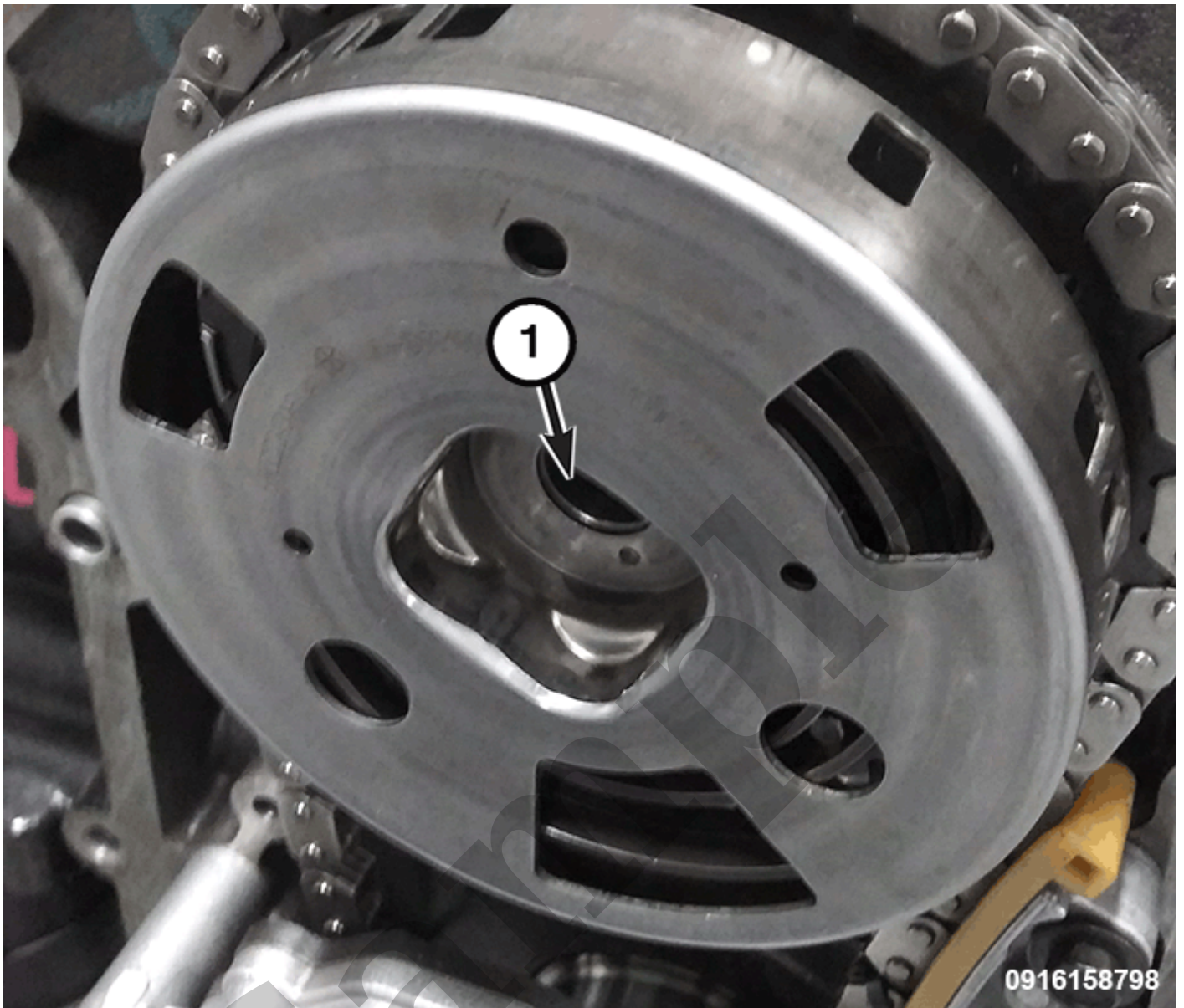
6. Remove the ignition coil from vehicle.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Using compressed air, blow out any dirt or contaminants from around top of spark plug.
- Use dielectric grease on each of the spark plug boots before installing the coil.
- Tighten the ignition coil bolts to the specified torque.

TORQUE SPECIFICATIONS - IGNITION - 5.7L



1 - Camshaft Phaser Tone Wheel

- The CMP sensor is located on the front timing cover.
- There is a metal tone wheel incorporated with the cam phaser. The tone wheel has holes spaced around the tone wheel to indicate camshaft position.
- The CMP sensor is hall effect sensor that varies the 5.0 volt signal high and low as the holes in the tone wheel pass by the sensor.

Crankshaft Position (CKP) Sensor

[Component Index](#)