

Your Ultimate Source for OEM Repair Manuals

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.

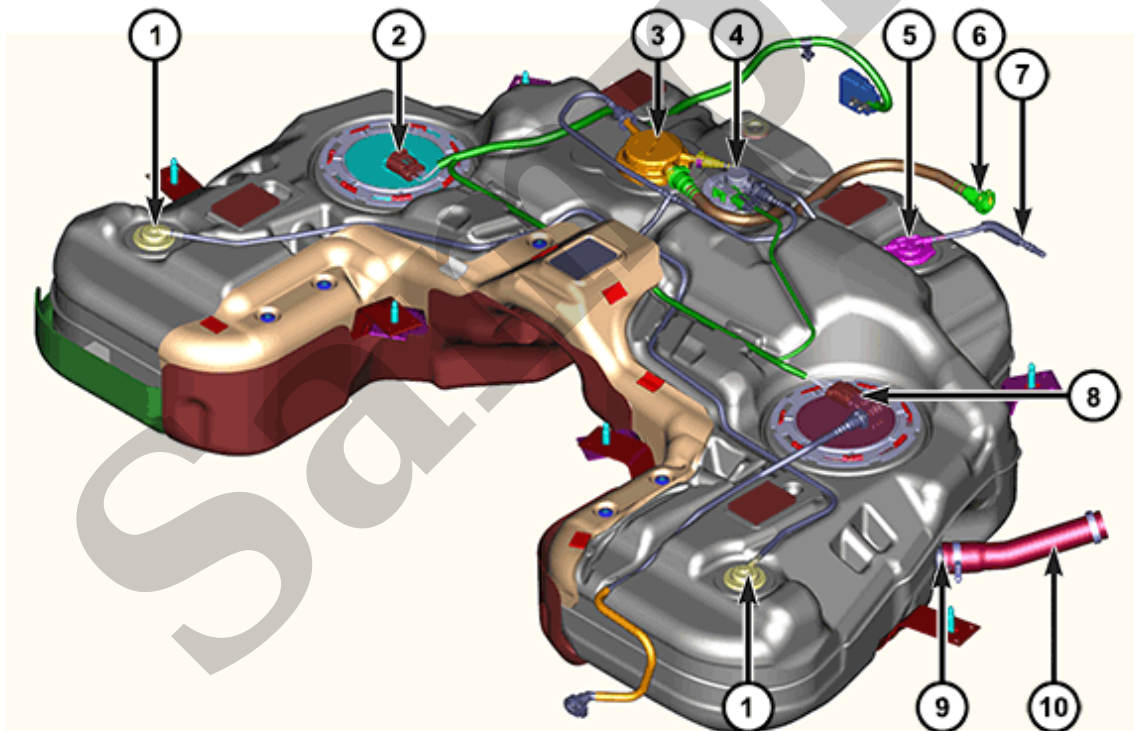
2010 JEEP Wrangler OEM Service and Repair Workshop Manual

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Hard To Fill With Fuel

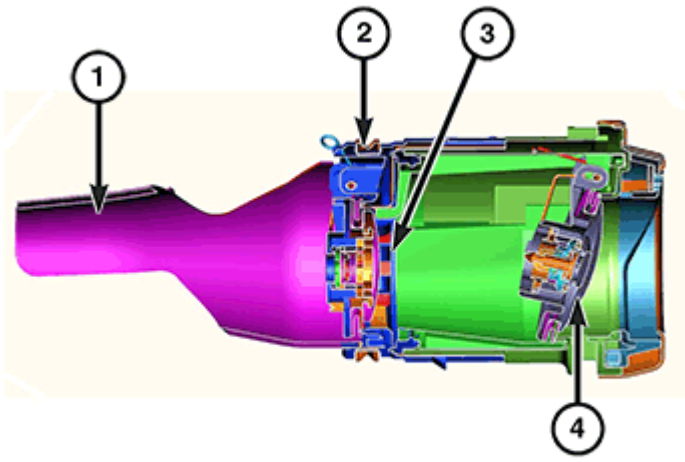
HARD TO FILL WITH FUEL

The components that are used for tank venting, and will be diagnosed in this procedure are similar for every non PHEV vehicle. The only differences are the locations of the components within the system on each vehicle. The graphics below are intended for reference and depicts the **general configuration** of the system components for vehicles with gas engines.



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CALL-OUT	DESCRIPTION
1	Grade Vent Valve (GVV)
2	Auxiliary Fuel Delivery Pump/Level Sensor Module



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NOTE

Capless Fuel Unit - Image is for reference only (if equipped).

CALL OUT	DESCRIPTION
1	Nozzle Flow Guide
2	Capless Unit
3	Internal Door
4	External Door

The following diagnostic procedure should help to determine which issue is causing the hard to fill condition.

DIAGNOSTIC PROCEDURE:

1. Ask the customer the following questions:

1. Is the condition present at only one station or multiple gas stations?
2. Does the nozzle turn off immediately after a few seconds or after a few gallons?
3. If you pull the nozzle out slightly or turn the nozzle to different positions does the early shut off condition stop?

Fuel Injectors

FUEL INJECTORS

REMOVAL

WARNING

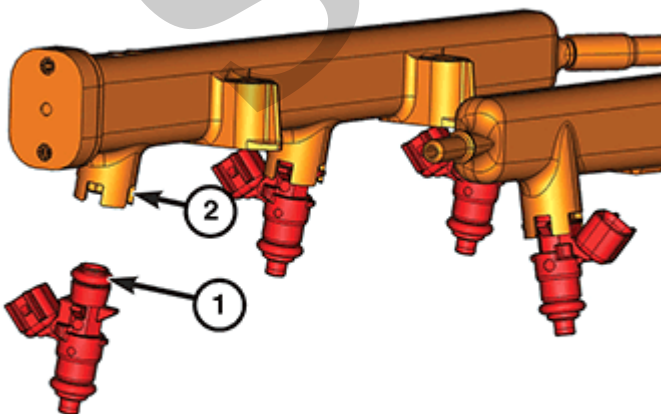
The fuel system is under constant pressure even with engine off. Before servicing the fuel rail, fuel system pressure must be released.

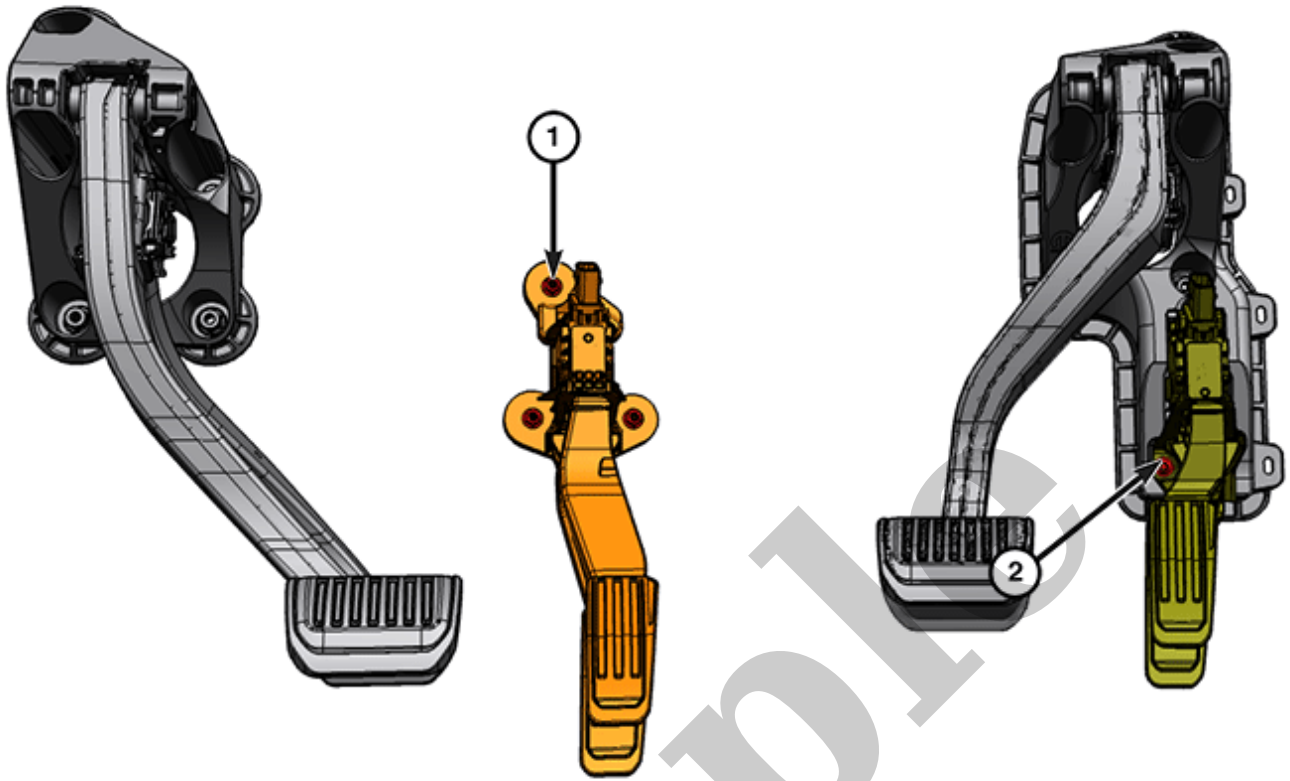
1. Release fuel system pressure ([Refer to Engine/Fuel System/Standard Procedure](#))([Refer To List 1](#)).

CAUTION

When removing the fuel rail from the lower intake manifold, one or more fuel injectors may remain in the intake manifold resulting in residual fuel spilling onto the engine from the fuel rail.

2. Remove the fuel rail ([Refer to Engine/Fuel System/RAIL\(S\), Fuel/Removal and Installation](#))([Refer To List 2](#)).





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CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Accelerator Pedal to Bulkhead Nuts	9 N·m (80 In. Lbs.)	-
2	Accelerator Pedal to Bracket Bolt (RHD)	5 N·m (44 In. Lbs.)	-

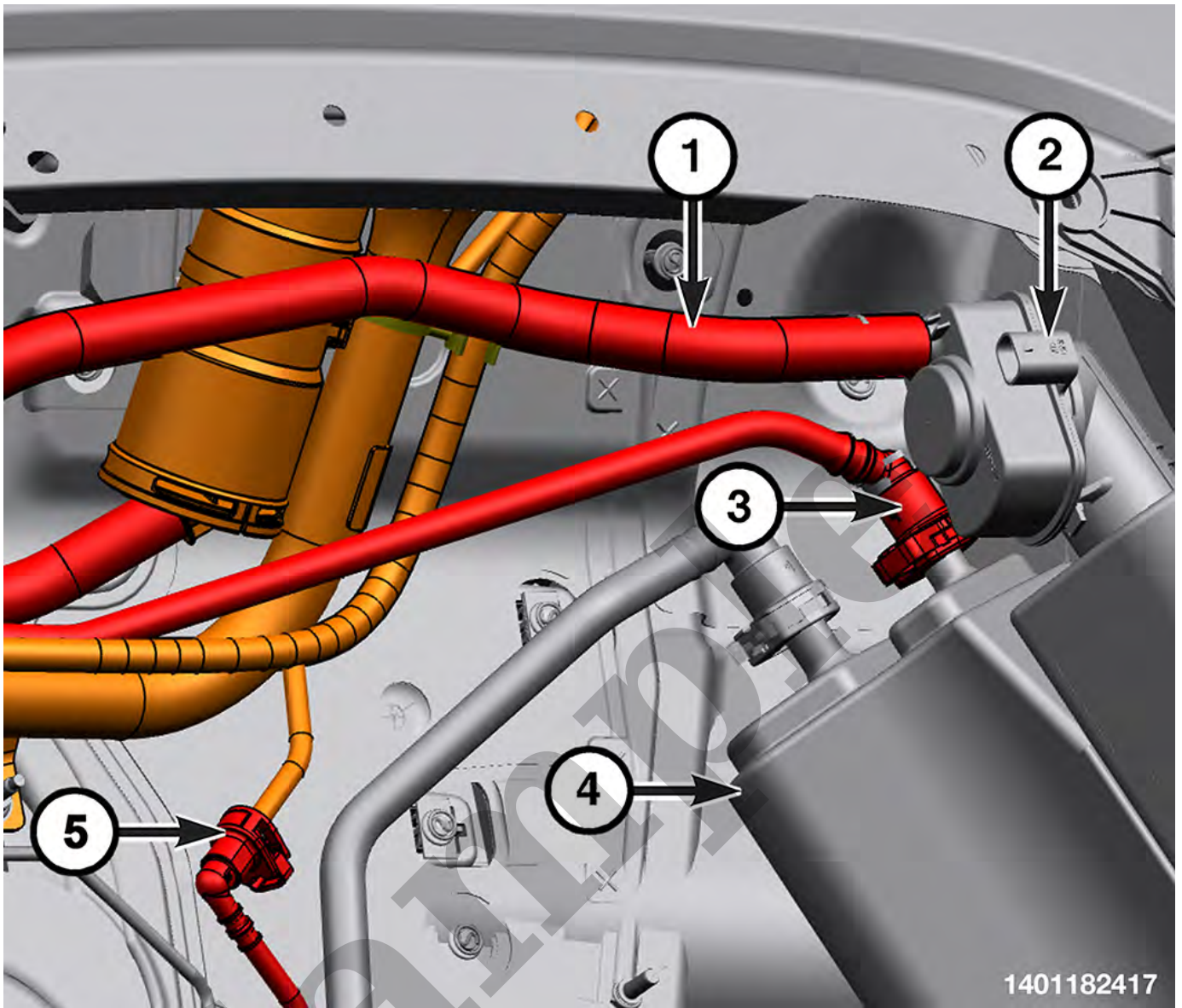
Refer To List:

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](#)

List 2

- [09 - Engine, 2.0L / Fuel System / RAIL\(S\), Fuel / Removal and Installation](#)
- [09 - Engine, 3.6L / Fuel System / RAIL\(S\), Fuel / Removal and Installation](#)
- [09 - Engine, 5.7L / Fuel System / RAIL\(S\), Fuel / Removal and Installation](#)



1 - Fuel Vapor Filter Hose

2 - Evaporative System Integrity Monitor (ESIM)

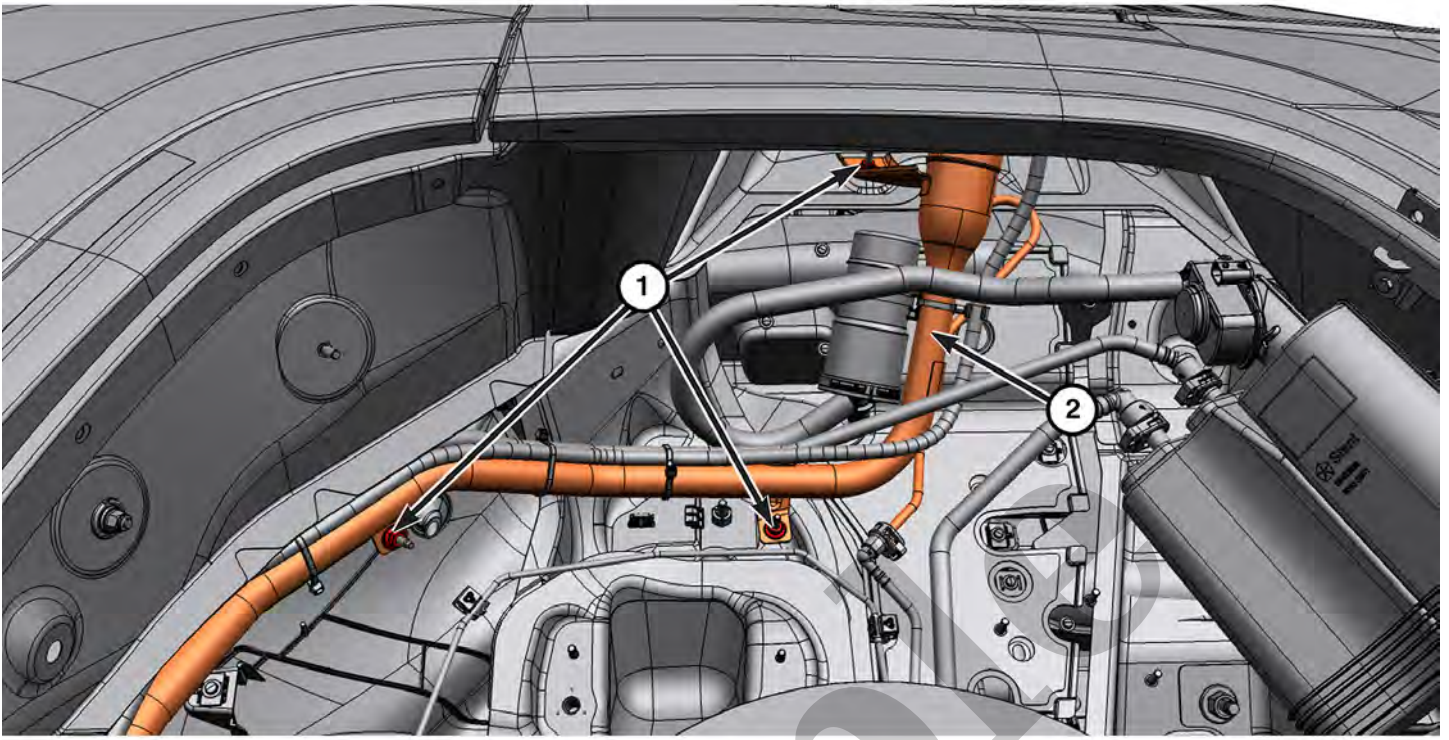
3 - Fuel Vapor Tube Quick Connect Fitting

4 - Vapor Canister

5 - Fuel Vapor Recirculation Line Quick-Connect Fitting

6. Disconnect the fuel vapor filter hose from the ESIM.

7. Disconnect the fuel vapor tube quick connect fitting from the vapor canister ([Refer to Engine/Fuel System/Standard Procedure](#))([Refer To List 2](#)).



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

YOUR CURRENT VEHICLE

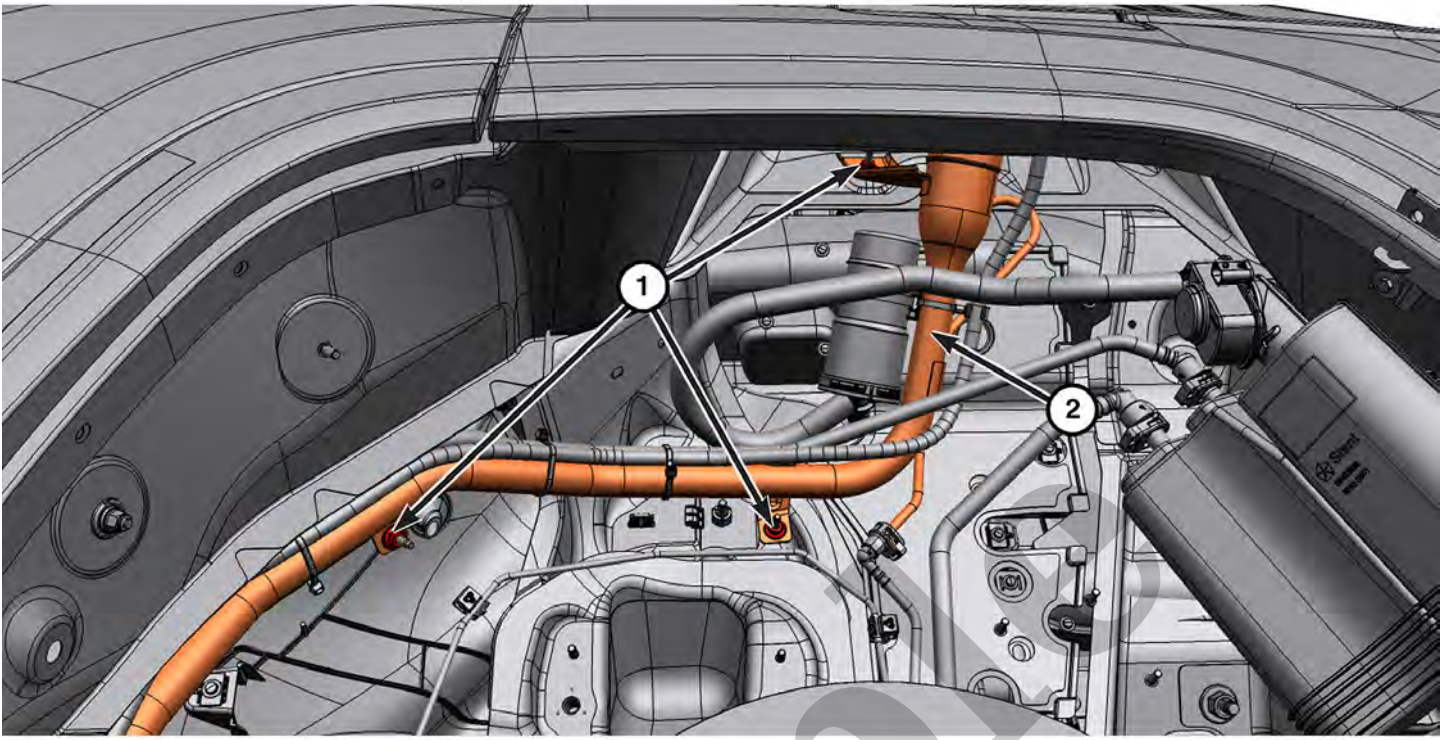
Accelerator Pedal - Fixed Position Pedal

ACCELERATOR PEDAL - FIXED POSITION PEDAL

REMOVAL

CAUTION

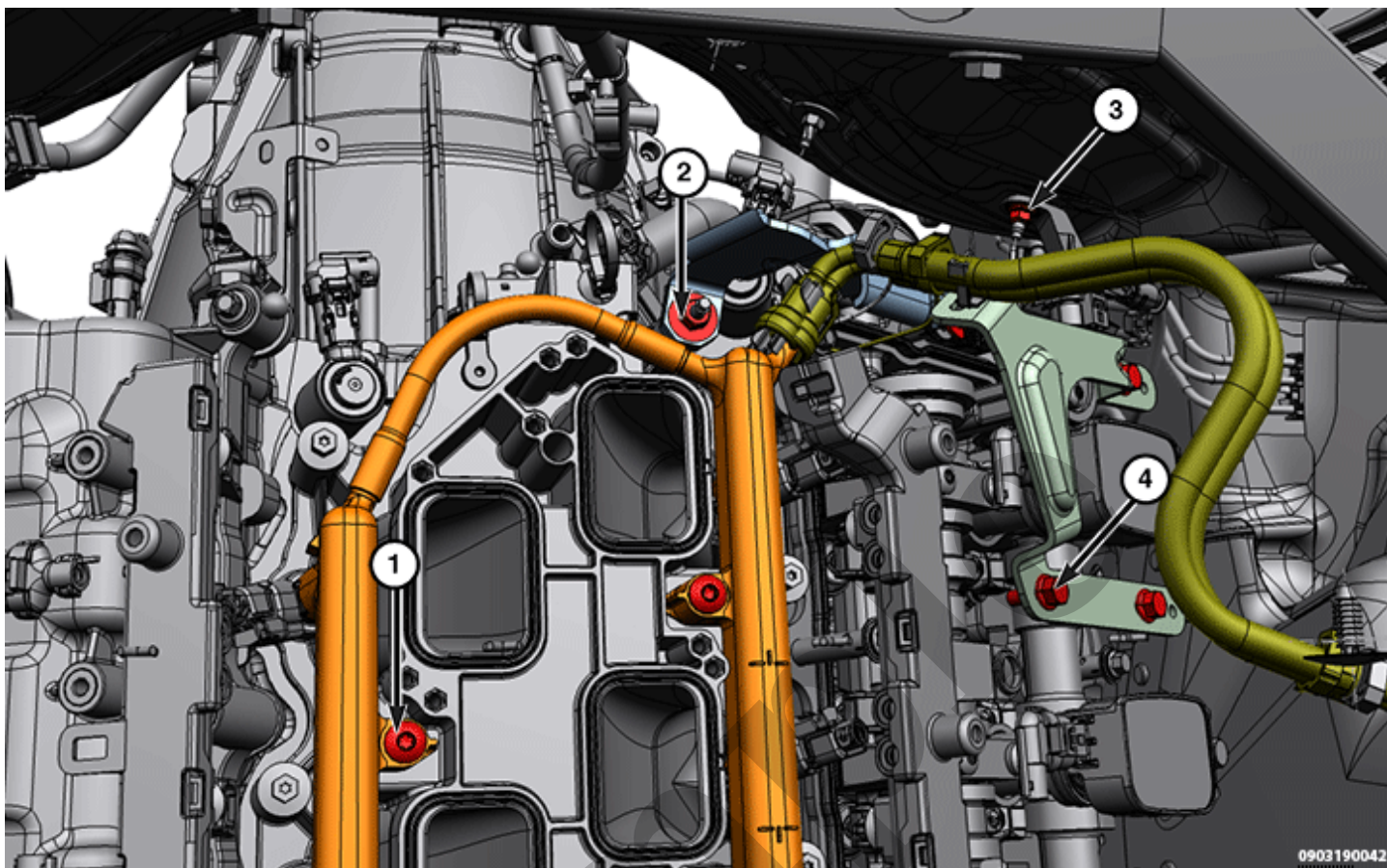
Do not attempt to separate or remove the Accelerator Pedal Position Sensor (APPS) from the accelerator pedal assembly. The APPS and the accelerator pedal is replaced as an assembly. If the sensor is removed from the pedal, the electronic calibration may be destroyed.



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

TORQUE SPECIFICATIONS - FUEL SYSTEM



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Fuel Rail to Lower Intake	7 N·m (62 In. Lbs.)	-
2	Fuel Bundle Shield To Lower Intake	9 N·m (80 In. Lbs.)	-
3	Fuel Line Bracket to Bulkhead	9 N·m (80 In. Lbs.)	-
4	Fuel Bundle Bracket To Valve Cover	9 N·m (80 In. Lbs.)	-