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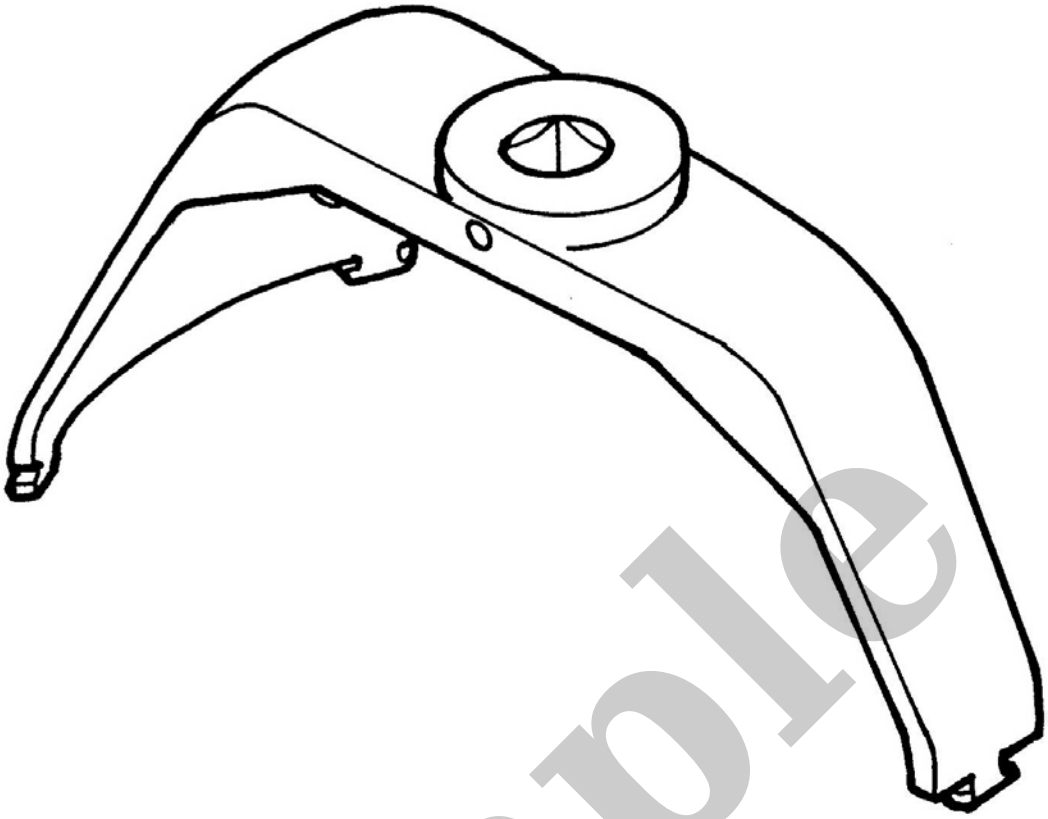
2013 Jeep CHEROKEE Service Manual

Go to manual page



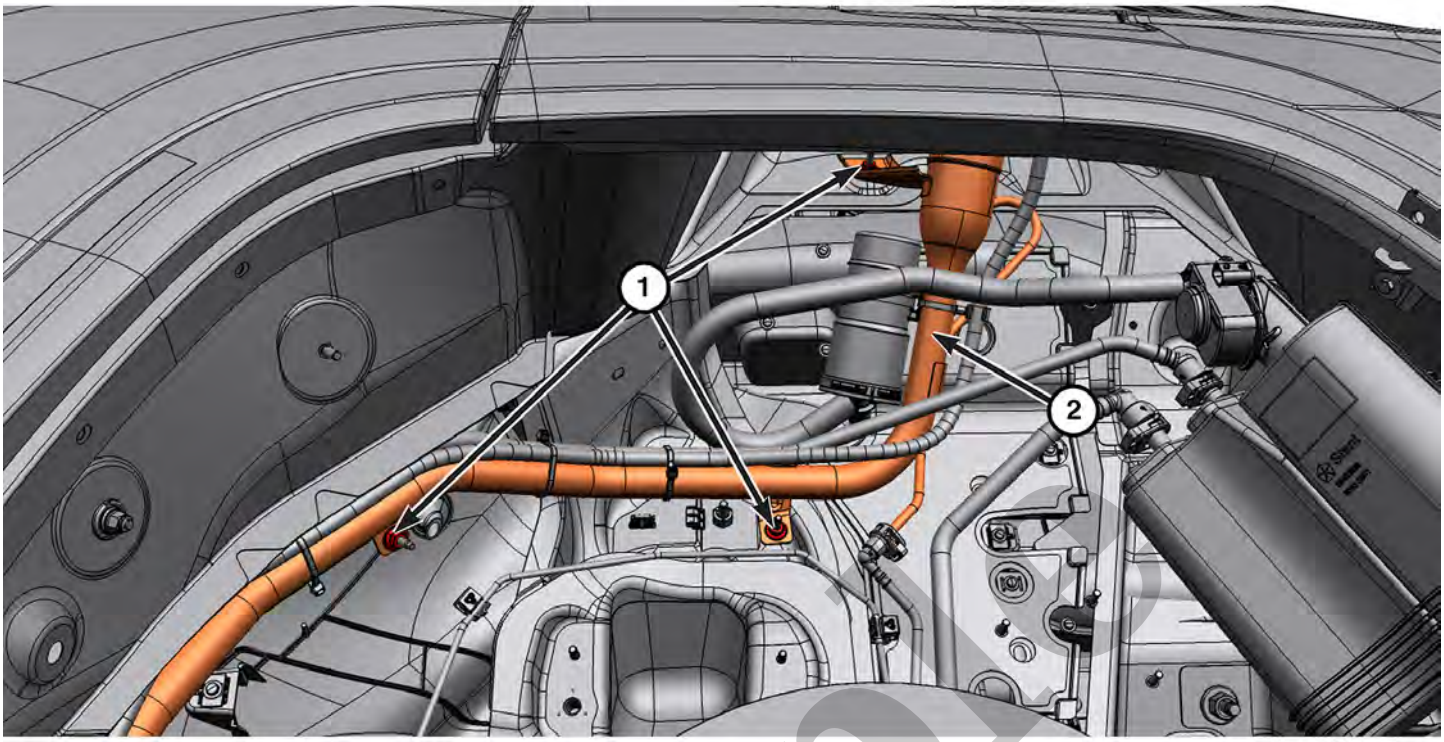
into the notches on the outside edge of the main fuel pump module lock ring.

9. Install a ½ inch drive breaker bar onto the SAE Fuel Pump Lock Ring Wrench.

NOTE

The main fuel pump module will spring up slightly when lock ring is removed.

10. Rotate the breaker bar counterclockwise and remove the main fuel pump module lock ring lock ring.



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

4.	Fuel Tank Filler Tube
5.	Fuel Tank
6.	Fuel Rail
—	Fuel Pump Control Module

OPERATION: Fuel is picked up in the fuel tank by the fuel pump module. This module is located inside of the fuel tank. A fuel return system is provided within the fuel pump module using check valves. A separate fuel return line from the engine to the tank is not used. The fuel pressure regulator and the main fuel filter are combined within the fuel pump module. There is no fuel filler cap on this vehicle, it is equipped with a cap-less fuel system.

Fuel Level Sensor

Component Index

The fuel gauge sending unit is attached to the side of the fuel pump module. The fuel gauge sending unit consists of a float arm and a variable resistor track (card).

Fuel Pump Control Module

Component Index

The fuel pump control module is mounted inside the right rear wheel well. The fuel pump control module is responsible for supply and regulation of voltage to the fuel pump relay and the fuel pump.

Fuel Pump Module

Component Index

The fuel pump module is mounted inside the fuel tank and contains the following components:

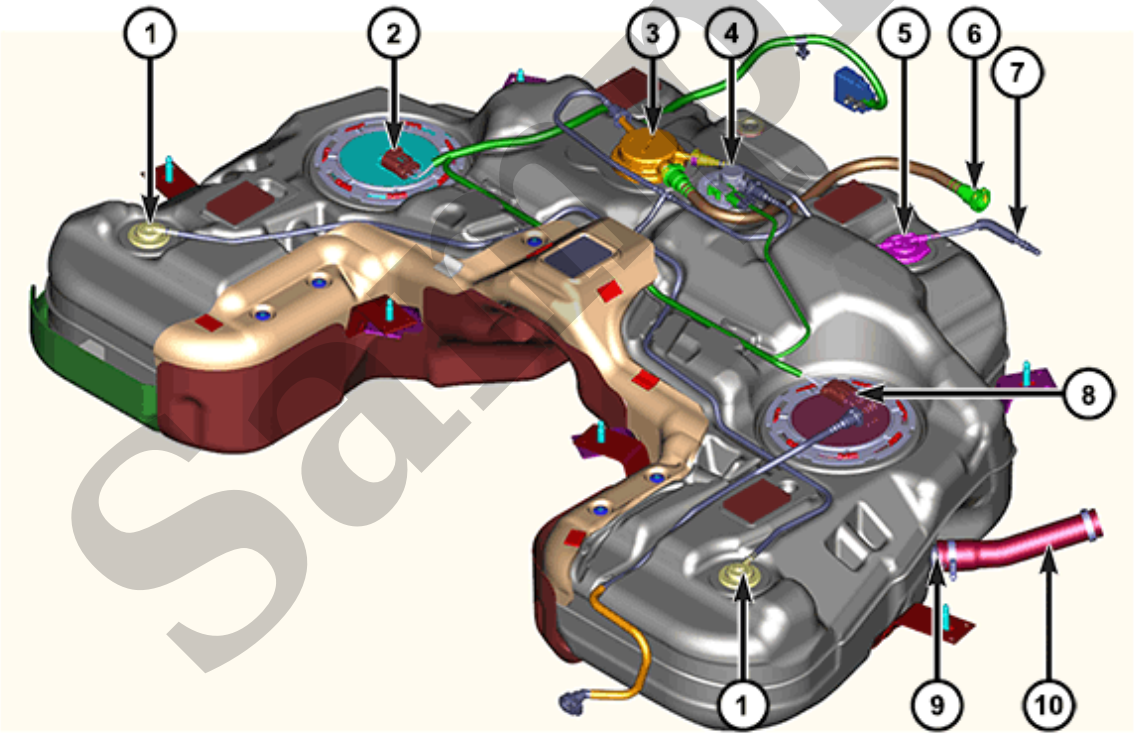
- Mounting flange
- Electric fuel pump
- Fuel pump reservoir
- Inlet strainer
- Fuel pressure regulator
- Fuel level sending unit
- Fuel filter

YOUR CURRENT VEHICLE

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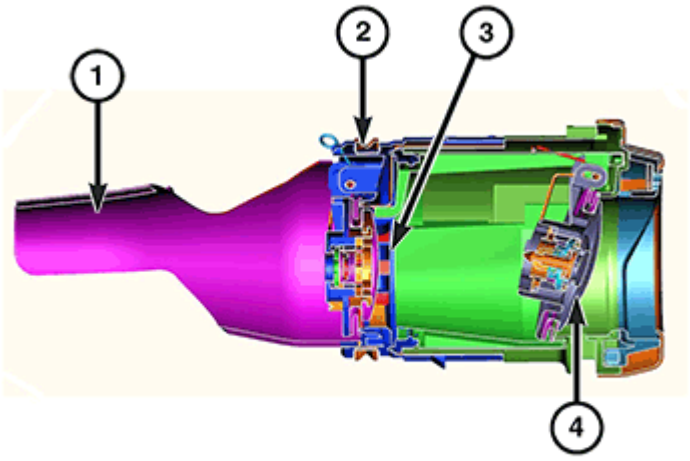
CALL-OUT	DESCRIPTION
1	Grade Vent Valve (GVV)
2	Auxiliary Fuel Delivery Pump/Level Sensor Module



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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:

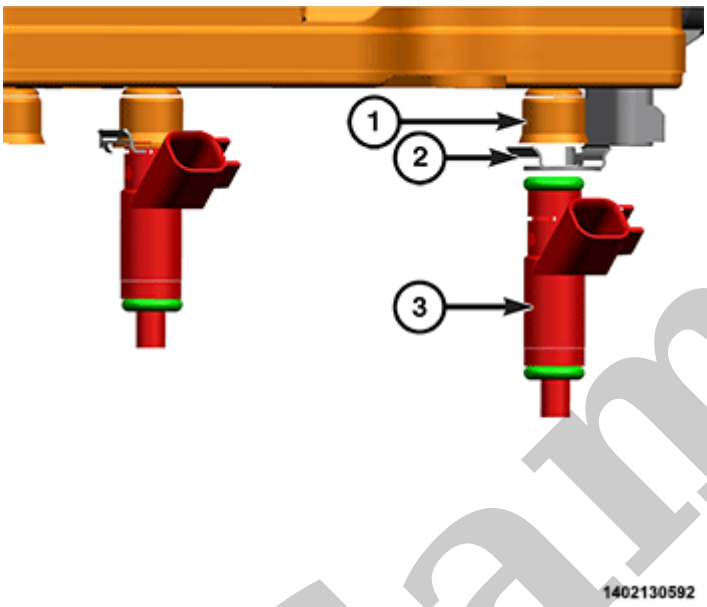
1. Ask the customer the following questions:
    1. Is the condition present at only one station or multiple gas stations?
    2. Does the nozzle turn off immediately after a few seconds or after a few gallons?
    3. If you pull the nozzle out slightly or turn the nozzle to different positions does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

YOUR CURRENT VEHICLE

Fuel Injectors

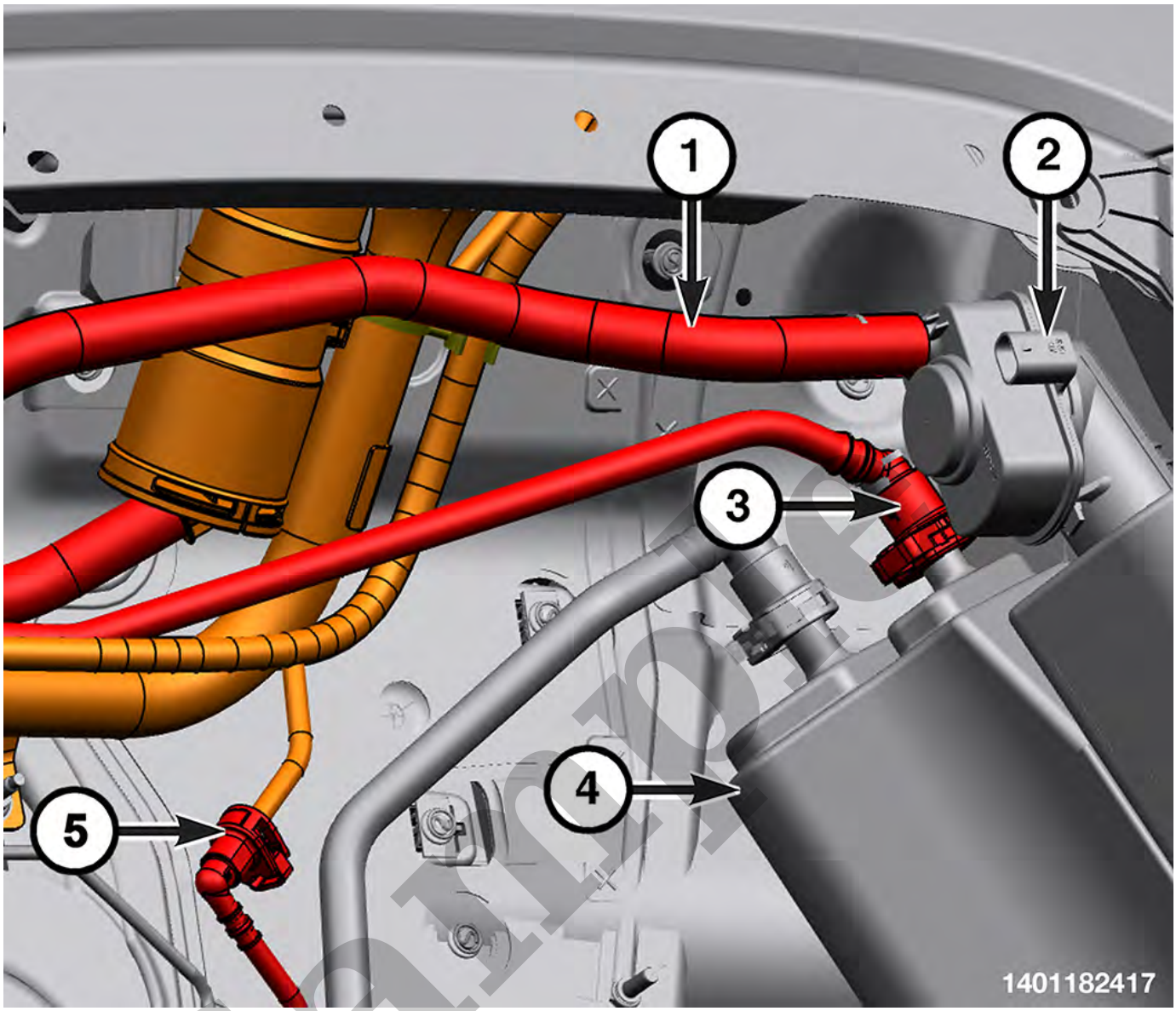
FUEL INJECTORS

REMOVAL



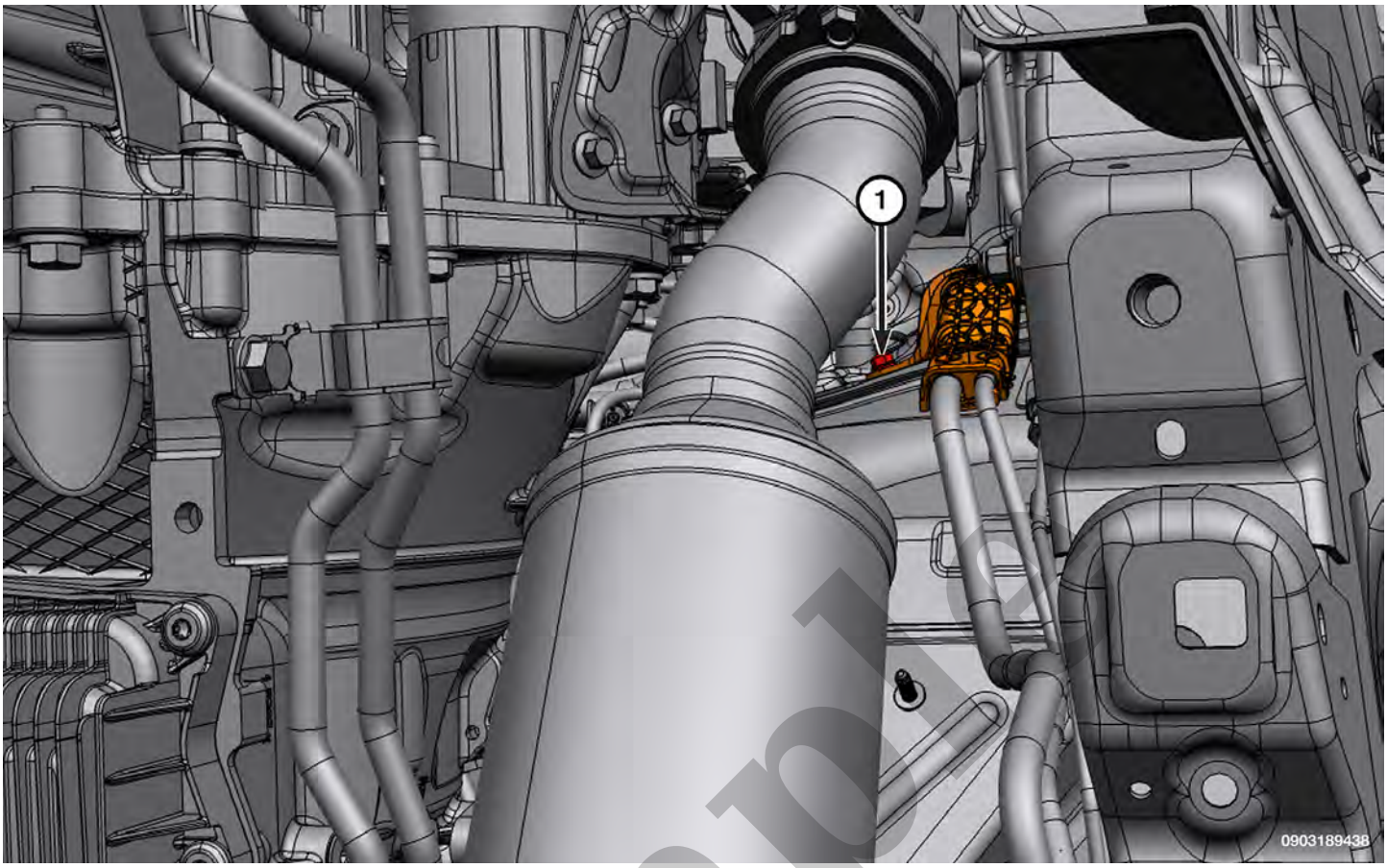
1 - Fuel Rail
2 - Fuel Injector Retaining Clip
3 - Fuel Injector

1. Remove the fuel rail assembly (Refer to Engine/Fuel System/RAIL(S), Fuel/Removal and Installation)(Refer To List 1).
2. Using suitable pliers, remove the fuel injector retaining clip.
3. Remove the fuel injector from the fuel rail using a side to side motion while pulling the injector out of the fuel rail assembly.



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).



CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
1	Fuel Line Bracket to Bulkhead	**9 N·m (80 In. Lbs.)**	–

CALLOUT	DESCRIPTION	SPECIFICATION	COMMENTS
–	Accelerator Pedal to Bulkhead Nuts	**9 N·m (80 In. Lbs.)**	–
–	Accelerator Pedal to Bracket Bolt (RHD)	**5 N·m (44 In. Lbs.)**	–
–	Fuel Rail Bolts	**8 N·m (71 In. Lbs.)**	–

Refer To List:

List 1

- 23 - Body / Exterior / HOUSING, Charging Port / Removal and Installation
- 23 - Body / Exterior / HOUSING, Fuel Fill / Removal and Installation