



SERVICE BULLETIN

Classification:

EL17-002

Reference:

NTB17-031

Date:

March 16, 2017

2016 – 2017 TITAN XD; COOLANT HEATER (ENGINE BLOCK HEATER) INSTALLATION

APPLIED VEHICLES: 2016 – 2017 Titan XD (A61)

APPLIED ENGINE: Cummins (5.0L V8) Diesel

SERVICE INFORMATION

Some customers may want to use a coolant heater (engine block heater) for their vehicle when ambient temperatures are below 32°F (0°C).

2016 Titan XD:

- Some were not equipped from the factory with a coolant heater or cord.
- Some were equipped with coolant heater, but not a cord.

2017 Titan XD: Was equipped from the factory with a coolant heater, but some were not equipped with the coolant heater cord.

If a customer chooses to purchase the parts and labor for installation of a coolant heater and/or coolant heater cord, use the Service Procedure in this bulletin for installation instructions.

NOTE:

- Refer to Owner's Manual for coolant heater (engine block heater) operation instructions.
- Coolant heaters (engine block heaters) will operate continuously when plugged into the correct voltage electrical socket. Operate coolant heater only when the ambient temperature is below 32°F (0°C).
- When using the coolant heater the vehicle should be parked on a level surface. If a level surface is not available, the vehicle should be parked with the front of the vehicle lower than the rear (nose down).

CAUTION: Use of the coolant heater when parked with the front of the vehicle higher than the rear (5 degrees or more) may cause the coolant heater to become damaged and/or inoperative.

Nissan 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 Nissan dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

1. Record (write down) any customer settings that will be lost when the battery is disconnected.
 - Refer to the Electronic Service Manual (ESM) section PG-Power Supply, Ground, & Circuit Elements, for a listing of systems that may lose settings or memory when disconnecting the 12V battery.
 - Look in the PG section index for **ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL**.
 - This list often includes items such as audio, HVAC, power windows, clock, etc.
2. Disconnect the negative battery cable from both batteries.
3. Remove the left side (driver side) battery from the vehicle.
 - If needed, refer to the ESM, Section PG-Power Supply, Ground, & Circuit Elements, for battery removal.
4. Drain the engine coolant (if coolant heater is being installed).
 - Refer to the ESM, Section CO-Engine Cooling System, for coolant draining information.
 - Drain the coolant into a clean drain pan. The drained coolant will be reused/reinstalled back into the cooling system.

CAUTION: Do not spill coolant on the drive belt.

5. Unbolt the power steering pump from its mounting bracket.
 - **Do not** drain the power steering fluid. The pump just needs to be moved to access the coolant heater port.
 - Refer to the Electronic Service Manual (ESM), Section ST-Steering System, for pump removal information.
 - Figure 1 shows the power steering pump positioned out of the way.

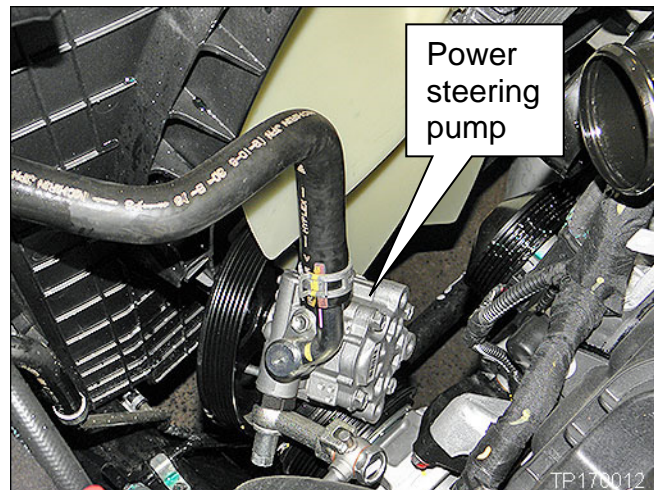


Figure 1

NOTE:

- With the power steering pump positioned out of the way, you will have access to the coolant heater port plug shown in Figure 2.
- Steps 6, 7 and 8 are needed only if a coolant heater is being installed.

6. Remove the coolant heater port plug; use a 12 mm hex tool.

7. Thoroughly clean the threads of the coolant heater port with a clean rag.

- Make sure there are no burrs, metal shavings, or sharp edges that can cut the O-ring on the coolant heater.

8. Install the coolant heater into the coolant heater port.

- Coolant heater is listed in the Parts Information.
- Make sure the O-ring is installed on the coolant heater.

- Tighten the coolant heater to:
55 N·m (5.6 kg-m, 41 ft-lb).

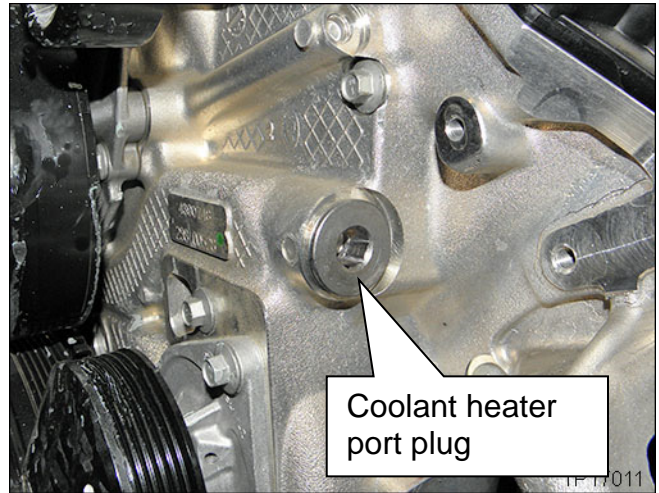


Figure 2

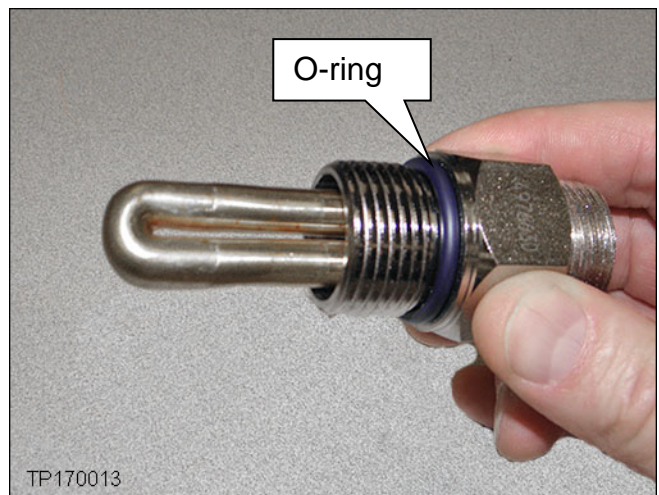


Figure 3

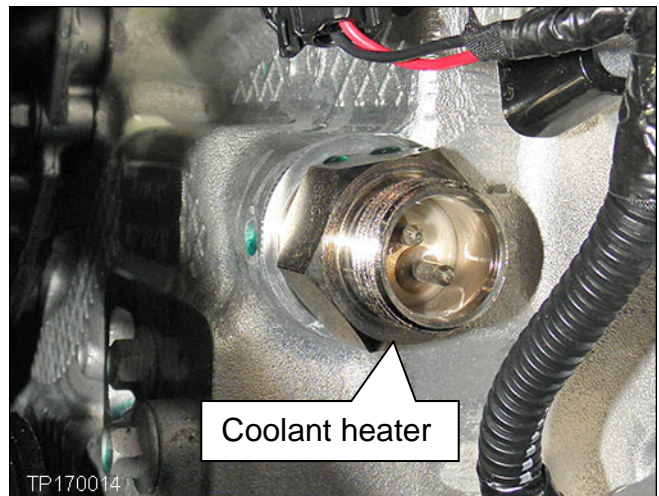


Figure 4

9. Attach the coolant heater cord bracket as shown in Figure 5.

- The cord bracket and bolt are listed in the Parts Information.
- Use the new bolt – discard the bolt that is removed from this location.
- Bolt torque: 24 - 32 N·m (2.44 - 3.26 kg-m, 18 - 23 ft-lb)

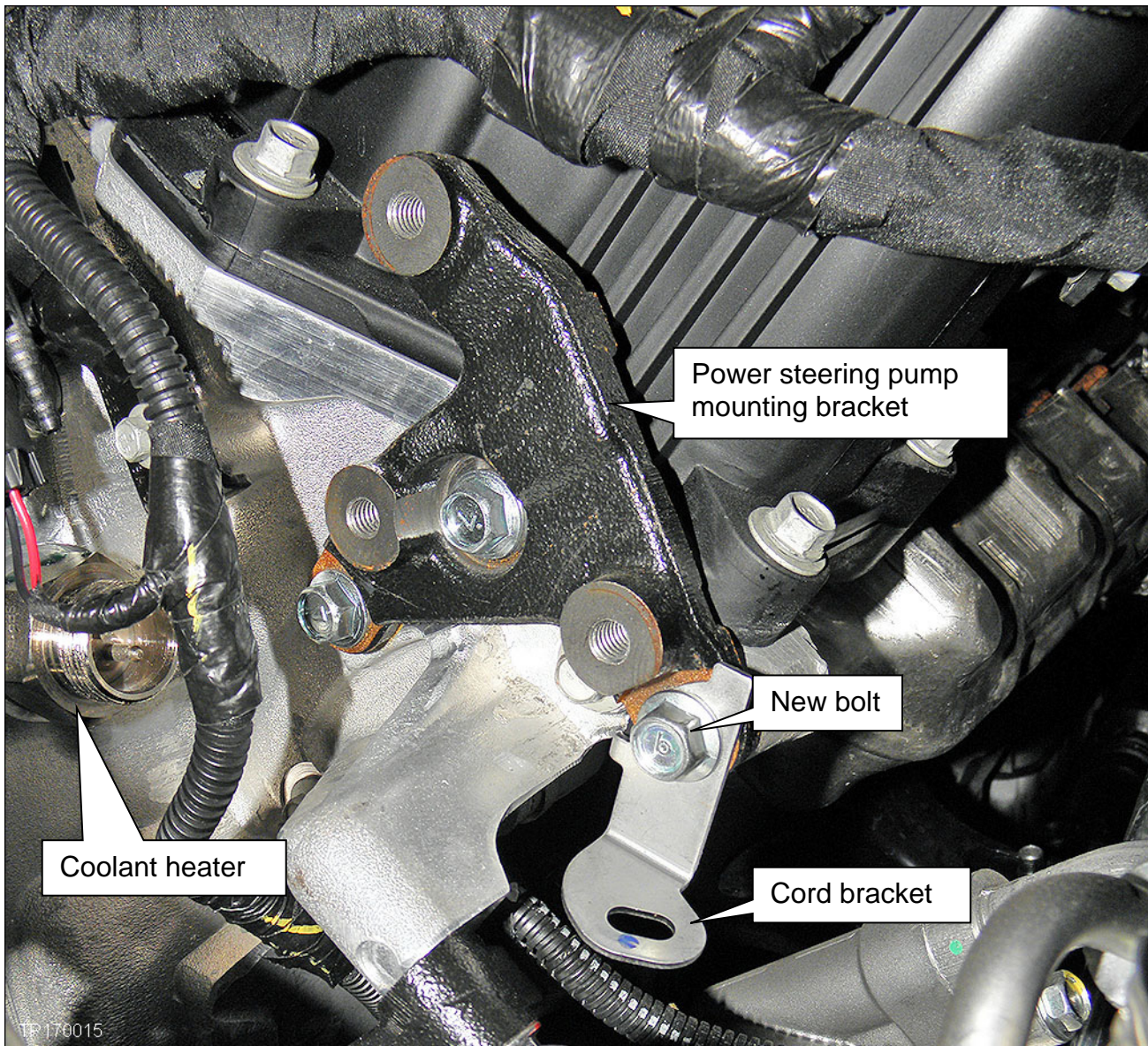


Figure 5

10. Attach the coolant heater cord to the coolant heater.

- Tighten the securing ring finger tight.
- The cord has 2 pins. It can be connected either way.

NOTE: Do not apply power to the coolant heater until the cooling system is filled, and the engine has run long enough for the thermostat to open and allow air to escape.

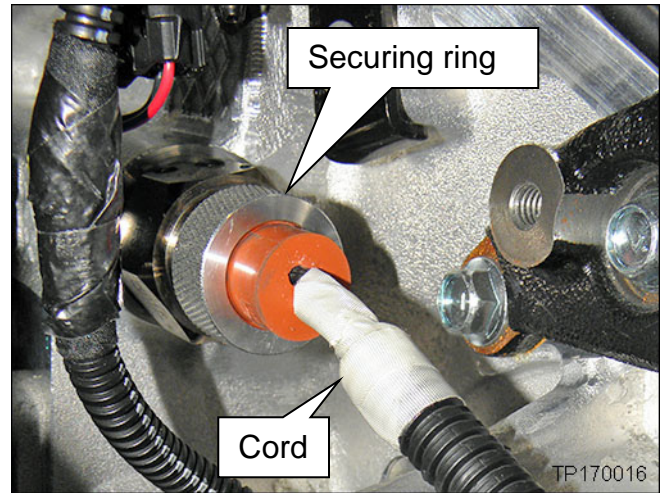


Figure 6

11. Route and connect the coolant heater cord as show in Figures 7 through 10.

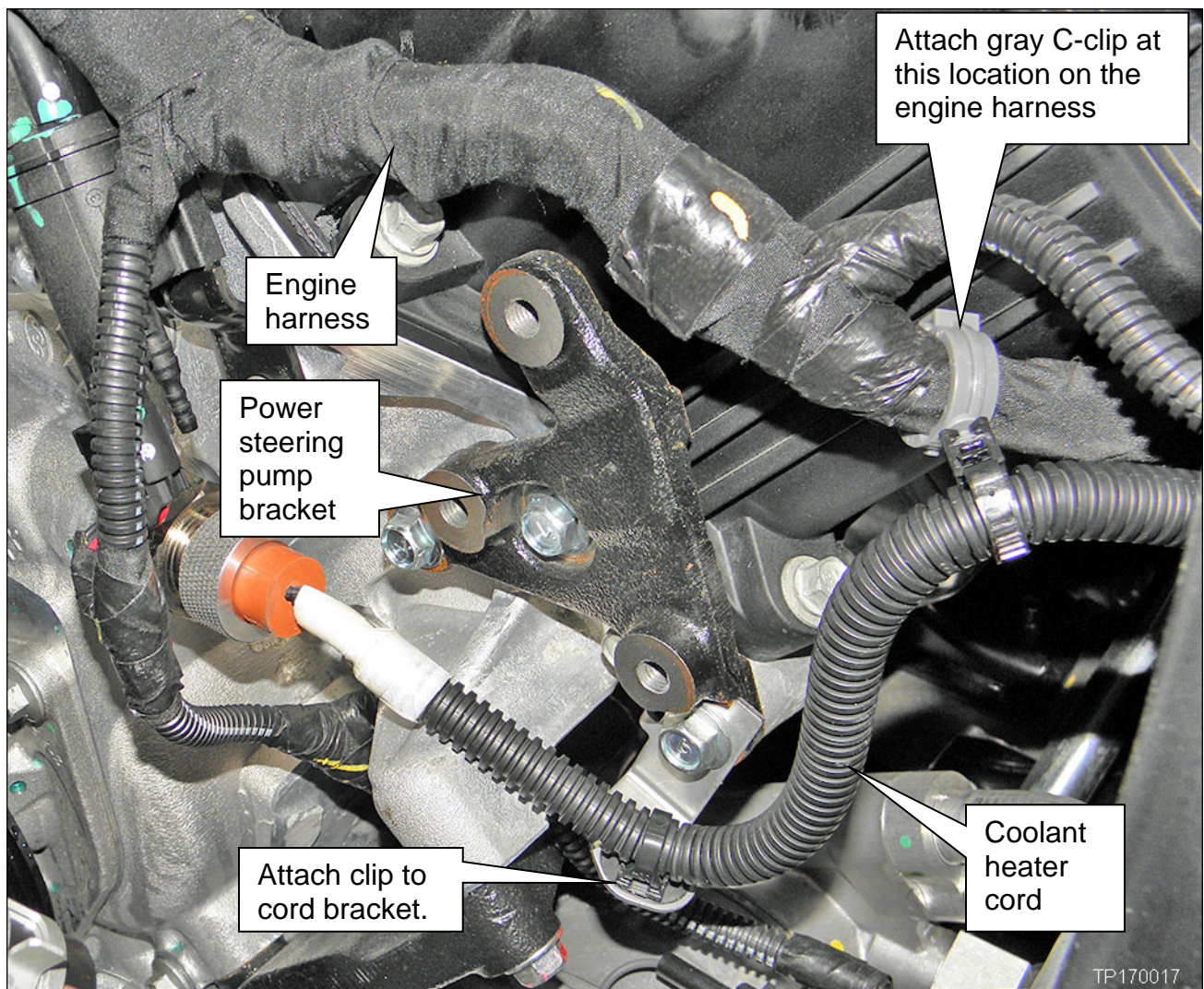


Figure 7

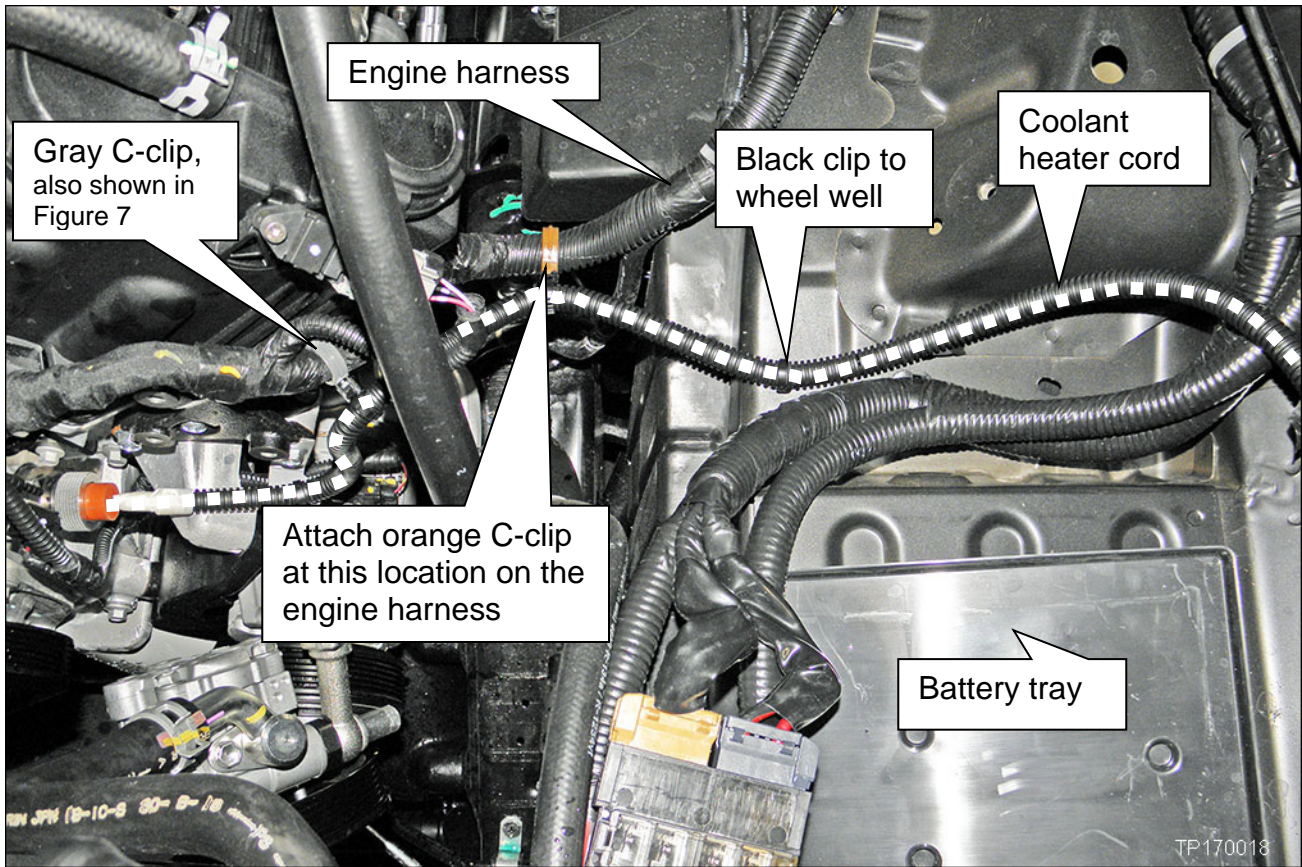


Figure 8

NOTE: The air cleaner case has been removed in Figures 8 and 9 to obtain a clear photo, but it does not need to be removed for coolant heater cord installation.

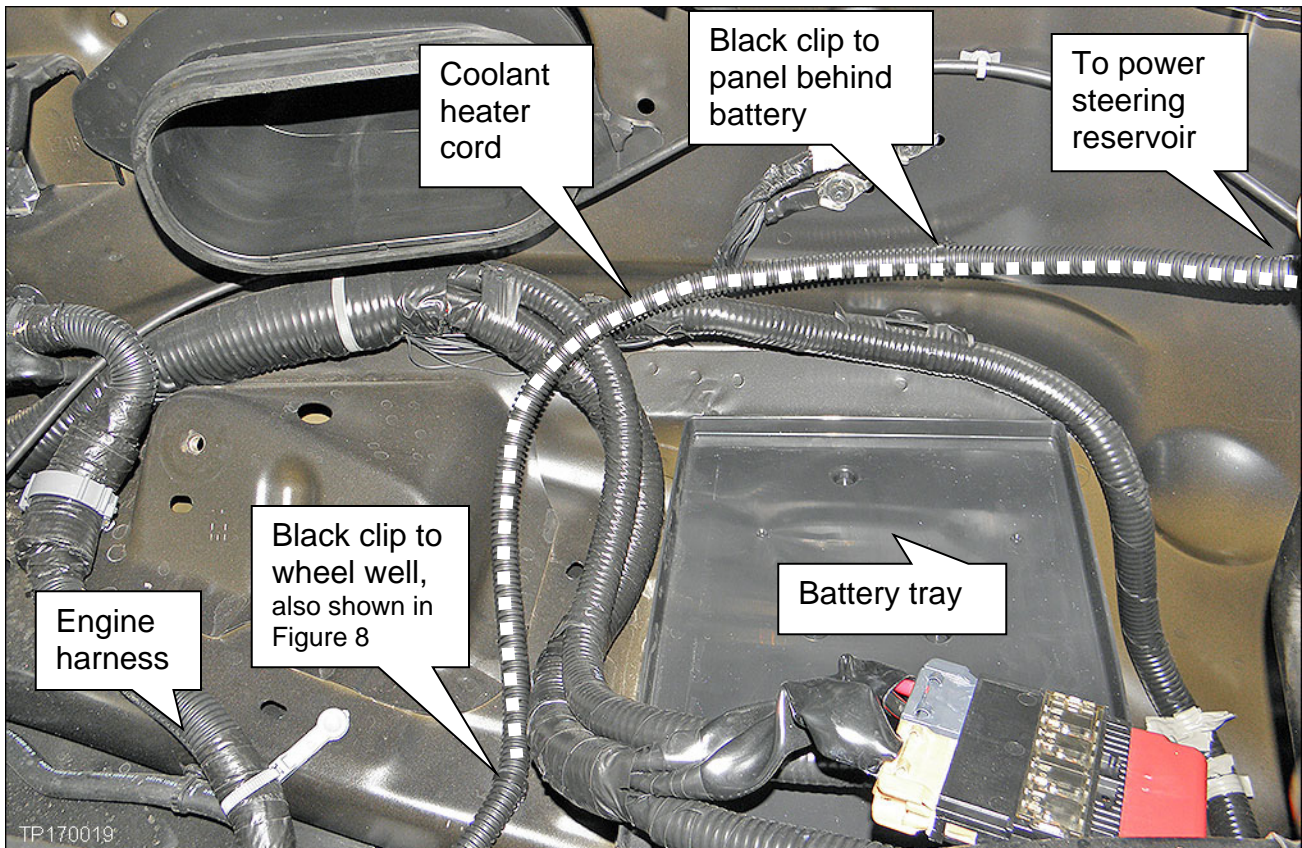


Figure 9

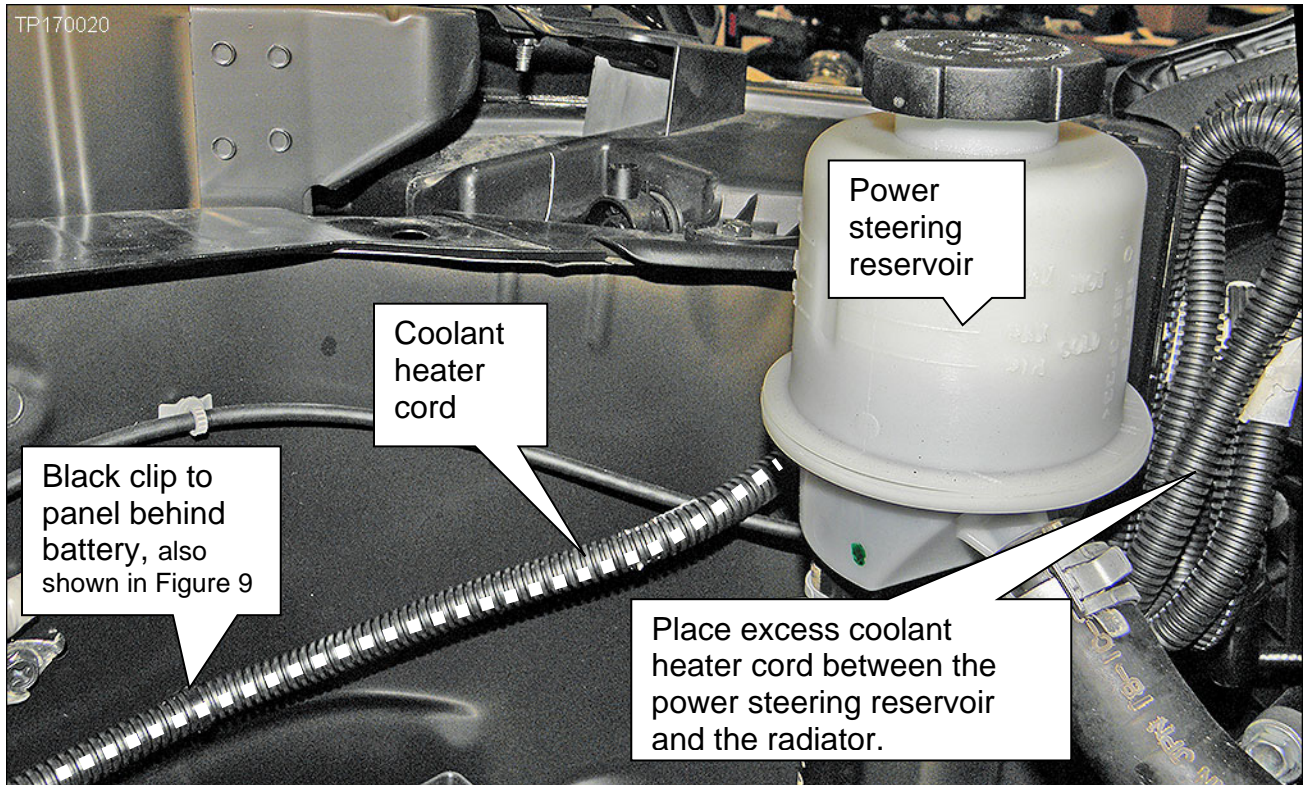


Figure 10

12. Re-install all parts removed in reverse order.

- Refer to the ESM as needed for re-assembly.

13. Re-fill the engine coolant.

- Refer to the ESM, section CO-Cooling System, for coolant refill information.
- Reuse the coolant that was removed from the engine.

14. Re-set any customer settings that were lost when the battery was disconnected.

- Refer to the Electronic Service Manual (ESM) section PG-Power Supply, Ground, & Circuit Elements, for a listing of systems that may lose settings or memory when disconnecting the 12V battery.
 - Look in the PG section index for **ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL**.
 - This list often includes items such as audio, HVAC, power windows, clock, etc.

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
Heater – Cylinder Block (Coolant Heater)	11001-EZ40A	1
Block – Heater Cord (Cord for coolant heater)	24076-EZ00A	1
Bracket – Clip (Bracket for heater cord)	24239-EZ20A	1
Bolt (Bolt for heater cord bracket)	081B0-8201A	1

