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# RECALL CAMPAIGN BULLETIN

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Reference:

NTB16-069

Date:

July 21, 2016

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## VOLUNTARY SAFETY RECALL CAMPAIGN 2016 SENTRA; ENGINE ROOM HARNESS

**CAMPAIGN ID #:** PM658

**APPLIED VEHICLE:** 2016 Sentra (B17)

**Check Service COMM to confirm campaign eligibility.**

### INTRODUCTION

Nissan is conducting a voluntary safety recall campaign on certain specific model year 2016 Sentra vehicles to repair the engine room harness. This service will be performed at no charge for parts or labor.

### IDENTIFICATION NUMBER

Nissan has assigned identification number PM658 to this campaign. This number must appear on all communications and documentation of any nature dealing with this campaign.

### DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service COMM for the campaign status on each vehicle falling within the range of this voluntary safety recall campaign which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. **Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration.** While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

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. Write down all audio presets.

<b>Presets</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>AM</b>						
<b>FM 1</b>						
<b>FM 2</b>						
<b>XM 1</b>						
<b>XM 2</b>						
<b>XM 3</b>						
<b>Bass</b>	<b>Treble</b>		<b>Balance</b>		<b>Fade</b>	<b>Speed Sen. Vol.</b>

2. Disconnect the negative battery cable.
3. Disconnect all three ECM connectors in the order shown in Figure 1.

**NOTE:** The 1<sup>st</sup> and 2<sup>nd</sup> ECM connectors need to be disconnected to access the 3<sup>rd</sup> ECM connector.

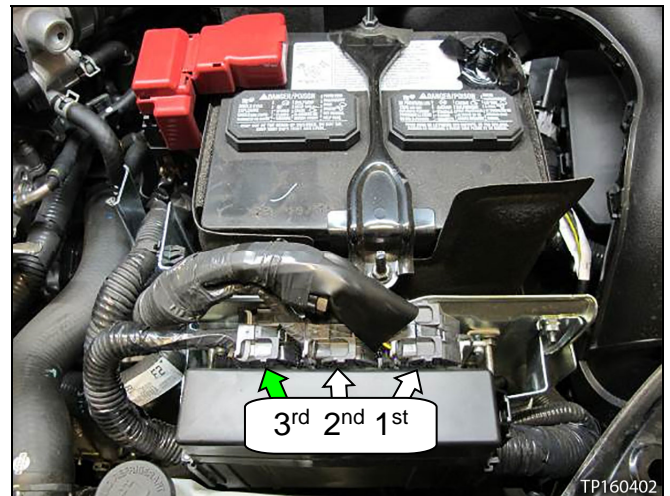


Figure 1

- Press down on the locking tab, and then pull up on the securing lever to disengage each ECM harness connector (see Figure 2).

4. Remove the securing lever from ECM connector E16 (see green arrow in Figure 1, also see Figure 3):

**NOTE:** Connector E16 is part of the engine room harness. The other two ECM connectors are part of the engine control harness.

- a. Align the securing lever slot to the pivot shaft (see Figure 3).
- b. While aligned, carefully pull the securing lever off the connector pivot shafts on both sides (see inset, Figure 3).

**CAUTION:** Be careful when removing the securing lever as it will be reused.

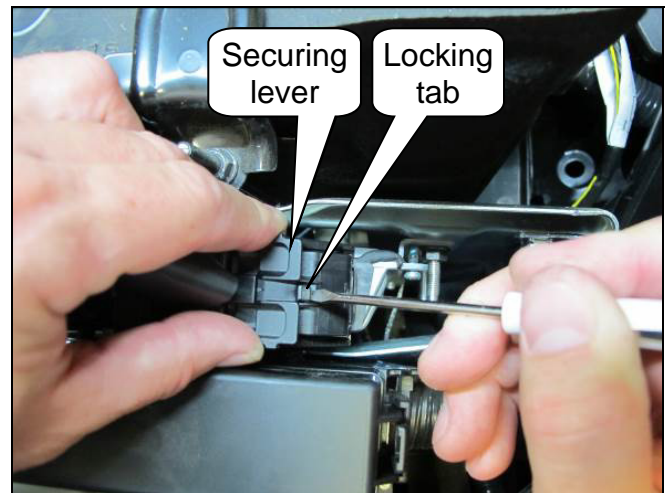


Figure 2

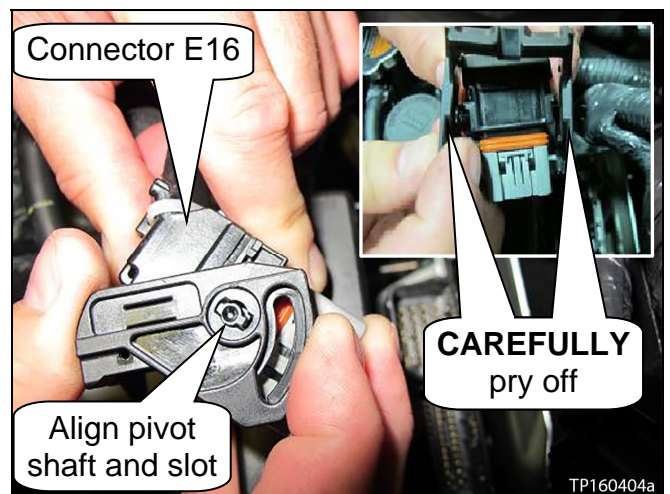


Figure 3

5. Using a suitable tool, cut and remove the tie strap from connector E16 (see Figure 4).

**CAUTION:** Be careful to NOT cut any other part of the wiring harness.

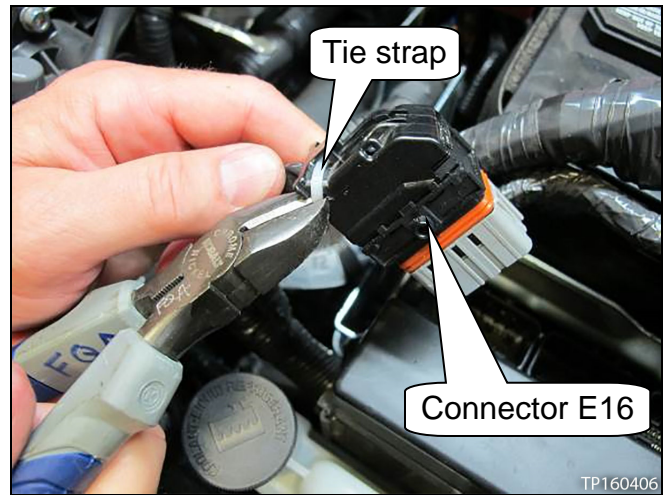


Figure 4

6. Remove the black top cover from connector E16.
  - a. Using a suitable tool, unlock the two locking tabs by carefully prying outward (see Figure 5).

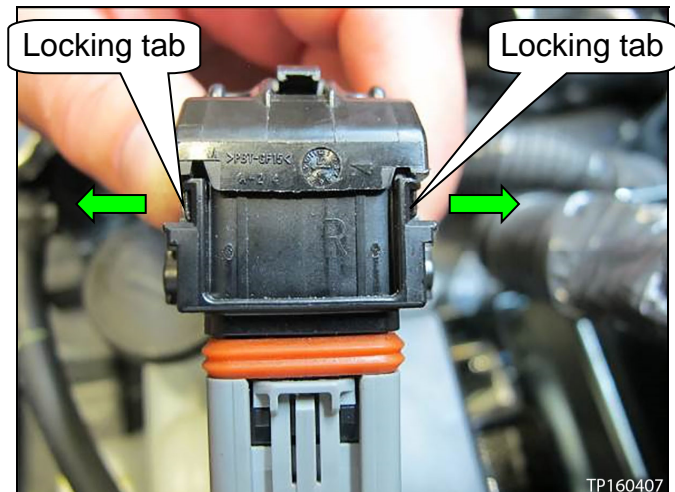


Figure 5

- b. Slide the black top cover off the connector (see Figure 6).

**NOTE:** This part will not be reused.

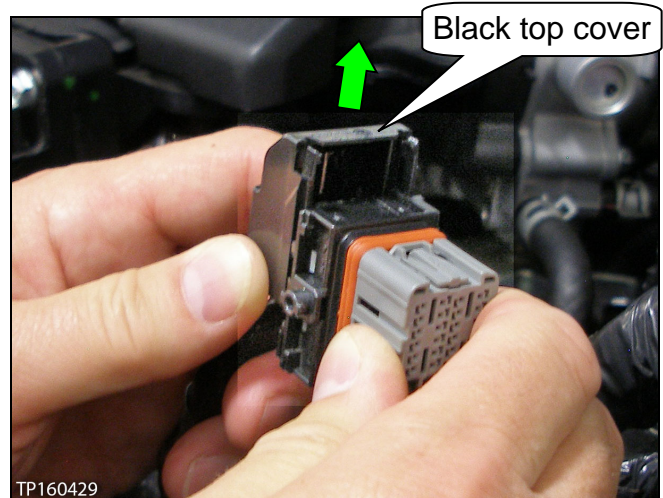


Figure 6



7. Remove the gray terminal cap.
  - a. Using a suitable tool, unlock the two locking tabs, and then slide down halfway to half latch position (see Figure 7).

**NOTE:** One of two locking tabs not shown.

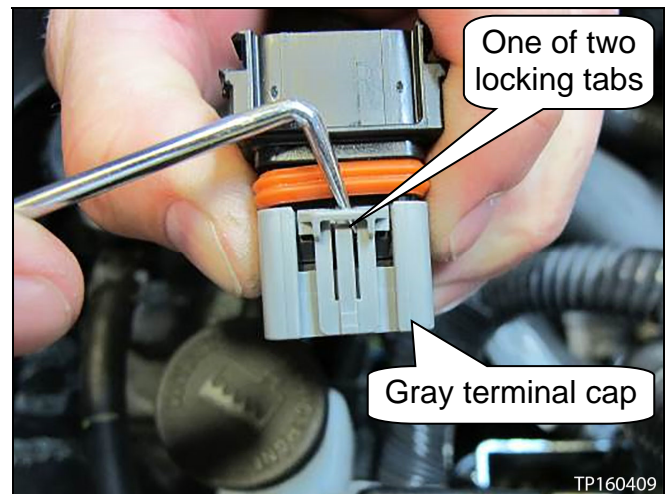


Figure 7

- b. Carefully unlock the locks at all four corners, and then slide off the gray terminal cap (Figure 8).

**NOTE:**

- All four corners must be released off the half latch position for the gray terminal cap to slide off the connector.
- This part will not be reused.

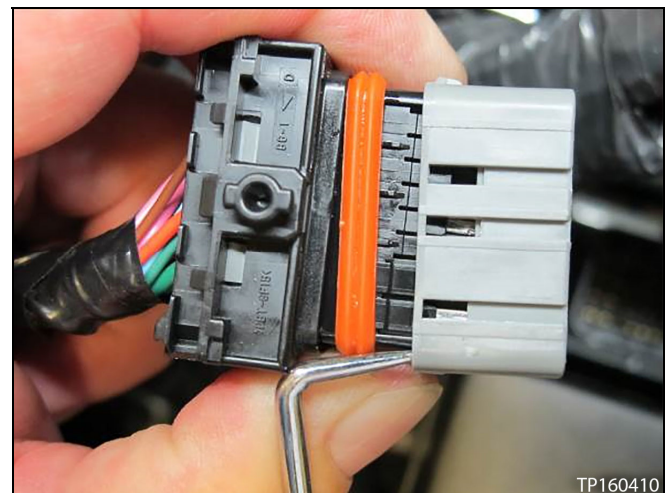


Figure 8

8. Carefully remove the orange weather seal (see Figure 9).

**NOTE:** This part will be reused.



Figure 9

9. Carefully remove the tape from the connector body to the corrugated conduit (see Figure 10).

**CAUTION:** Be careful NOT to damage any wiring during tape removal.



Figure 10

10. Locate terminal pin # 112 and its corresponding ORANGE wire in connector E16 (see Figure 11).

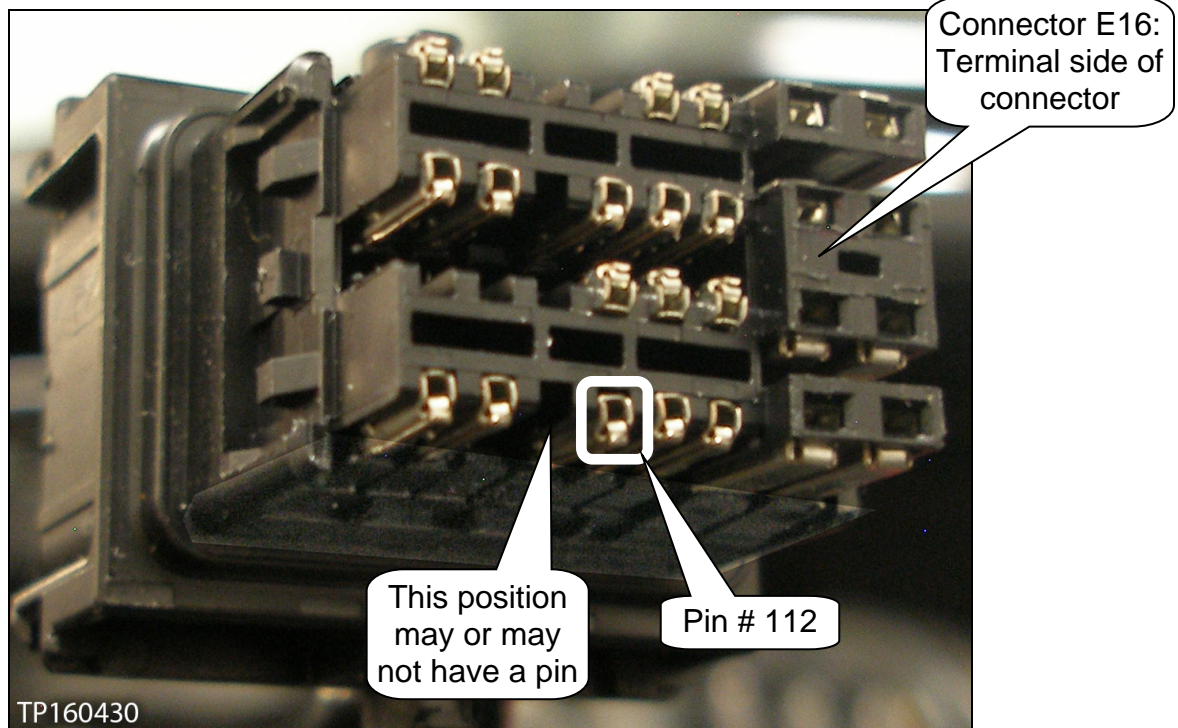


Figure 11



11. Remove terminal # 112 (ORANGE wire) from connector E16.

- a. Using a suitable tool, carefully release the terminal from the locking tab (see Figure 12).

**CAUTION:** Be careful when working with the locking tab. If forced too hard, it may break.



Figure 12

- b. Pull out the ORANGE wire and its terminal from connector E16 (see Figure 13).

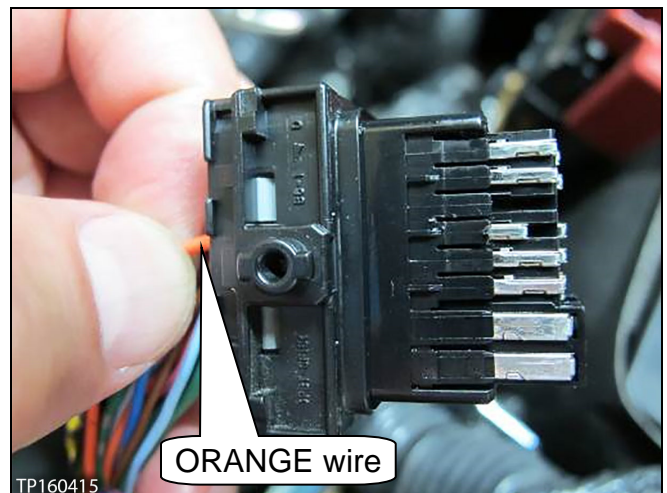


Figure 13

12. Cut the ORANGE wire approximately 75 mm (about 3 inches) from the end of the terminal. See Figure 14.

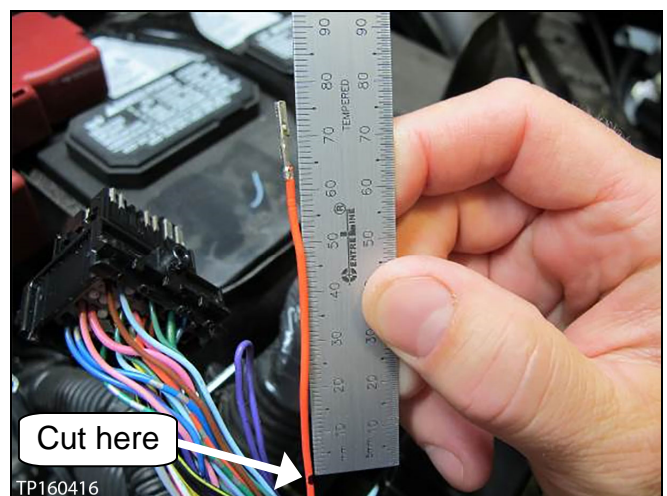


Figure 14

13. Strip approximately 10 mm (about 3/8 inch) of insulation from the ends of the cut wire and new wire with terminal from the harness kit. See Figure 15.

- Refer to **PARTS INFORMATION** for the harness kit.

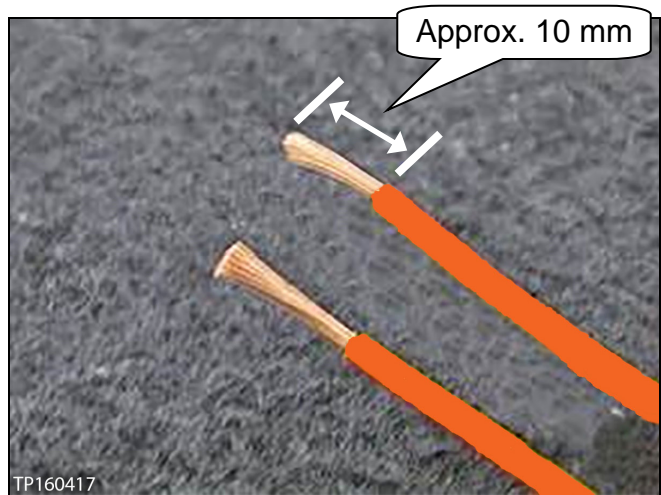


Figure 15

14. Slide a solder sleeve connector over one of the two wires.

- The solder sleeve connector is included with the harness kit. See **PARTS INFORMATION**.

**NOTE:** The solder sleeve connector should slide over the terminal.

15. Twist together the two wires (see Figure 16 and 17).

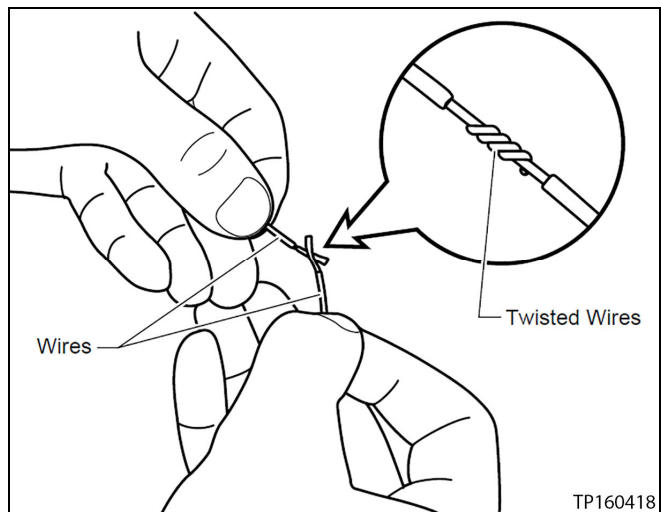


Figure 16

16. Position the solder ring in relation to the twisted wiring as shown in Figure 17.

**CAUTION:** For the next step, do not use an electric type soldering tool. An electric type soldering tool may generate a current that may damage the ECU.

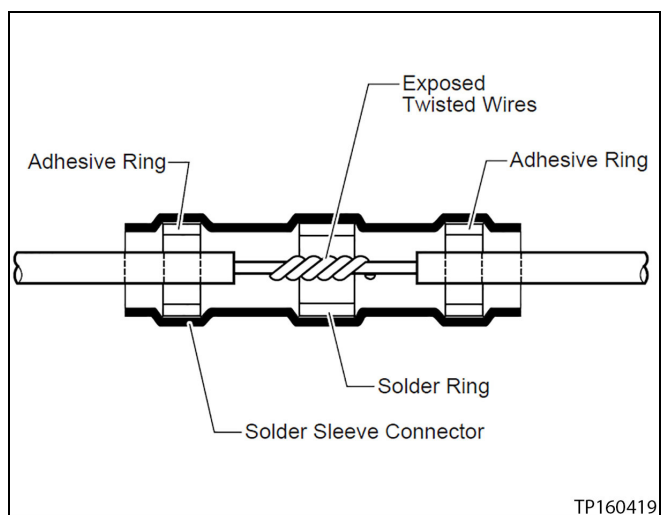


Figure 17



17. "Install" the solder sleeve connector by shrinking it to the ORANGE wire with essential tool Flameless Heat Gun J-46538 or similar flameless heating tool (see Figure 18 and 19).

"Installing" the solder sleeve connector will:

- Melt the solder (silver ring inside the solder sleeve connector) into the exposed twisted wire area,
- Melt the sealant (red rings inside the solder sleeve connector) onto the wires, and
- Shrink the remainder of the solder sleeve connector to the wire.

**NOTE:** Tool J-46538 can be purchased from TECH-MATE at 1-800-662-2001.

**CAUTION:** Do not use an electric type soldering tool. An electric type soldering tool may generate a current that may damage the ECU.

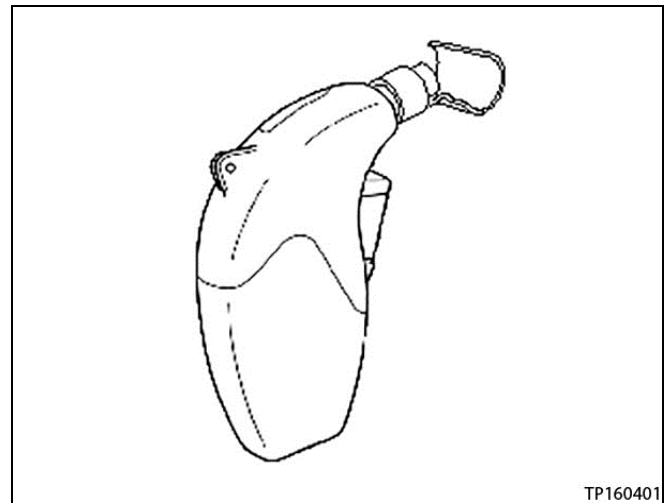


Figure 18

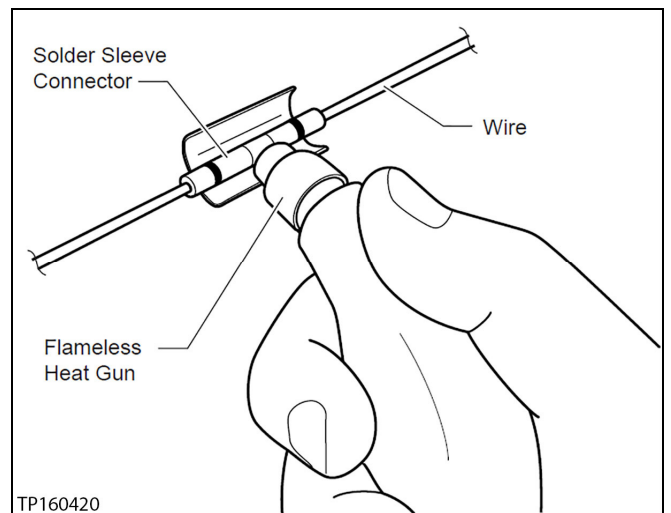


Figure 19

18. Wrap the solder sleeve connector (see Figure 20):

- a. Wrap the solder sleeve connector and past its ends with butyl seal.
- b. Completely wrap the butyl seal with suitable electrical tape.

**NOTE:** Electrical tape is considered shop supply.

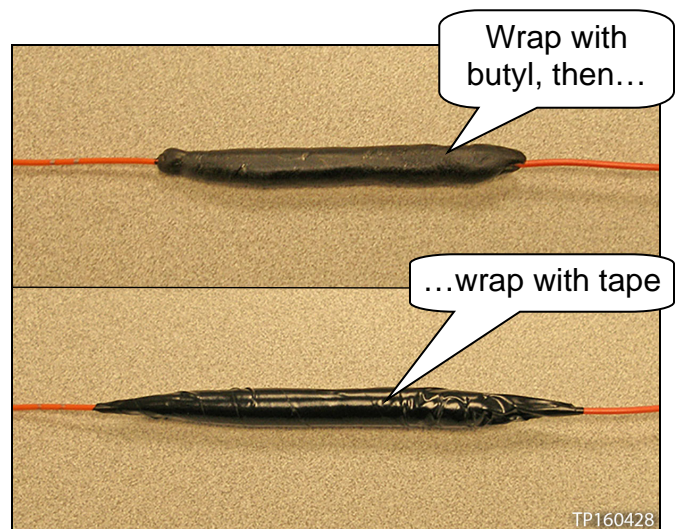


Figure 20

19. Install the new terminal into pin position # 112 in connector E16 (Figure 21).

- Carefully push the terminal into the appropriate hole from the harness side of the connector until a light “click” is heard.

**NOTE:** The terminal is fully seated when it cannot be pulled back out by hand.

20. Wrap the end of the corrugated conduit and exposed wiring up to connector E16 with suitable electrical tape (see Figure 22).

21. Reinstall the orange weather seal to the ECM connector (see Figure 23).

22. Install a new gray terminal cap from the harness kit (see Figure 24).

- Refer to **PARTS INFORMATION** for the harness kit.
- a. Correctly orient the cover to the connector, and then push on.
- b. Snap on by hand, stopping at half latch position, and then continue to push on until fully seated.

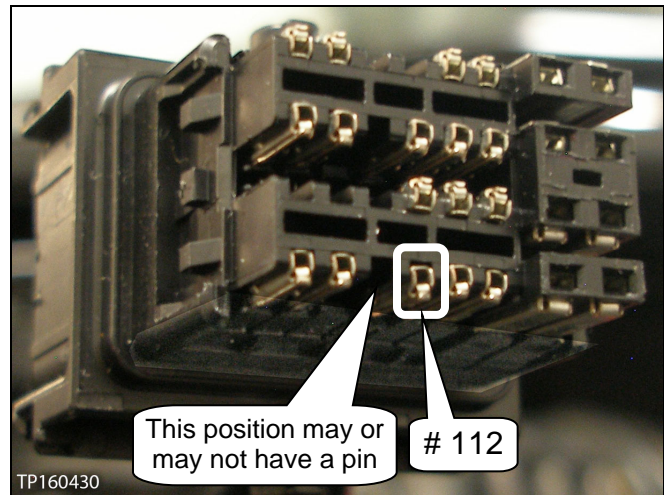


Figure 21

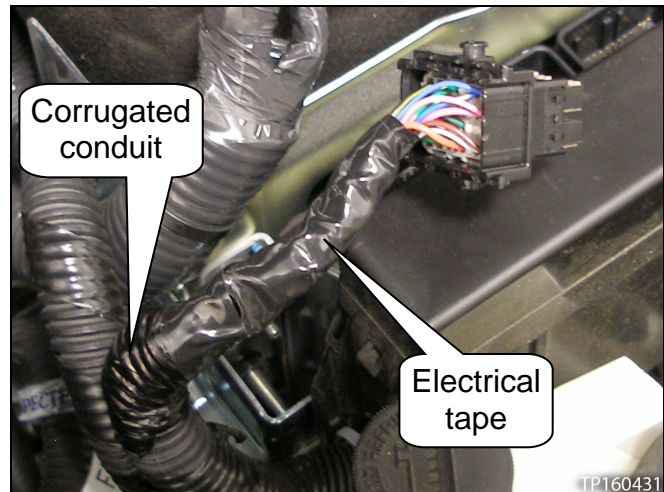


Figure 22



Figure 23

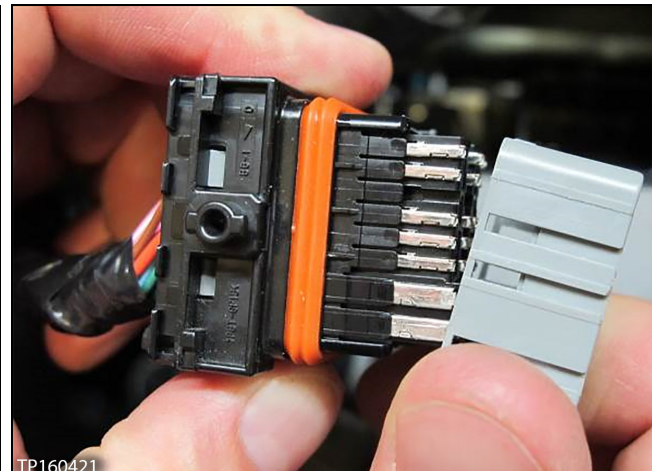


Figure 24



23. Install a new black top cover from the harness kit (see Figure 25).

- Refer to **PARTS INFORMATION** for the harness kit.
- Slide the black top cover onto connector E16, and then snap into place to lock.

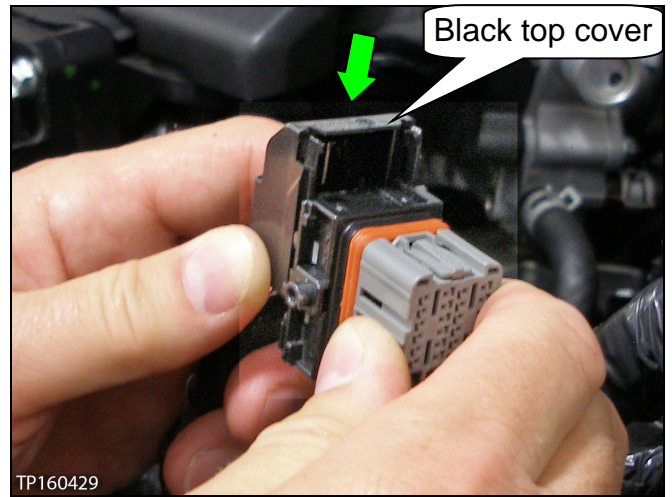


Figure 25

24. Install a new tie strap around the black top cover and all wiring close to connector E16 (see Figure 26).

- A tie strap is included in the harness kit (see **PARTS INFORMATION**).
- Trim the excess tie strap with a suitable tool.

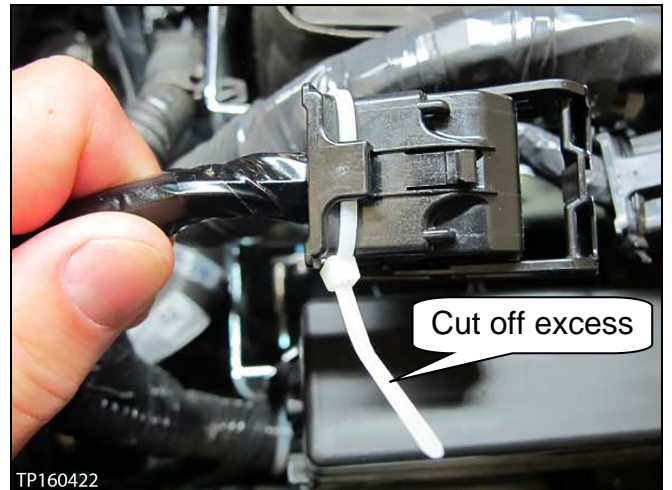


Figure 26

25. Install the securing lever (see Figure 27).

- a. Align the securing lever slot to the pivot shaft on both sides of the connector.
- b. Carefully snap on the securing lever on both connector pivot shafts on both sides.

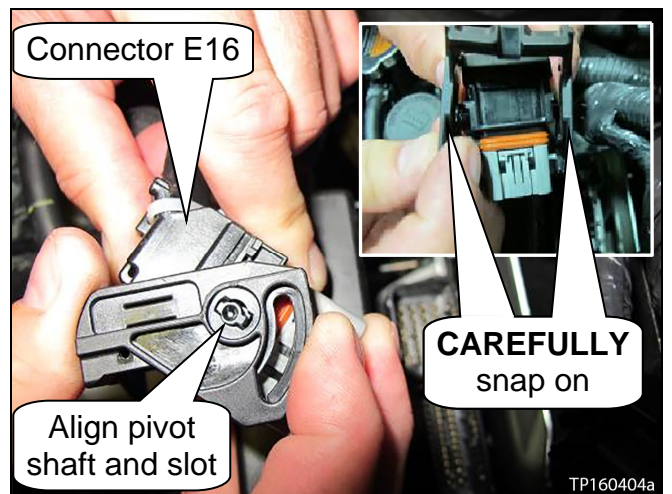


Figure 27



26. Reconnect all three ECM connectors.
  - a. Connect all three ECM connectors in the order shown in Figure 28.
  - b. Fully latch the lock on each connector.
  - c. Verify all three connectors are fully seated by gently pulling on them.

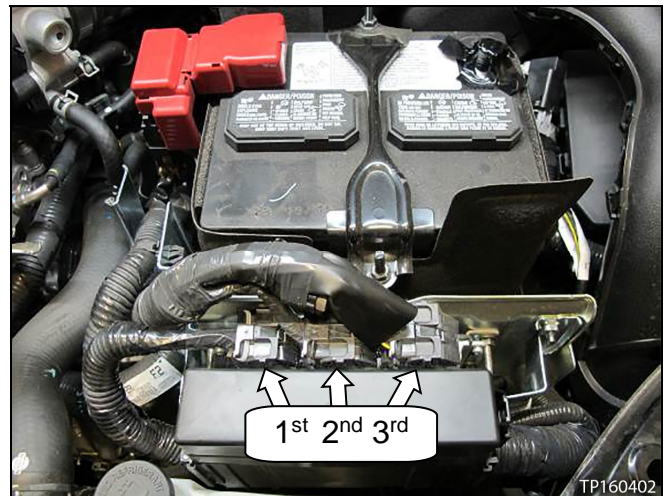
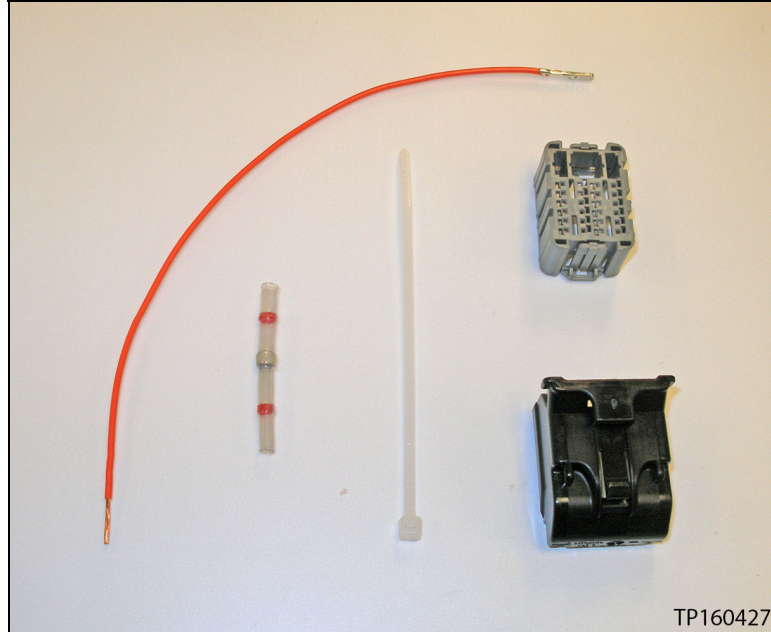


Figure 28

27. Reconnect the negative battery cable.
28. Close the hood.
29. Verify the Malfunction Indicator Lamp (MIL) turns OFF normally after starting the engine.
30. Reset the clock as needed.
31. Reset/initialize systems as needed.
  - Refer to the Electronic Service Manual (ESM) section PG-Power Supply, Ground, & Circuit Elements, for a listing of systems that require reset/initialization after reconnecting the 12 V battery.
    - Look in the PG section index for **ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL.**
    - This list often includes items such as Idle Air Volume Learn (IAVL), audio, power windows, clock, etc.

**PARTS INFORMATION**

DESCRIPTION	PART NUMBER	QUANTITY
HARNESS KIT	24009-4AF0A	1



Harness Kit

**CLAIMS INFORMATION**

Submit a Campaign (CM) line claim using the following claims coding:

CAMPAIGN (CM) ID #	DESCRIPTION	OP CODE	FRT
PM658	Repair Engine Room Harness	PM6580	0.6 hrs.

**Expense Code:**

EXPENSE CODE	DESCRIPTION	MAX AMOUNT
101	Butyl seal	\$1.50