

Reference:

Date:

ITB18-024

July 10, 2018

VOLUNTARY SERVICE CAMPAIGN Q50 AND Q60 WITH 2.0L ENGINE; LOW PRESSURE FUEL LINE

CAMPAIGN ID #: P8314
APPLIED VEHICLES: 2016-2018 Q50 (V37)
2017-2018 Q60 (V37)
APPLIED ENGINE: 2.0L Turbo Gasoline Engine

**Check Service COMM or Dealer Business Systems (DBS)
National Service History to confirm campaign eligibility.**

INTRODUCTION

Infiniti is conducting this voluntary service campaign on certain specific model year 2016-2018 Q50 and 2017-2018 Q60 vehicles equipped with the 2.0L turbo gasoline engine to replace the low pressure fuel line. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Infiniti has assigned identification number P8314 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

Dealers are to repair vehicles falling within range of this campaign that enter the service department. This includes vehicles purchased from private parties, vehicles presented by transient (tourists) owners, and vehicles in a dealer's inventory.

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

SERVICE PROCEDURE

Removal: Low Pressure Fuel Line

IMPORTANT: Follow all warnings, cautions, and notes in the Electronic Service Manual (ESM) when working on the high pressure fuel system, such as a high pressure fuel pump.

1. Set the vehicle on a lift.
2. Release fuel pressure in the fuel lines:
 - a. Remove the battery cover.



Figure 1

- b. Remove the fuse and fusible link cover, and then remove the 15 amp fuse (for fuel pump) where shown in Figure 2.

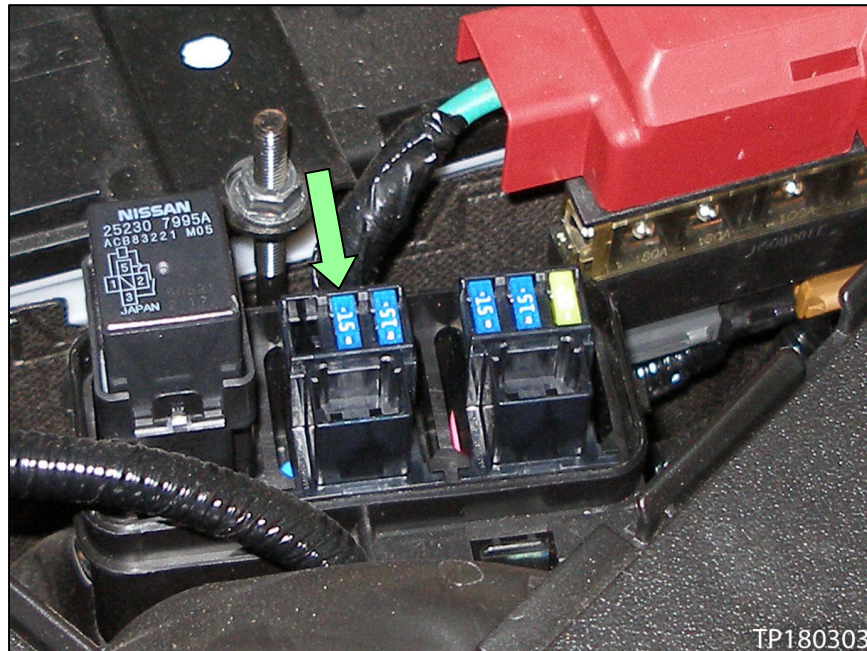


Figure 2

- c. Start the engine, and then let it idle until it stops.
NOTE: Revving the engine a few times will make the engine stop sooner.
 - d. After the engine stops, crank the engine a few times to release all fuel pressure.
 - e. Turn the engine/ignition OFF.
3. Remove the engine cover.
 - The engine cover is held on with rubber insulators. Grab one corner, and then carefully pull off.

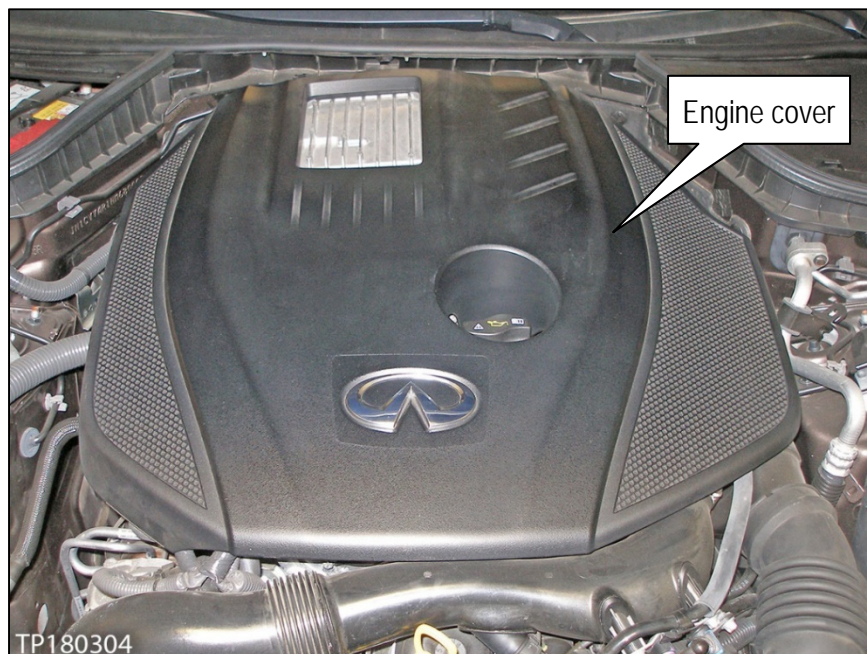


Figure 3

4. Move the ECM to the side:
 - a. Unfasten the two (2) electrical harness clips (see circles in Figure 4).
NOTE: The electrical harness clips will be reused.
 - b. Unfasten the ECM from its four (4) clips (see arrows in Figure 4).
 - c. Carefully lift and move the ECM, still connected, to the passenger side of the engine.

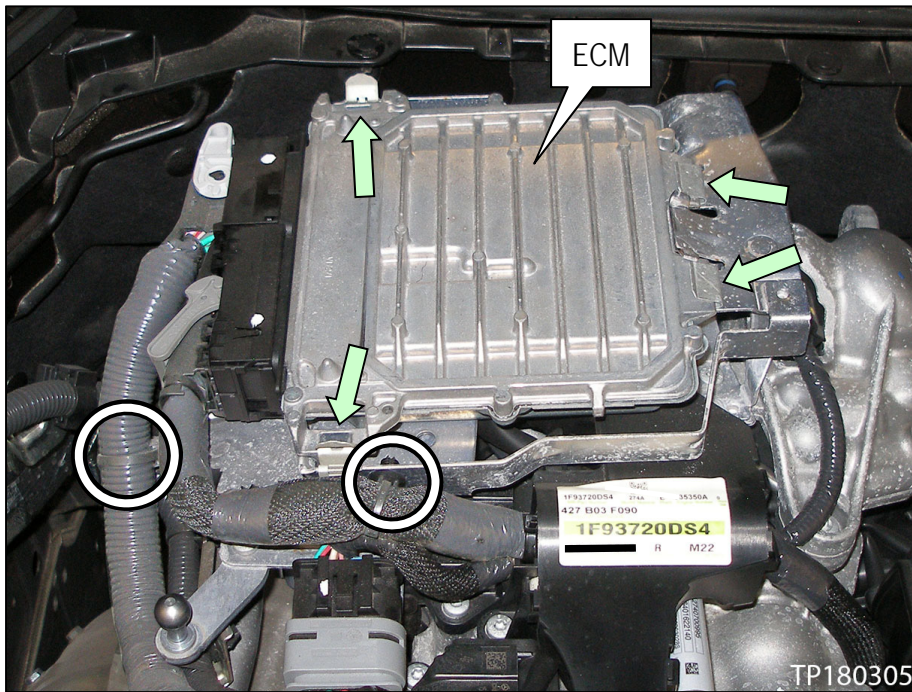


Figure 4

5. Remove the ECM bracket.
 - The ECM bracket is held on with rubber insulators. Grab one corner, and then carefully pull off.

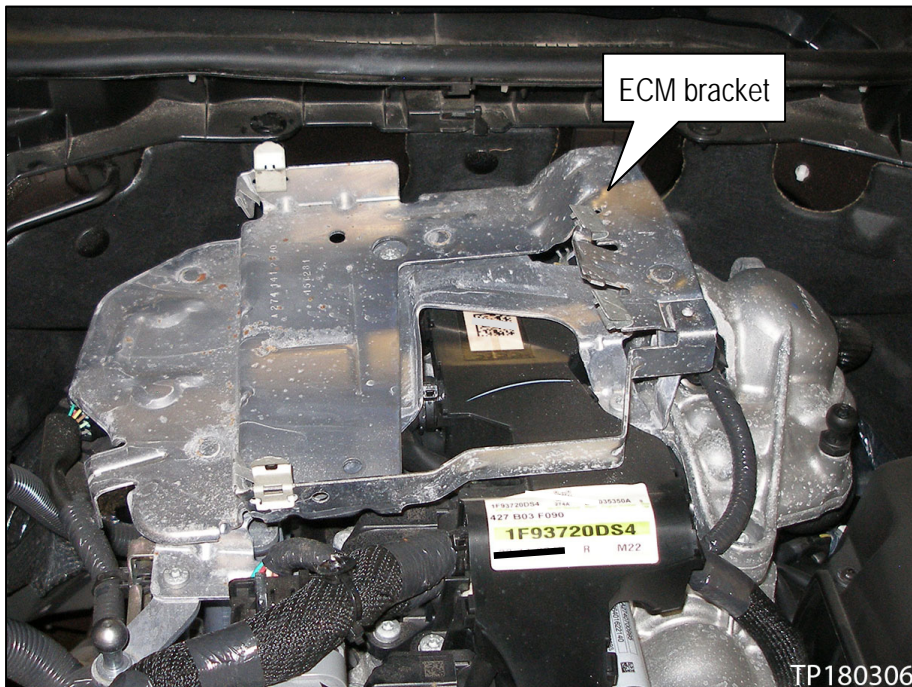


Figure 5

- Remove the six (6) ECM bracket 2 T30 bolts, and then carefully move the ECM bracket 2 partially toward the passenger side of the engine.

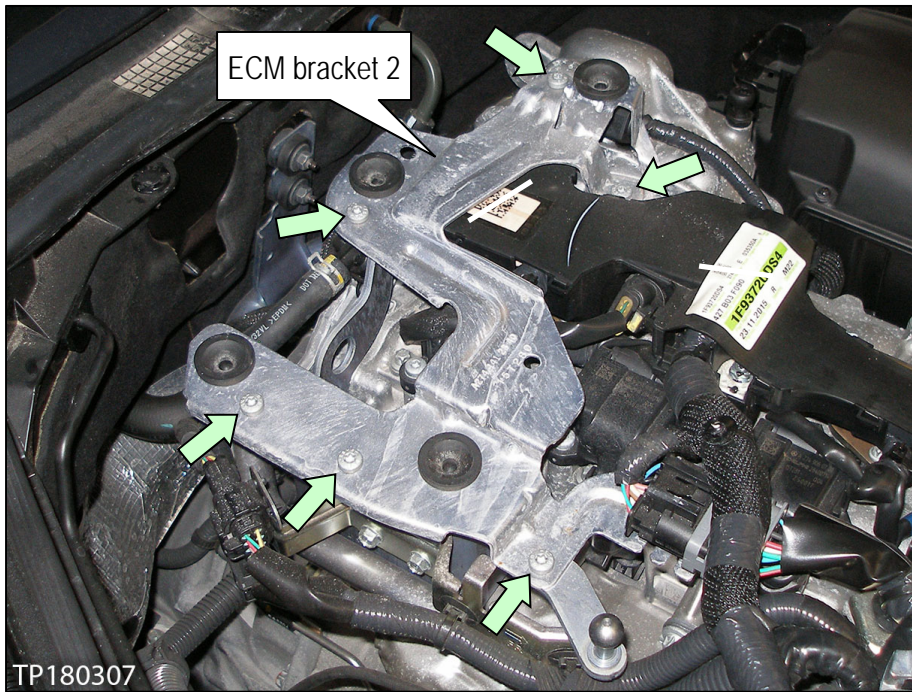


Figure 6

- Remove the two (2) electrical harness protector T30 bolts.

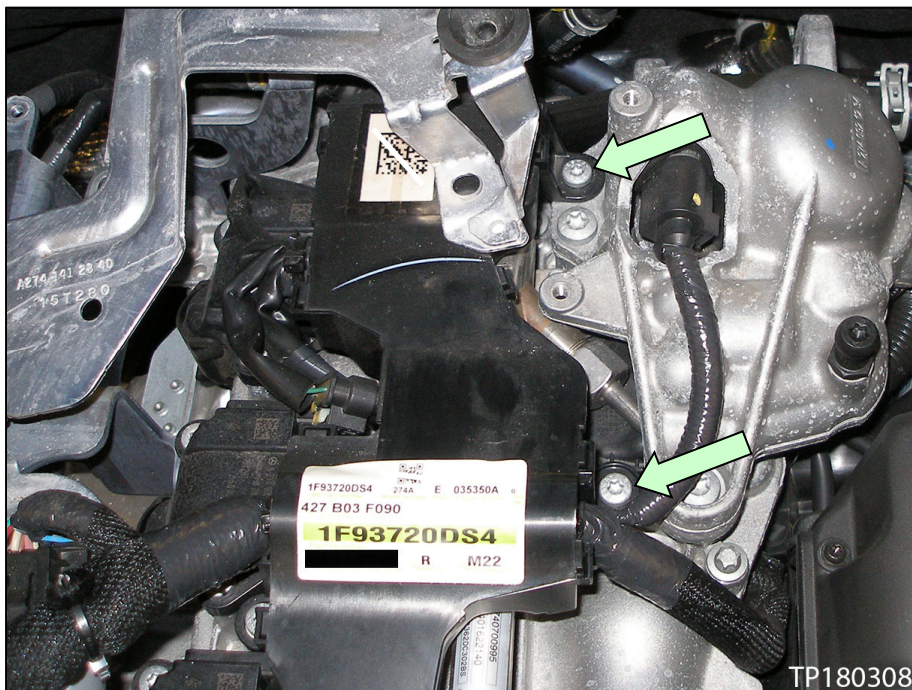


Figure 7

8. Disconnect the high pressure fuel pump electrical connector.
 - Carefully use a pick or similar tool to unlatch the lock, and then pull off the connector.

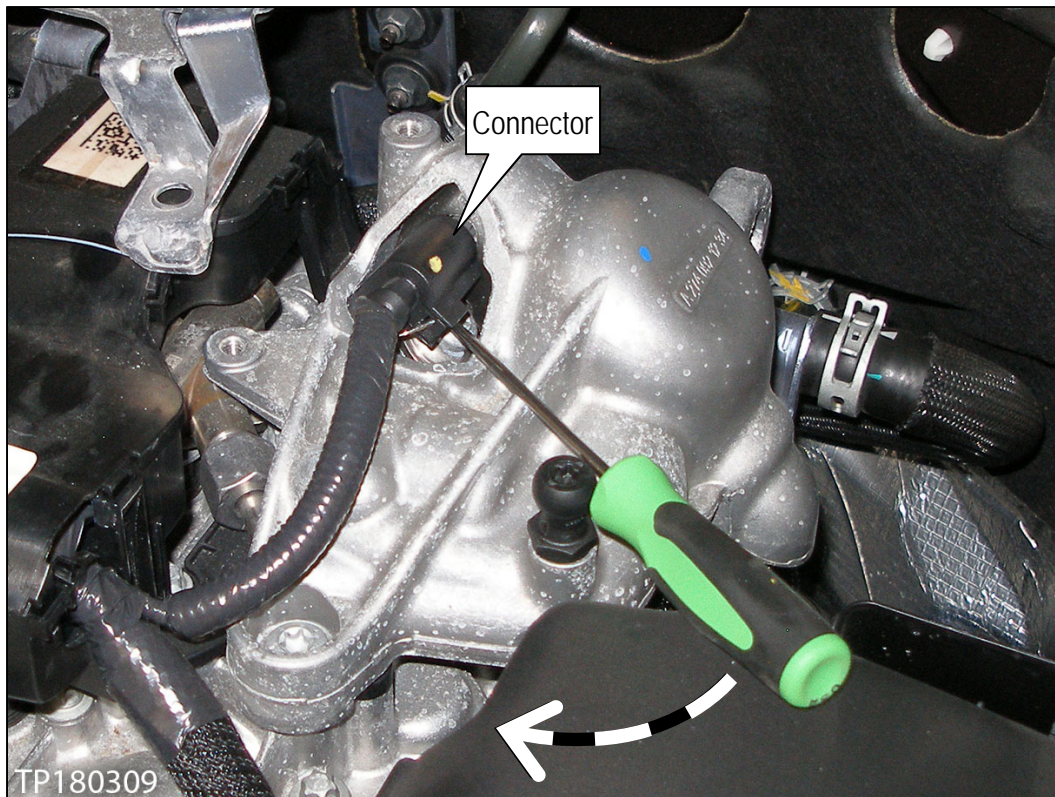


Figure 8

9. Remove the four (4) shield T45 bolts, and 10 mm bolt (see Figures 9 and 10).
- Arrows = T45 bolts, circle = 10 mm bolt.
 - Remove the shield by holding the electrical harness protector toward the passenger side.

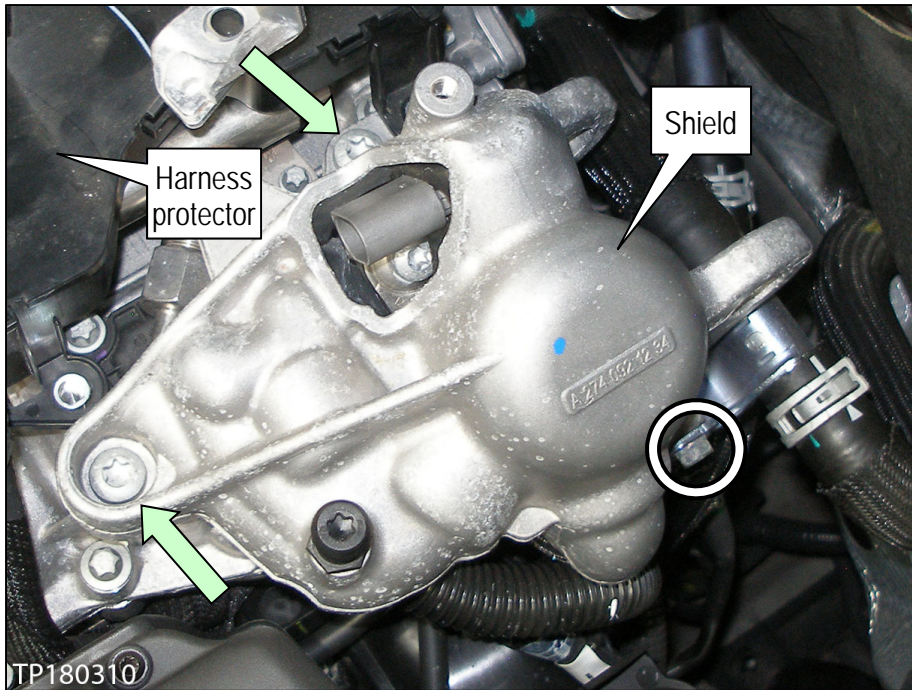


Figure 9

- Two of the T45 bolts are located behind the shield (between the engine and engine wall).
 - Figure 10 shows the engine out of the vehicle. This is for viewing purposes only.



Figure 10

10. Remove the high pressure fuel pump insulator.

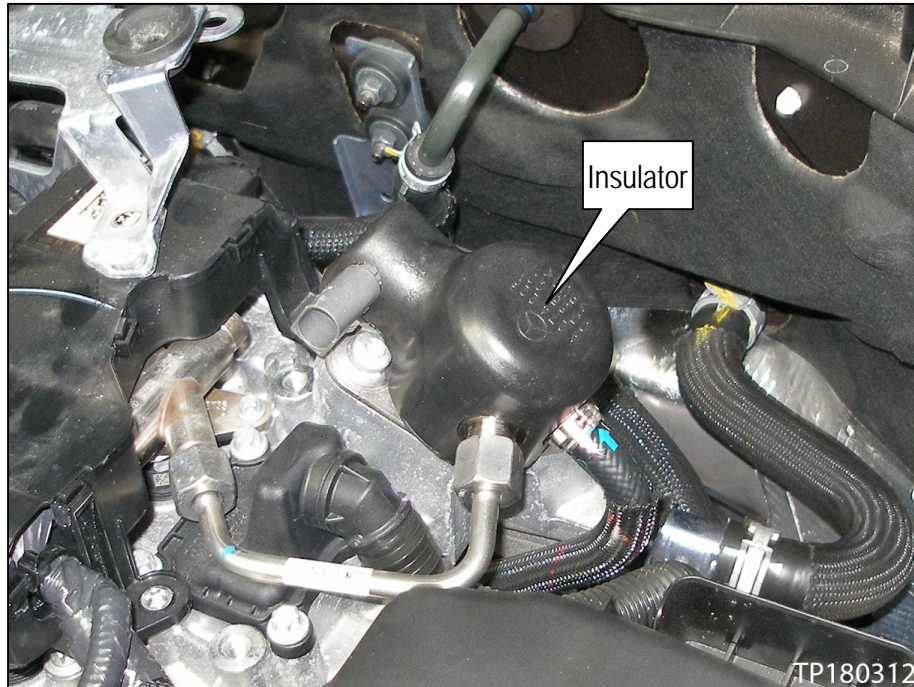


Figure 11

11. At this time, closely observe the routing of the low pressure fuel line from the top side of the vehicle.

CAUTION: It is important to know the correct routing of the low pressure fuel line. A misrouted fuel line may cause it to contact other component parts.

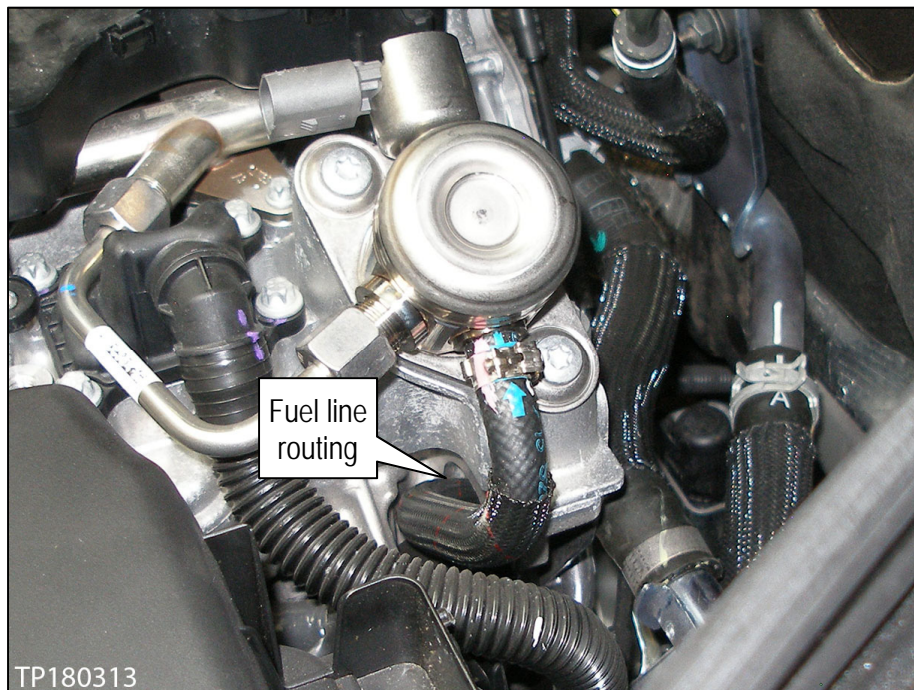


Figure 12

12. Unfasten the low pressure fuel line upper clamp.

- This is a new style clamp. Go to page 18 for further detail.
- **Do not disconnect the low pressure fuel line from the high pressure fuel pump at this time.**
- Place a shop rag under the end of the low pressure fuel line (this is to help catch any residual fuel when disconnecting it).

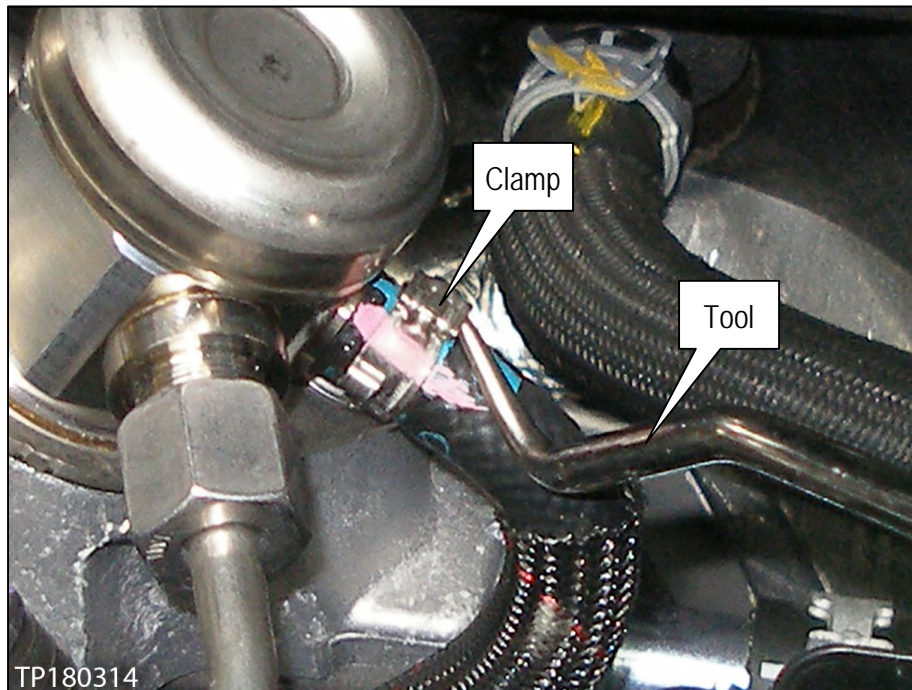


Figure 13

13. Raise the vehicle on a lift, and then remove the floor under cover and the floor under side cover.



Figure 14

- At this time, closely observe the routing of the low pressure fuel line from underneath the vehicle.

NOTE: A bracket and some other parts were removed for better viewing only. These parts do not need to be moved for this procedure. Also refer to Figure 16 on the next page.

CAUTION: It is important to know the correct routing of the low pressure fuel line. A misrouted fuel line may cause it to contact other component parts.

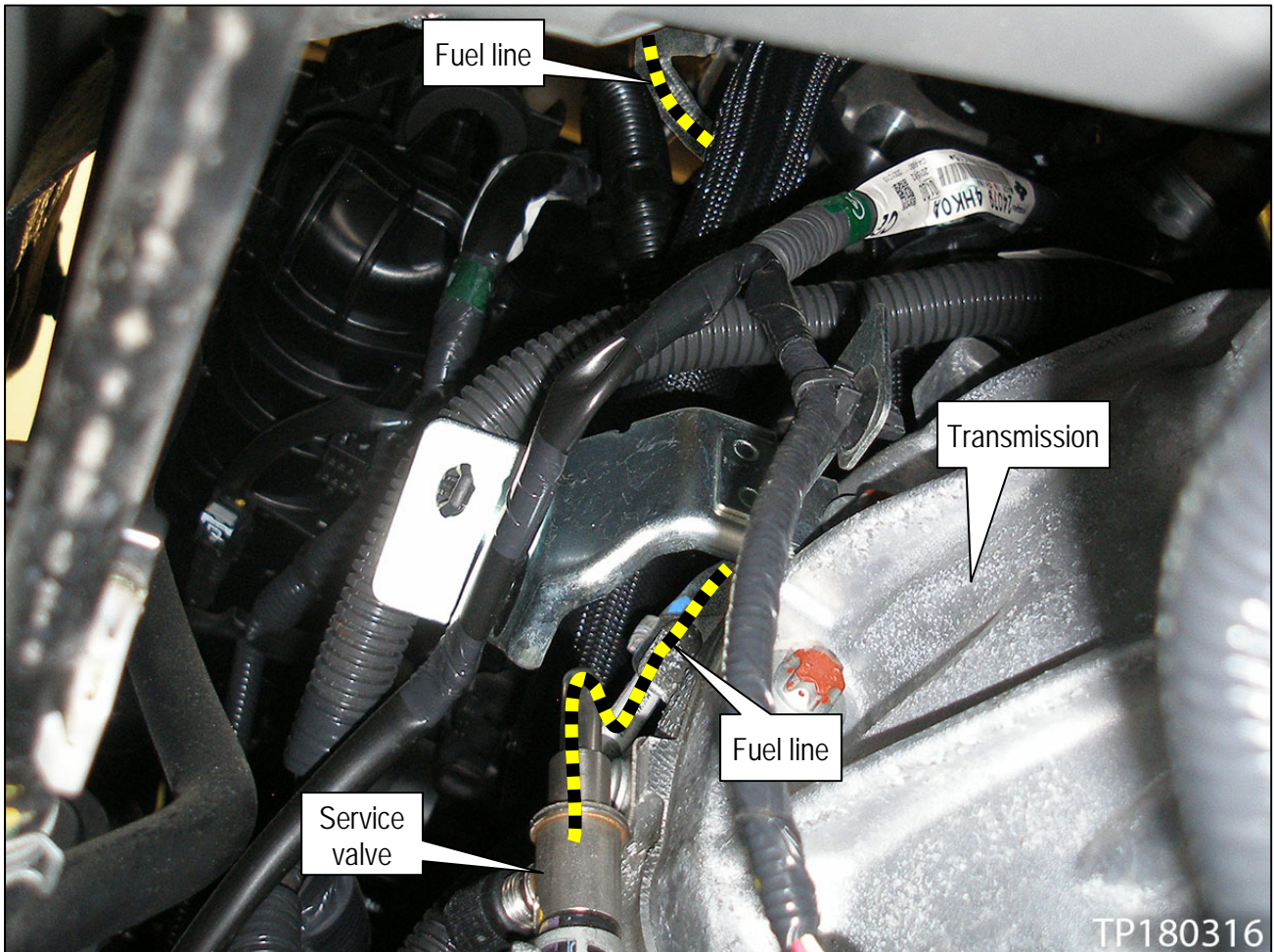


Figure 15

Figure 16 shows the engine out of the vehicle. This is for viewing purposes only.

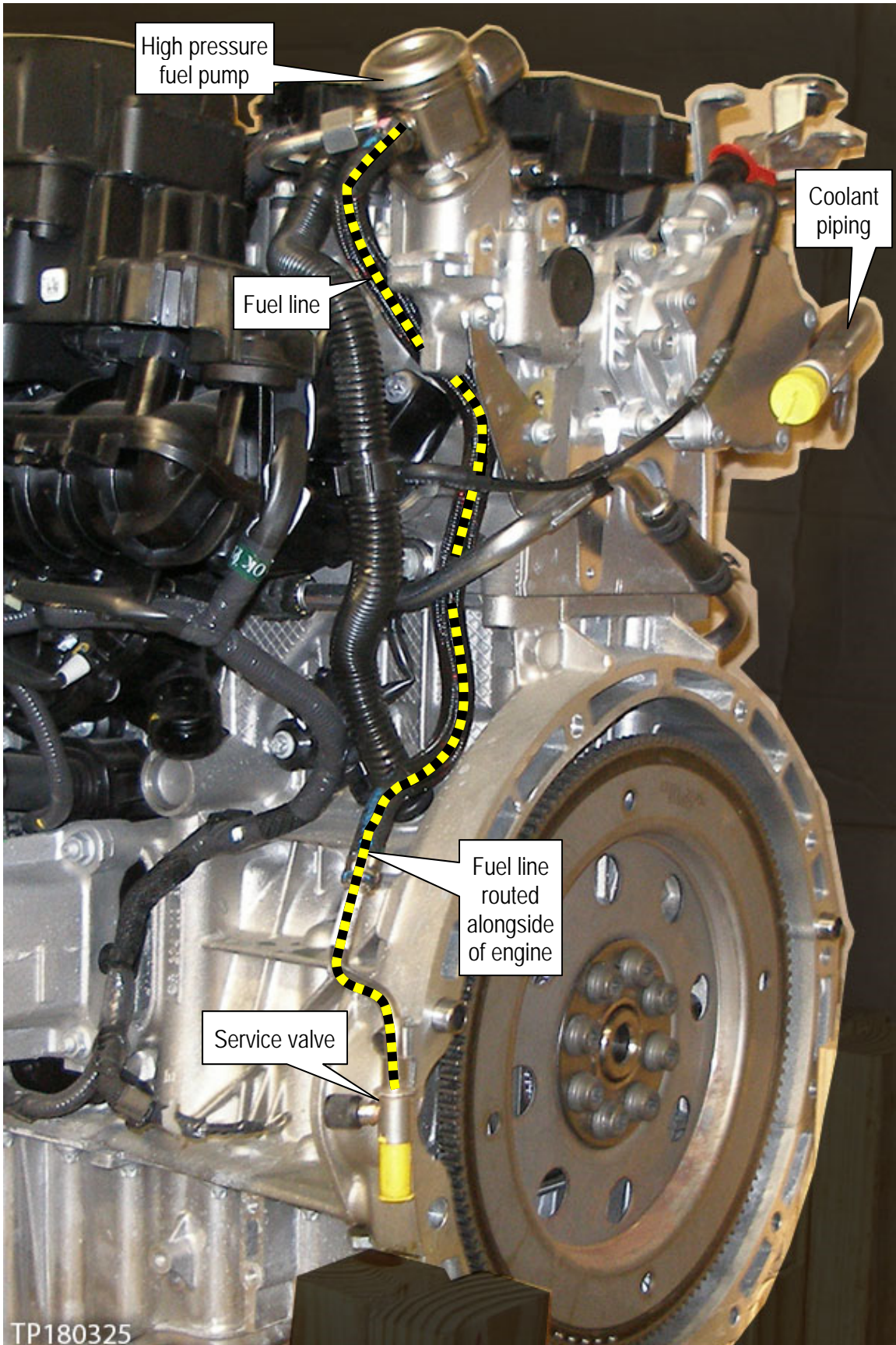


Figure 16

14. Place a suitable drip pan under the area of the low pressure fuel line.
15. Properly clamp the fuel line with suitable clamping pliers.
 - This will prevent residual fuel leakage from the lower fuel line.
16. Unclamp (loosen) the clamp at the service valve and move it further down the lower fuel line.

NOTE: This clamp will be reused.

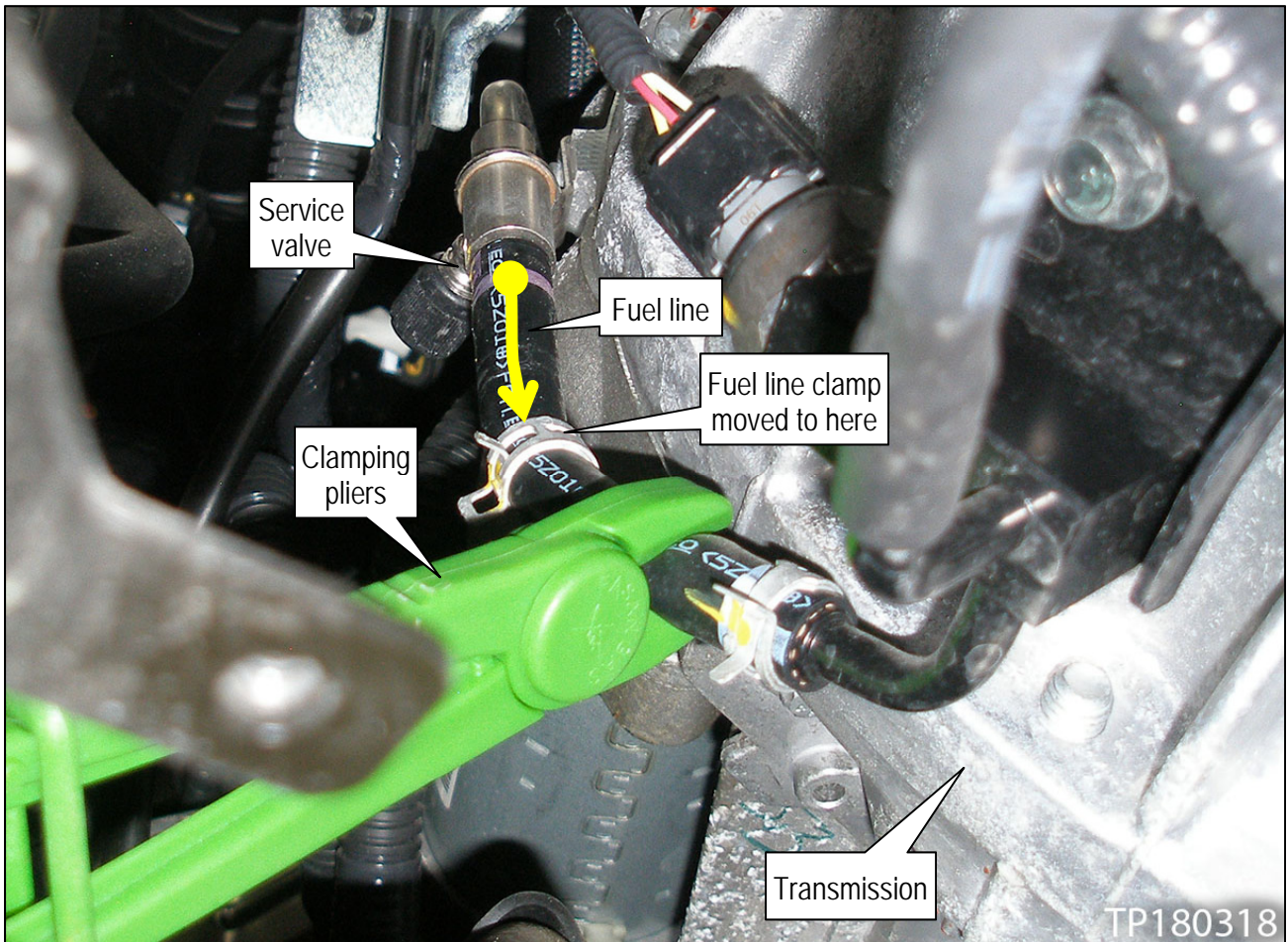


Figure 17

17. Disconnect the fuel line at the service valve.

WARNING: Some residual fuel may drain from the fuel line. Keep any fuel from contacting eyes and skin.

18. Lower the vehicle, and then disconnect the low pressure fuel line from the high pressure fuel pump.

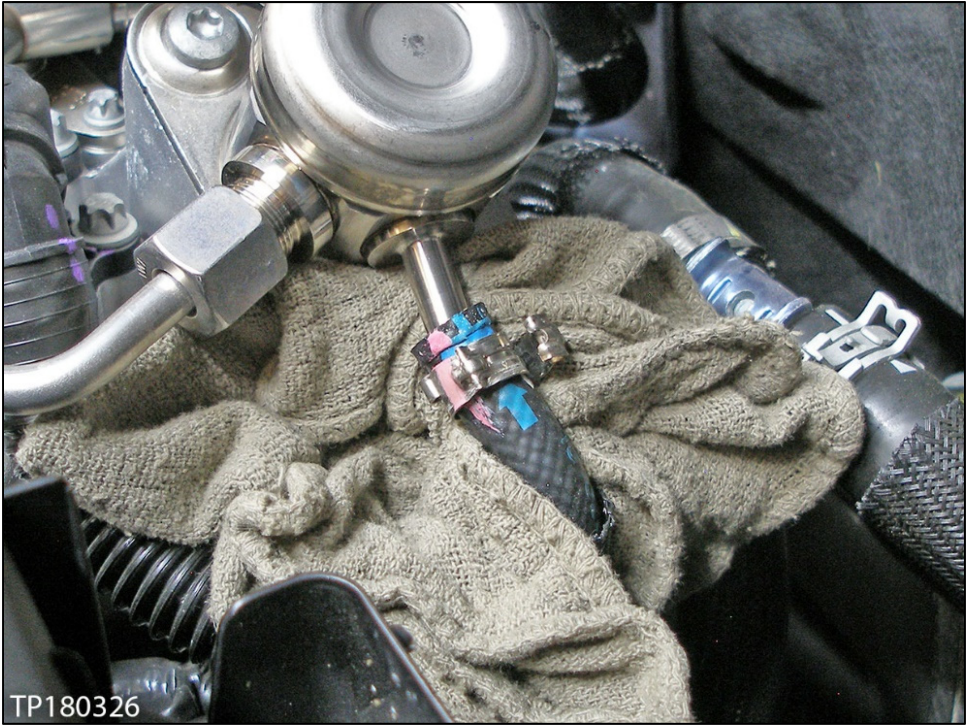


Figure 18

19. Raise the vehicle, and then remove the service valve bracket's E10 bolt.

NOTE: Figure 19 shows the lower fuel line still connected. It was disconnected previously during step 17.

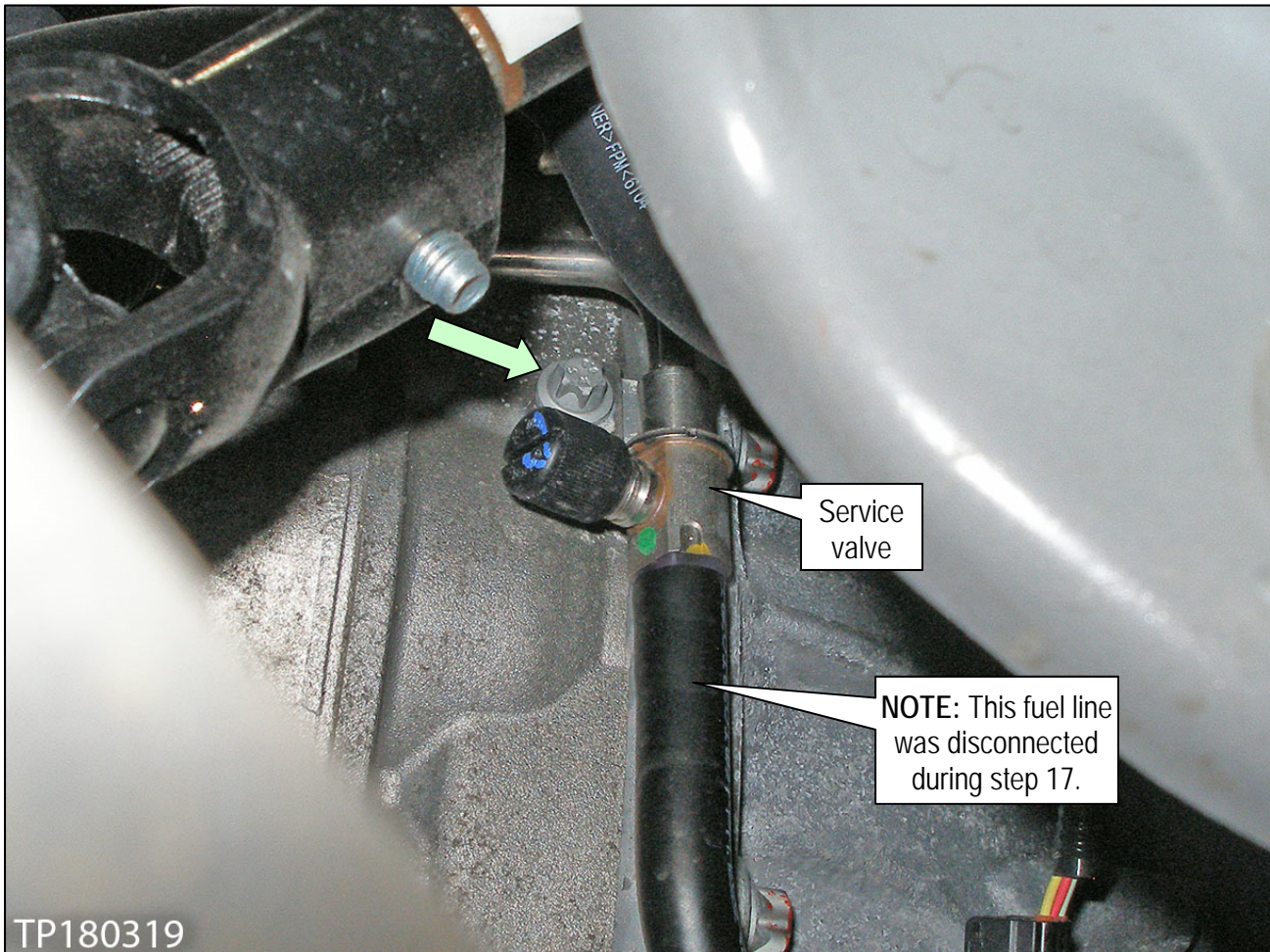


Figure 19

20. Remove the low pressure fuel line with service valve from the vehicle.

- Carefully pull out the low pressure fuel line with service valve from under the vehicle, making sure it does not "catch" on other components.

21. Unfasten the clamp, and then remove the low pressure fuel line from the service valve.
22. Install the **new** low pressure fuel line to the service valve:
 - a. Slide a new clamp on the end of the new low pressure fuel line that connects to the service valve.
 - The blue arrows on the low pressure fuel line will be pointing away from the service valve.
 - b. Line up the low pressure fuel line's blue mark with the service valve's black mark.

WARNING: Failure to properly install the low pressure fuel line and its clamps may cause fuel leakage.

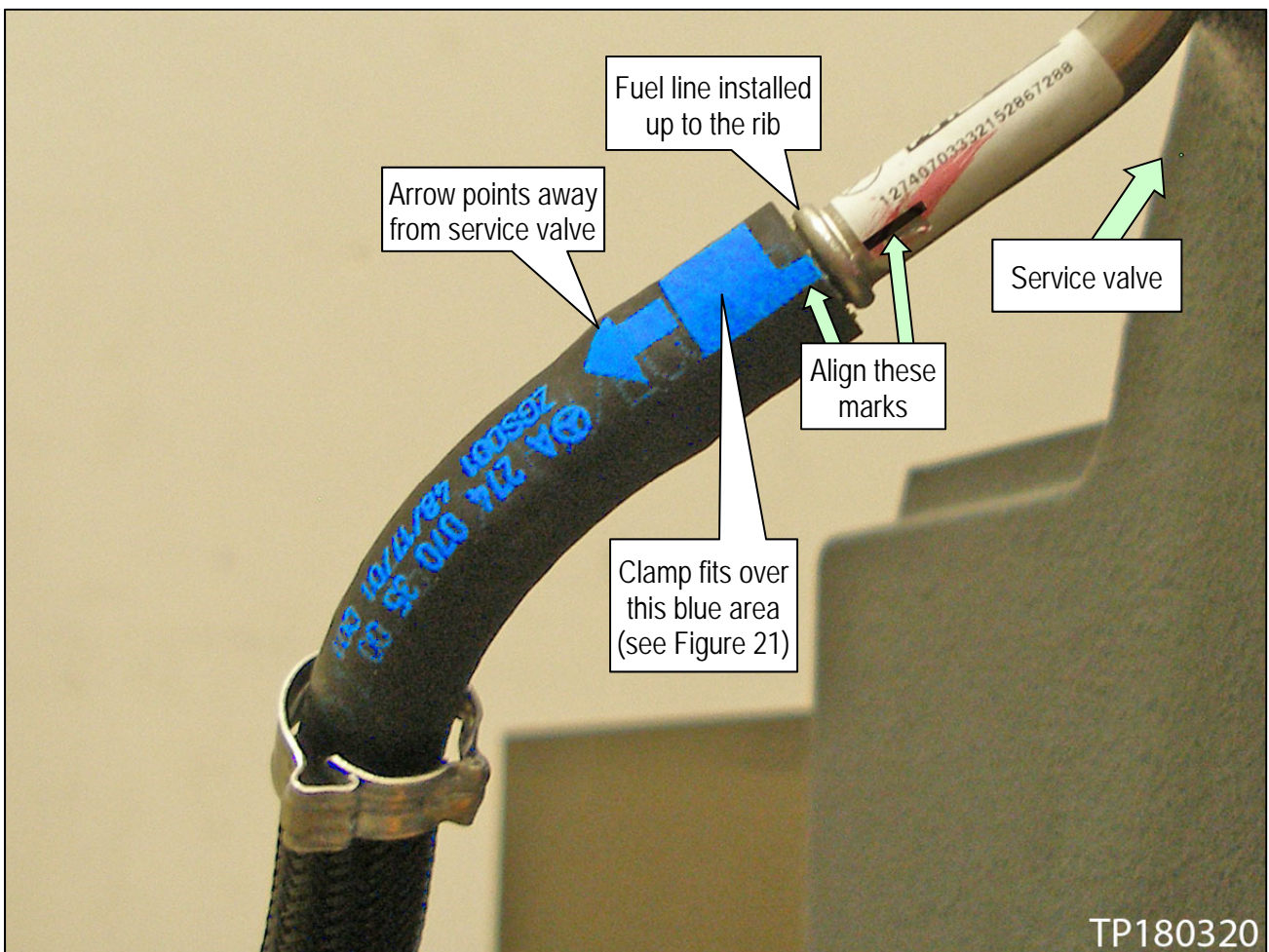


Figure 20

- c. Position the clamp on the blue mark, and then fasten the clamp with suitable pliers.

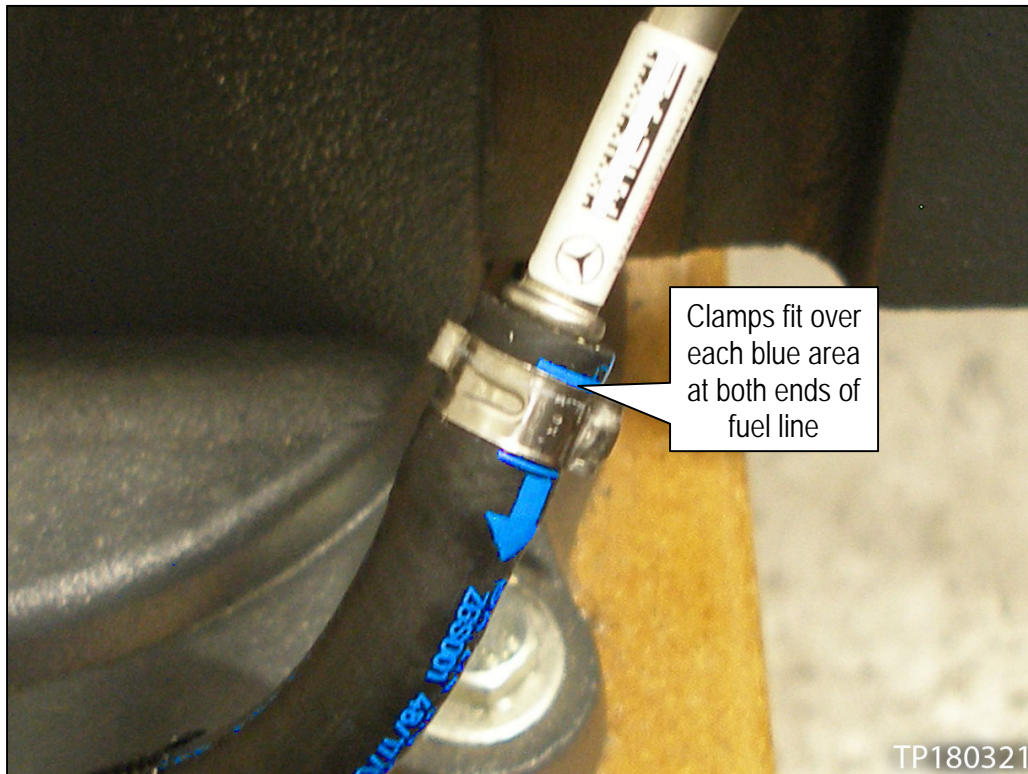


Figure 21

- Squeeze the clamp until it snaps together.



Figure 22

Installation: Low Pressure Fuel Line

1. Install the new low pressure fuel line with service valve in reverse order of removal.

- Refer to Figures 12, 15, and 16 to aid in low pressure fuel line routing.

CAUTION: It is important to install the low pressure fuel line correctly. A misrouted fuel line may cause it to contact other component parts.

2. At this time, check for fuel leaks:

- a. Connect the electrical connector to the high pressure fuel pump.
- b. Install the 15 amp "fuel pump" fuse.
- c. Turn the ignition ON, but do not start the engine.
- d. Check for fuel leaks.
- e. After checking for leaks, turn the ignition OFF.

3. Finish reassembling the vehicle in reverse order of disassembly.

- Service valve E10 bolt torque: 8.5 N•m (0.87 kg-m, **75 in lbs**)
- Floor under cover and floor under side cover bolts torque: 5.5 N•m (0.56 kg-m, **49 in lbs**)

- Shield T45 bolts torque: 20.0 N•m (2.0 kg-m, **15 ft lbs**)

- Torque the T45 bolts in the sequence shown in Figure 23.

- 10 mm bolt torque: 10.0 N•m (1.0 kg-m, **89 in lbs**)

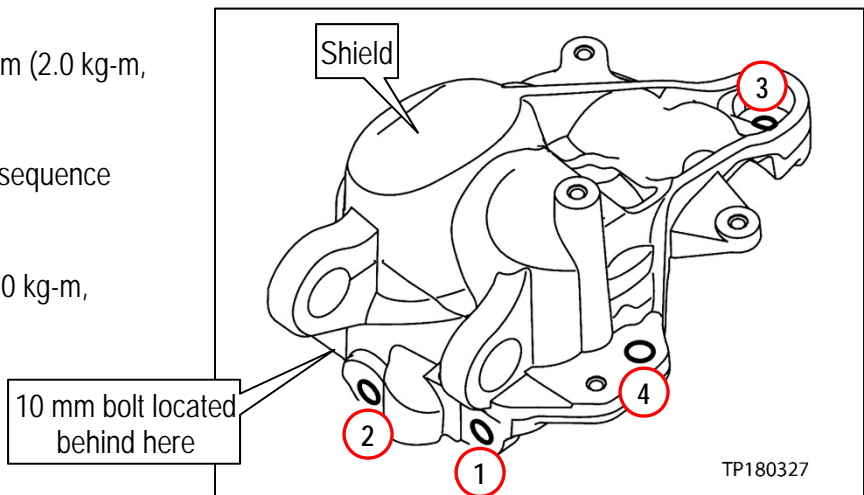


Figure 23

- Electrical harness protector T30 bolts torque: 8.5 N•m (0.87 kg-m, **75 in lbs**)
- ECM bracket 2 T30 bolts torque: 8.5 N•m (0.87 kg-m, **75 in lbs**)

4. Use CONSULT-III plus (C-III plus) to erase DTCs caused by the engine being started with the fuel pump fuse removed.

- Verify no related DTCs "trip" after erasing.

Clamps: Unfasten

1. Insert a suitable pick in the location shown in Figure 24.
2. To unfasten, lift the edge by prying up over the lip.



Figure 24

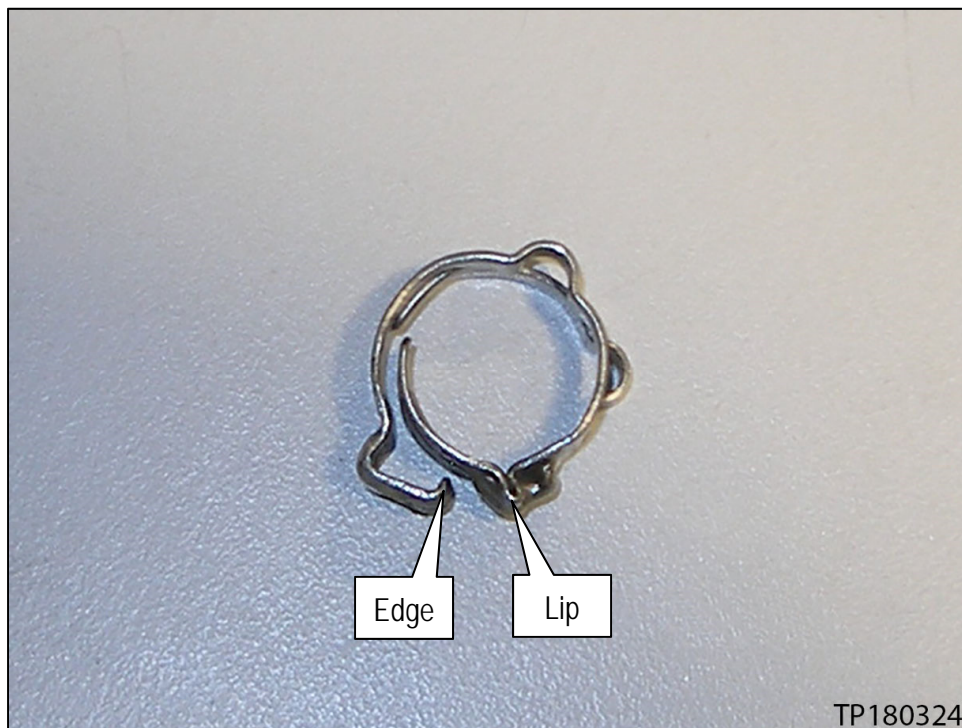


Figure 25

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
HOSE-FUEL (low pressure fuel line)	16446-91C1N	1
CLAMP	01555-HG00C	2

CLAIMS INFORMATION

Submit a "CM" line claim using the following claims coding:

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
P8314	Replace Low Pressure Fuel Line	P83140	1.4 hrs

