RECALL CAMPAIGN BULLETIN

Classification:	Reference:	Date:
EC20-029A	NTB20-089A	April, 13 2021

VOLUNTARY SAFETY/EMISSION RECALL CAMPAIGN 2020 TITAN AND TITAN XD; EGI HARNESS

This bulletin has been amended. See AMENDMENT HISTORY on the last page.
Discard all previous versions of this bulletin.

CAMPAIGN ID #: PC773
APPLIED VEHICLES: 2020 Titan and Titan XD (A61)
APPLIED ENGINE: VK56VD (Gasoline V8)

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

INTRODUCTION

Nissan is conducting this voluntary safety and emission recall campaign on certain specific model year 2020 Titan and Titan XD vehicles to repair the engine control (EGI) harness. If visible damage is found, during the repair, the entire harness must be replaced instead. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number PC773 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service COMM or Dealer Business Systems (DBS) National Service History for the campaign status on each vehicle falling within the range of this voluntary safety and emission recall 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.

IMPORTANT

Attention California Dealers

An Emission Recall Campaign Completion (ERCC) label must be filled out by the technician performing the repair, and then attached to the underside of the vehicle hood. A sample of the label is shown below.

Technician: Fill in the following:

"Inspected and repaired EGI harness per Campaign ID # PC773"
or
"Inspected and replaced EGI harness per Campaign ID # PC773"

Fill in "DEALER CODE" and "DATE"
Put "ARB/EPA" under "CHANGE AUTHORITY"

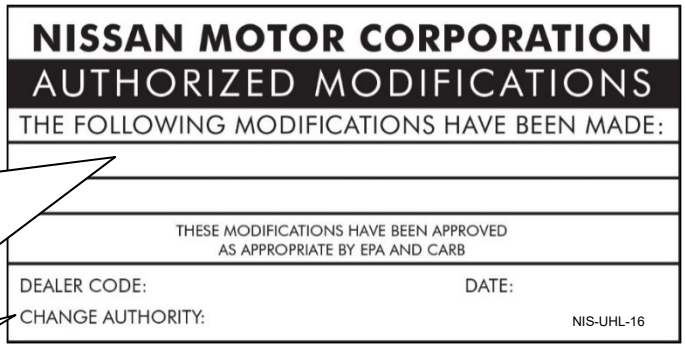


Figure 1

California law prohibits owners from renewing their California registration if emissions related recall work has not been performed. California dealers are now required to issue a proof of correction certificate to vehicle owners upon completion of emissions related recall work. Please fill out one of the campaign completion forms for each owner that has this campaign performed. Instruct owners to keep this certificate unless they are requested to mail it to the DMV. A sample of the form is shown in Figure 2 below.

Orange colored

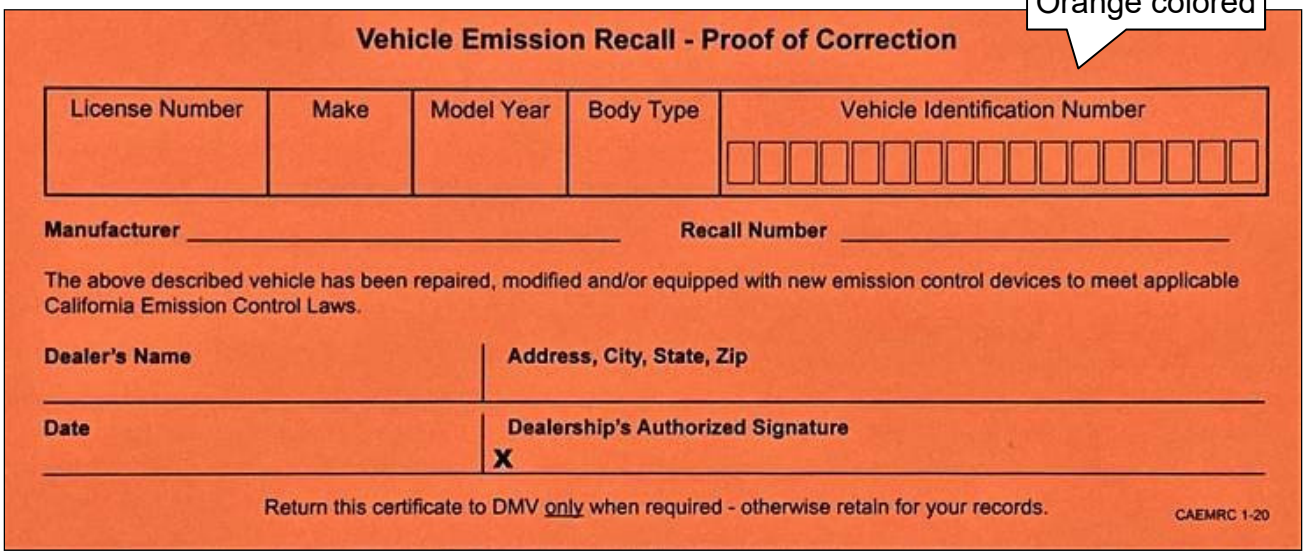
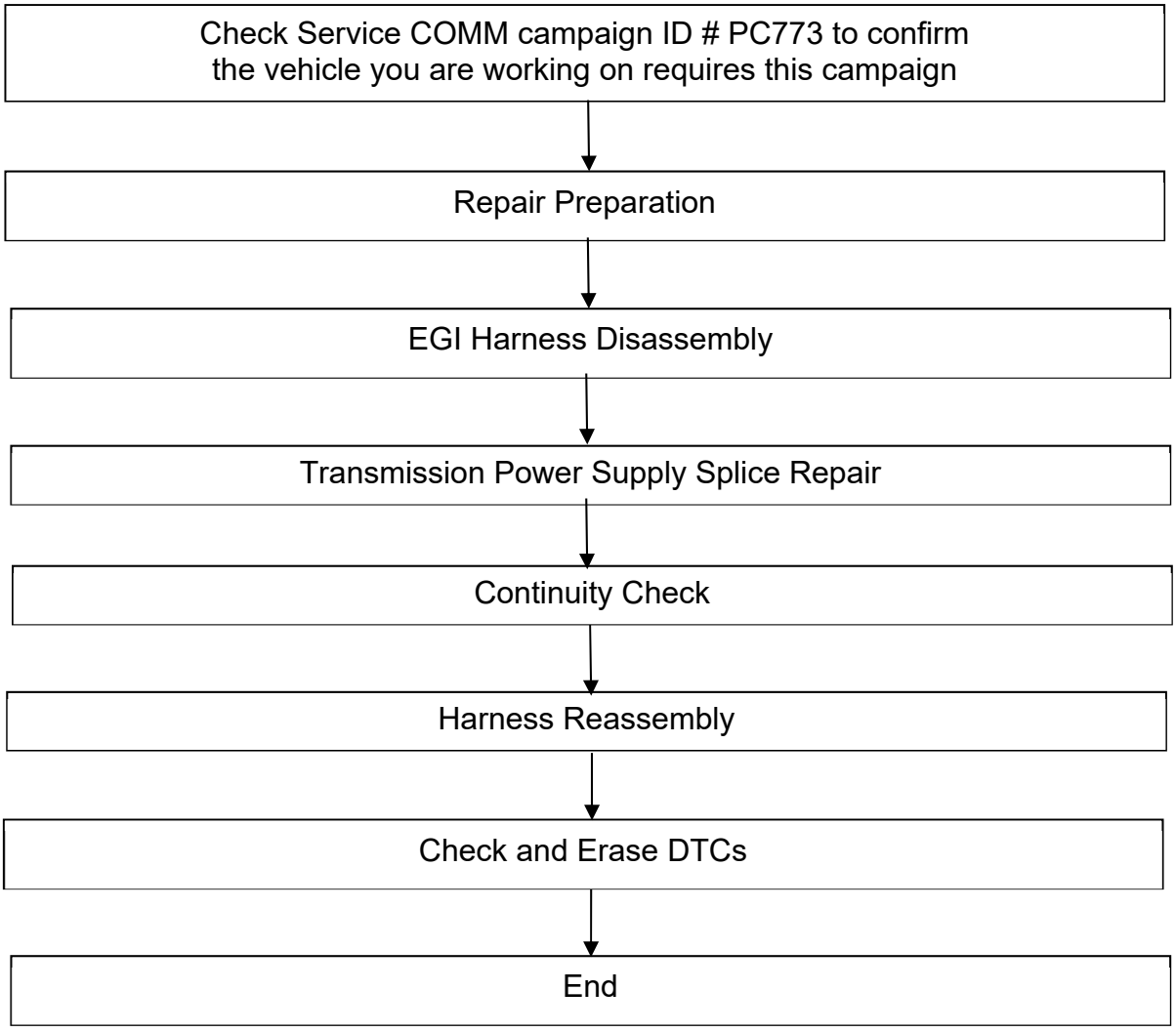


Figure 2

NOTE:

- These forms (item number **CAEMRC 1-20**) and labels (item number **NIS-UHL-16**) are available from Nissan Publications (1-800-247-5321) at no charge.
- When either item (form or label) is ordered, you will automatically receive the other item as well.

REPAIR OVERVIEW



SERVICE PROCEDURE

NOTICE

To avoid damage to the vehicle, if there is **VISIBLE DAMAGE** to any of the individual wires within the EGI harness, the entire harness must be replaced.

Repair Preparation

1. Write down the radio presets.

2. Disconnect the 12V battery.

   - Disconnect the negative battery cable first.
   - Remove the positive battery terminal cover and disconnect the positive battery cable.

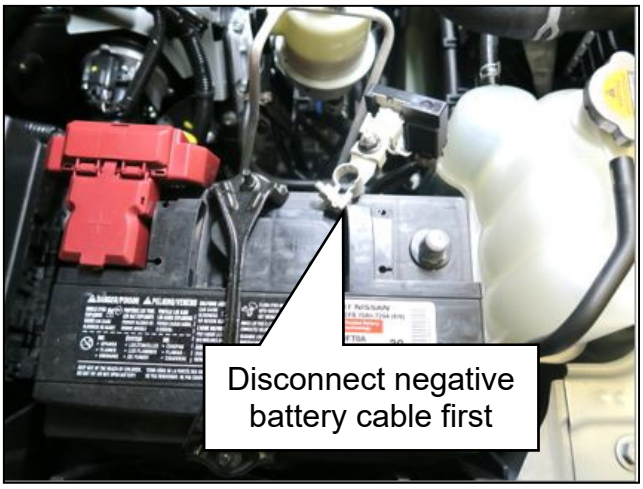


Figure 3

3. Place suitable covers on both fenders and across the front of the vehicle to prevent damage to the vehicle's finish.

Figure 4

4. Remove the engine cover.

   a. Pull up on the front corners of the engine cover to release it.

   b. While lifting, pull the cover toward the front of the vehicle to disengage the rear of the cover.

   c. Place the engine cover in a clean area.

Figure 5

EGI Harness Disassembly

NOTE: The EGI harness repair will be performed toward the back of the passenger side valve cover, as shown in Figure 6.

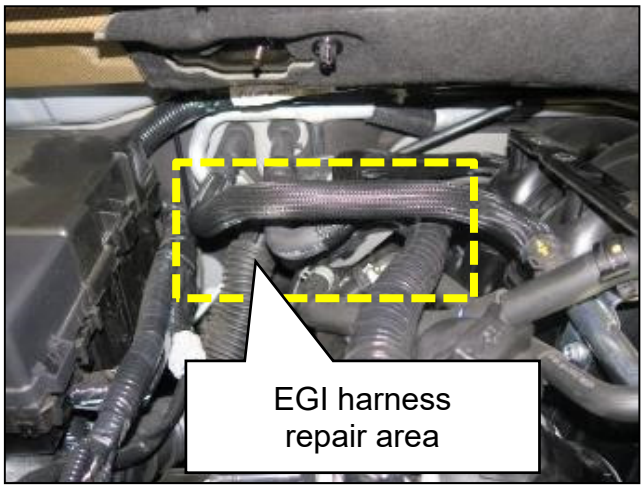


Figure 6

5. Remove the EGI harness from the harness retainer clip as shown in Figure 7.

   - Disengage the harness retainer by inserting a small flat blade screwdriver and gently prying outward to disengage.

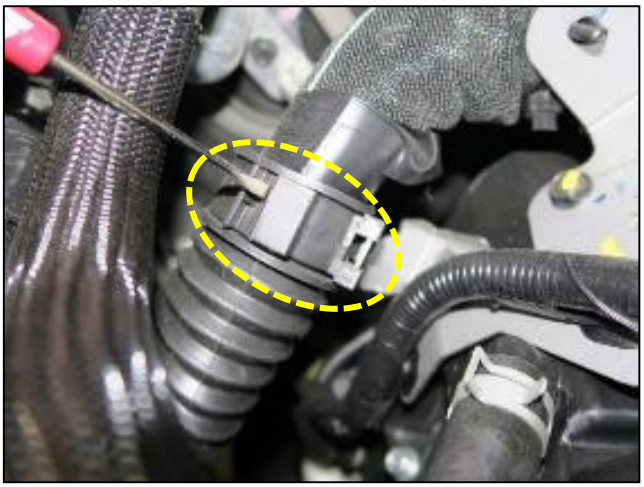


Figure 7

6. Disengage the harness retainer as shown in Figure 8.

   a. Depress both sides of the harness retainer clip to disengage.

   b. With the retainer clip tabs disengaged, push the harness toward the rear of the vehicle to remove it from the harness retainer bracket.

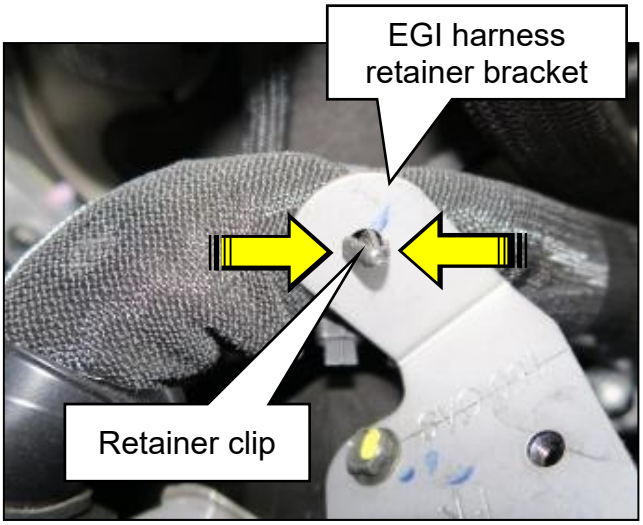


Figure 8

7. Lift the harness over the harness retainer bracket, as shown in Figure 9, and move the harness toward the front of the vehicle.

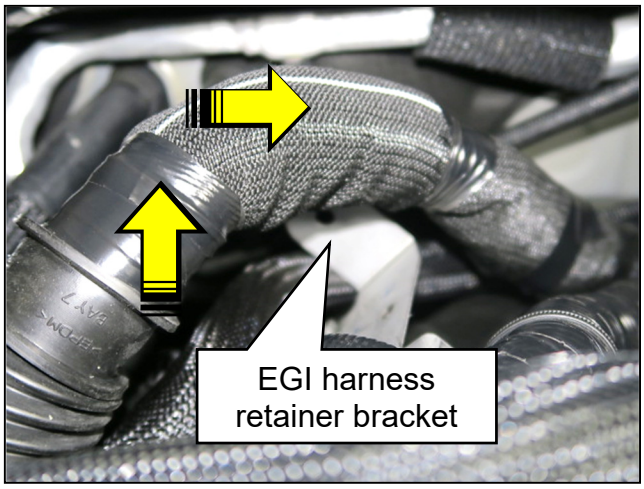


Figure 9

8. Carefully move the heater hose, shown in Figure 10, down and hook it behind the EGI harness retainer bracket to allow unobstructed access to the EGI harness.

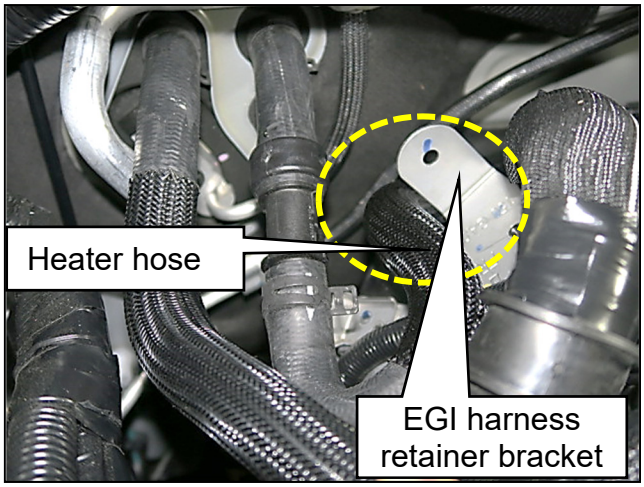


Figure 10

9. Using a suitable tool, remove and discard the banded harness retainer shown in Figure 11.

   - The banded harness retainer will be replaced during reassembly.

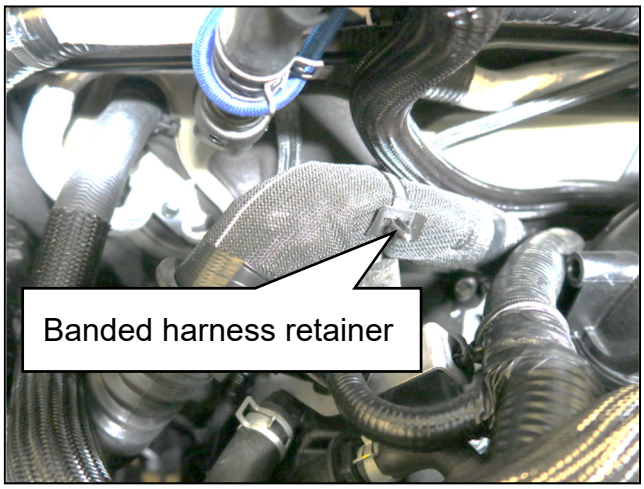


Figure 11

NOTICE

To avoid damage to the harness, do NOT use a sharp cutting tool to remove the vinyl tape.

10. Carefully remove the vinyl tape to expose the area above the rubber harness protector, shown in Figure 12.

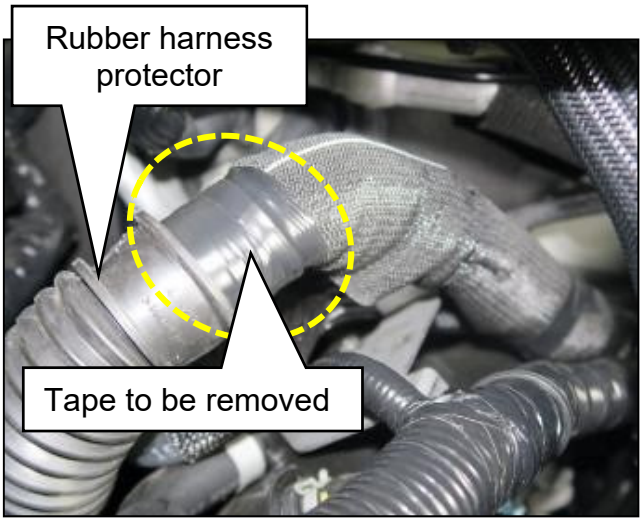


Figure 12

11. Carefully roll the end of the rubber harness protector, and then pull it in the direction shown in Figure 13 to expose the foam insulator and the tape securing the mesh harness protector.

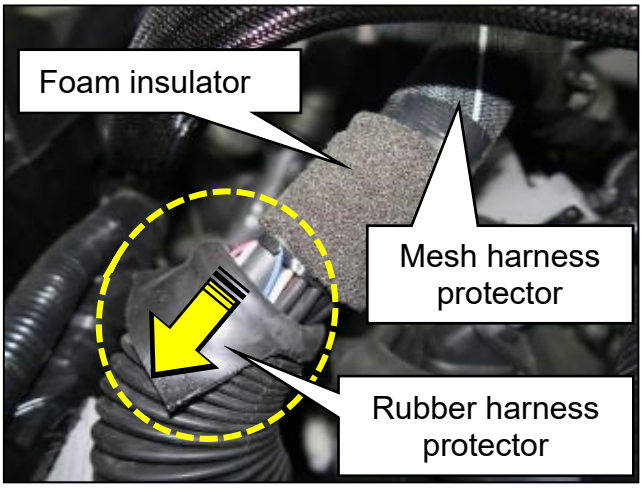


Figure 13

NOTICE

To avoid damage to the harness, do NOT use a sharp cutting tool to remove the foam insulator.

12. Carefully remove the foam insulator and the tape that it is attached to. Refer to Figure 14 and Figure 15.

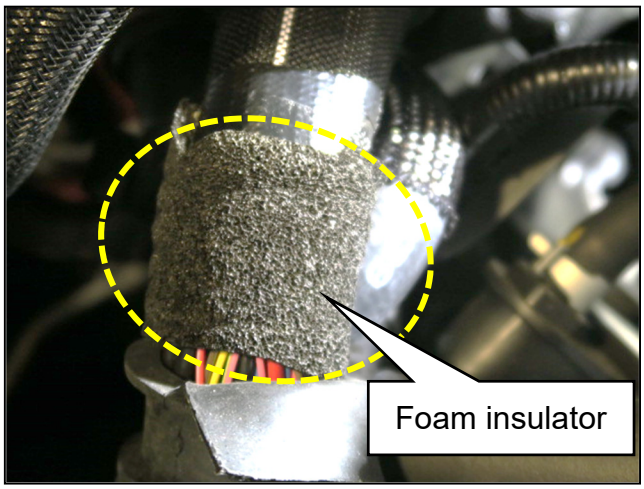


Figure 14

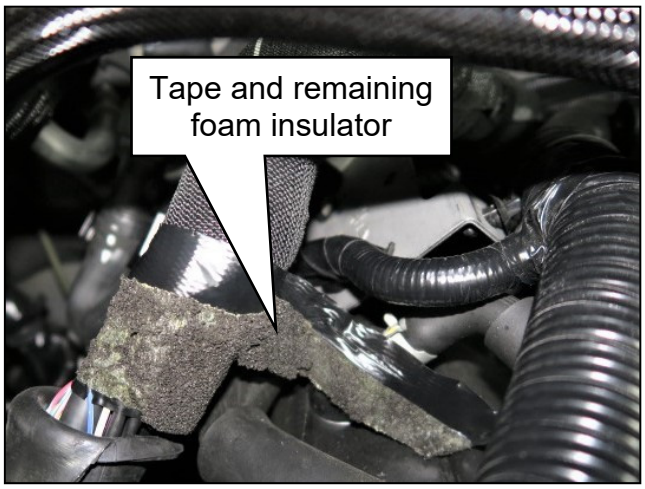


Figure 15

13. To expose the harness, carefully move the mesh harness protector toward the back of the engine, as shown in Figure 16.

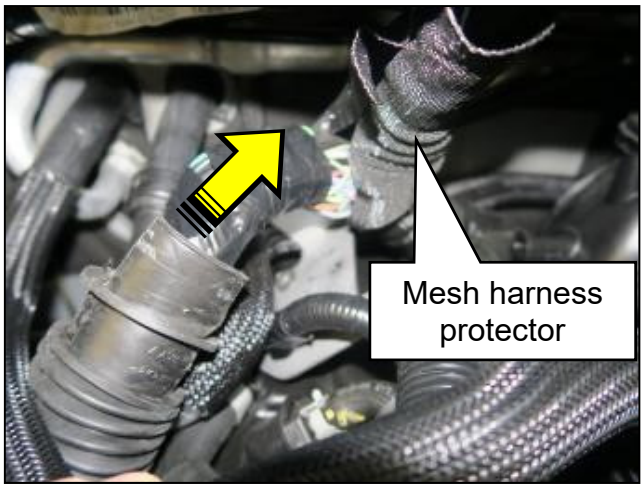


Figure 16

NOTICE

To avoid damage to the harness, do NOT use a sharp cutting tool to remove the vinyl tape.

14. Carefully remove the vinyl tape that bundles the harness together.

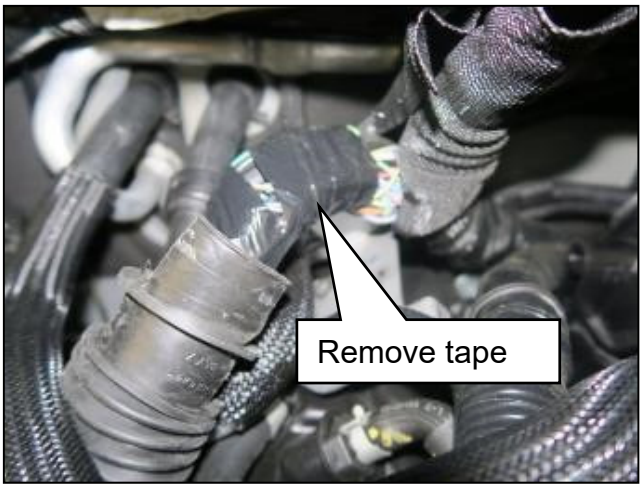


Figure 17

15. Identify the transmission power supply wire for repair.

    - The transmission power supply wire is located near the center of the EGI harness.
    - The transmission power supply wire is completely wrapped with vinyl tape.

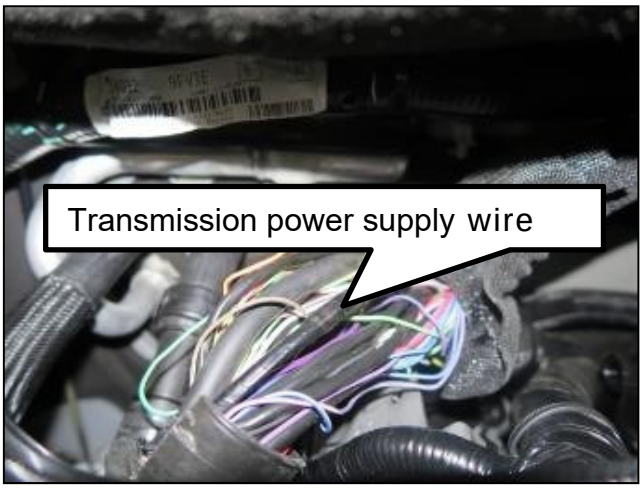


Figure 18

16. Locate the affected splice within the transmission power supply wire.

    - The splice will be located near the large harness retaining clip.
    - The splice can be located by feeling for a raised section on the wire.

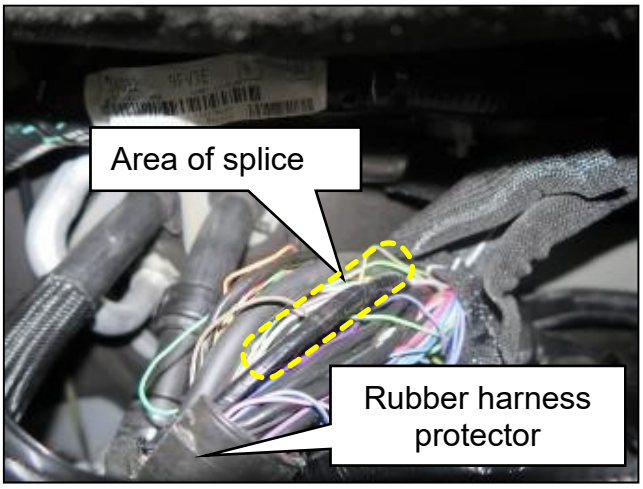


Figure 19

NOTICE

To avoid damage to the harness, do NOT use a sharp cutting tool to remove the vinyl tape.

17. Carefully tear and unravel part of the vinyl tape to expose the blue aluminum-shielding tape.

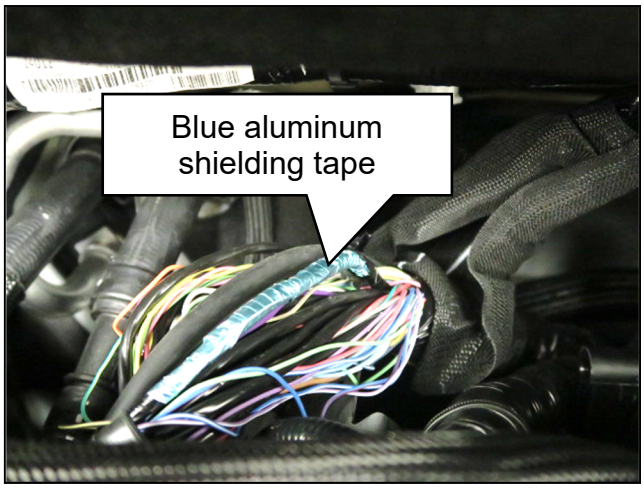


Figure 20

18. Carefully remove the blue aluminum-shielding tape from the harness to expose the splice.

    - The entire splice and part of the red wire insulation MUST be exposed.

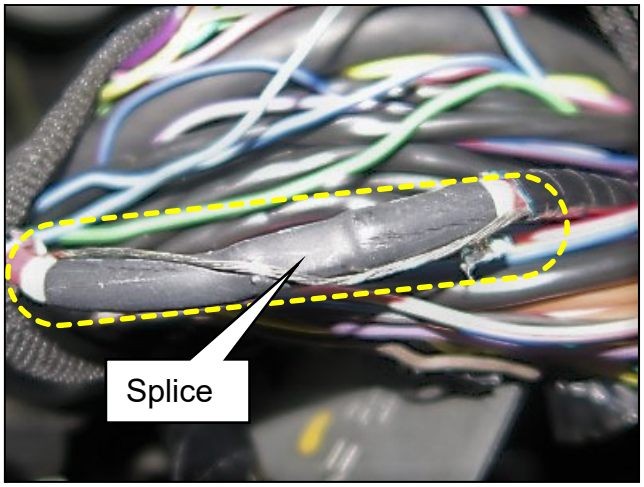


Figure 21

Transmission Power Supply Splice Repair

NOTE: Refer to the parts information section to become familiar with the contents of the EGI harness repair kit.

19. Separate the bare ground drain wire from the splice (Figure 22).

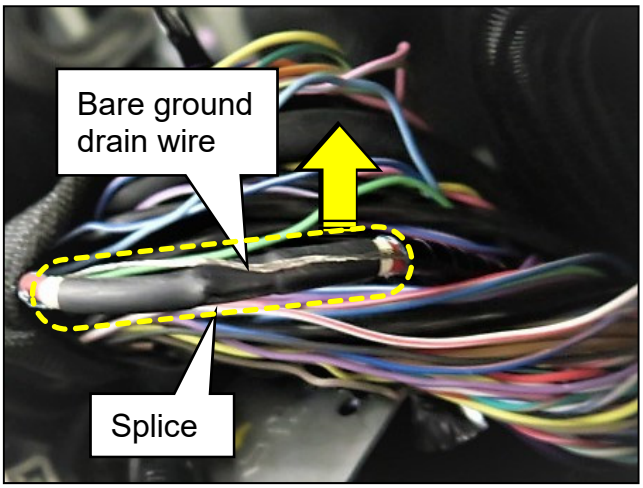


Figure 22

20. Cover the splice with the butyl strips (M4117008), while making sure the bare drain wire is **NOT** covered with the butyl.
    a. Center the first butyl strip onto the splice as shown in Figure 23.
    b. Press the butyl strip onto the splice and remove the backing.
    c. Center the second butyl strip onto the uncovered portion of the splice.
    d. Press the butyl strips together around the splice.

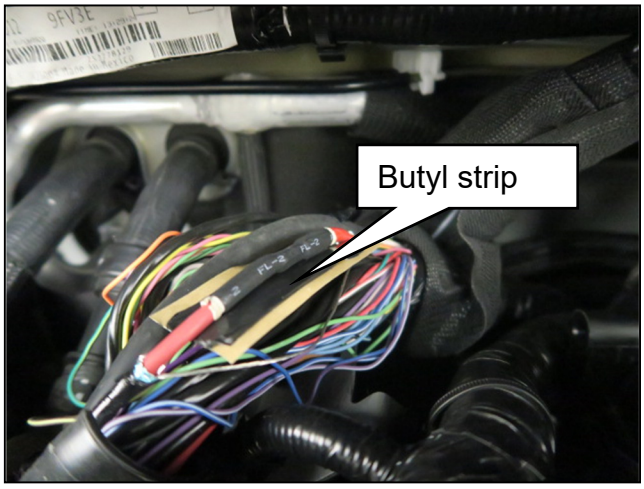


Figure 23

    e. Remove the backing from the second butyl strip.
    f. Verify the entire splice is covered, as shown in Figure 24.

NOTICE

To avoid damage to the vehicle, ensure the bare ground drain wire is NOT covered by the butyl strips.

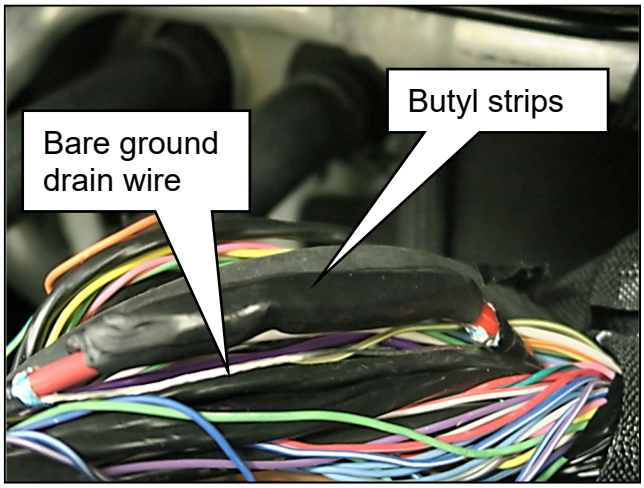


Figure 24

21. Carefully wrap a 4.5-inch long section of the black splice tape (M0537401) horizontally around the butyl making sure all of the butyl is covered.

    - Verify the bare ground drain wire is outside of the splice tape as shown in Figure 25.

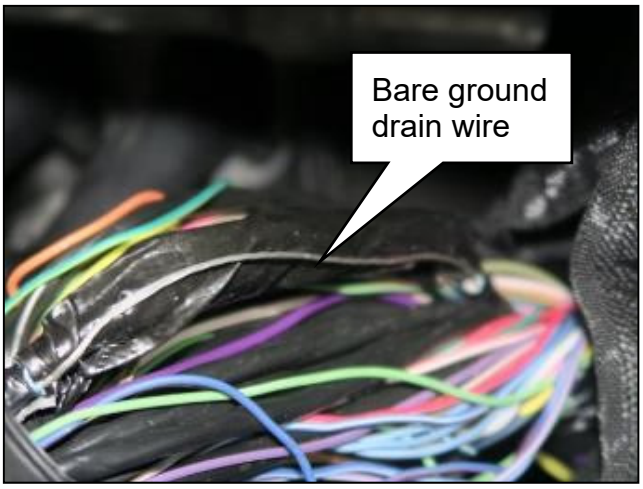


Figure 25

22. Wrap the transmission power supply wire and bare ground drain wire with the aluminum tape (M2173004-3M).

    a. Place the bare ground drain wire against the transmission power supply wire.
    b. Begin by wrapping the aluminum tape over the vinyl tape that was not removed during the repair.
    c. **Making sure the blue side is visible**, wrap the aluminum tape around the transmission power supply wire and the bare ground drain wire (Figure 26).
    d. Wrap the aluminum tape making sure to overlap it with each wrap.
    e. Ensure the repair area is completely overlapped with the new aluminum tape.

Figure 26

23. Wrap a 3-inch strip of the narrow black vinyl tape (M4042002) around the end of the aluminum tape to prevent it from unravelling.

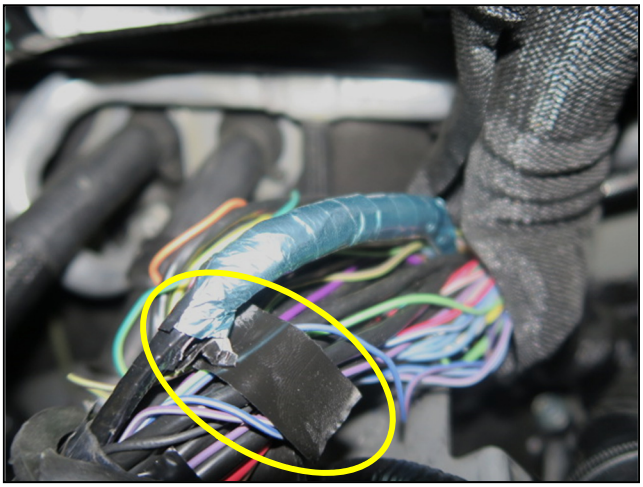


Figure 27

Perform Continuity Check

24. Disconnect the transmission power supply connector, F127, from the positive battery fusible link as shown in Figure 28.

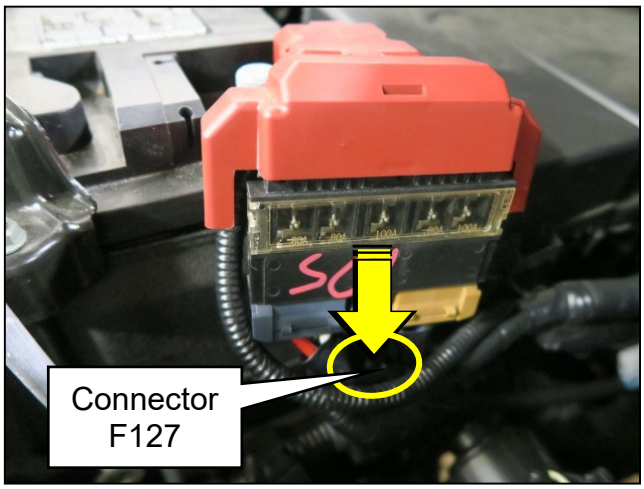


Figure 28

NOTICE

To avoid damage to the F127 connector terminal, only back probe the connector terminal, using the positive meter lead (Figure 29).

25. Using a DVOM, backprobe connector F127 and check for continuity to the negative battery cable (Figure 30).

- If there is no continuity, continue to step 26 on page 16.
- If continuity exists, remove the blue aluminum tape and verify the bare ground drain wire is NOT covered by the butyl and recheck for continuity.
  - ➢ Once it is verified that continuity does not exist, rewrap the transmission power supply wire and the bare ground drain wire as stated in step 22 on page 14, then continue to step 26 on page 16.

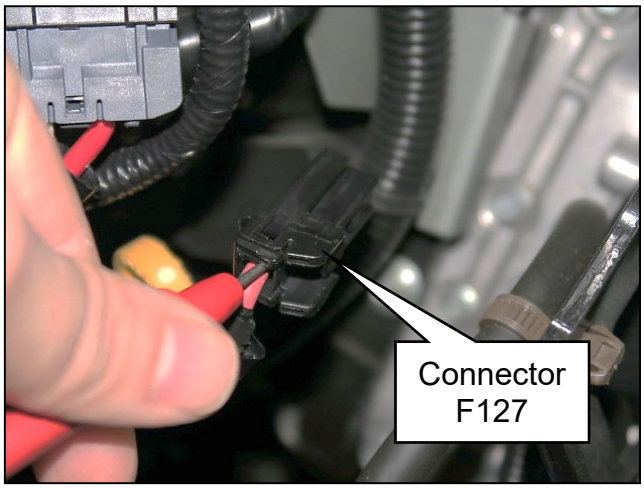


Figure 29

Figure 30

Harness Reassembly

26. Wrap the repair area with the black non-adhesive vinyl tape (M4515102).
    - Completely cover the repair area making sure to overlap the tape not removed during the repair.

27. Wrap a 3-inch strip of the narrow black vinyl tape (M4042002) around the end of the non-adhesive vinyl tape to prevent it from unravelling.

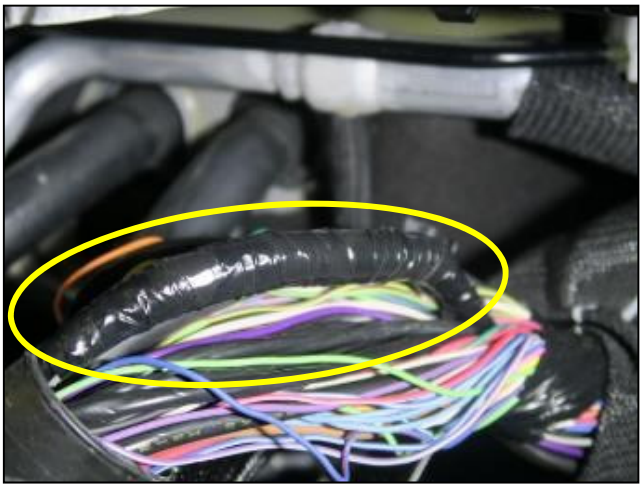


Figure 31

28. Tightly bundle the harness together by hand and wrap the harness with the narrow vinyl tape (M4042002) to hold it together.

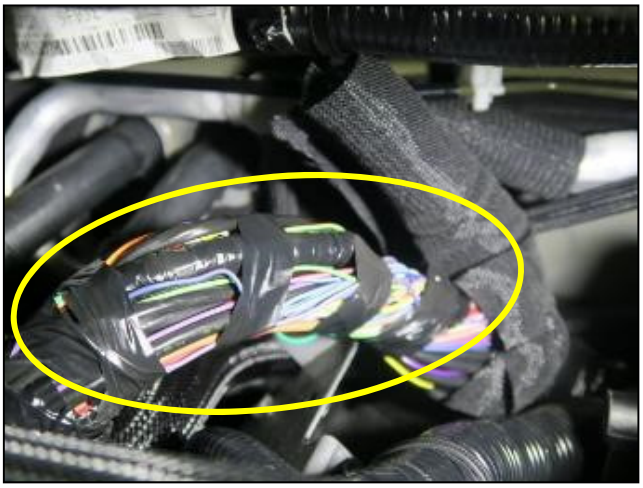


Figure 32

29. Place the mesh harness protector over the wires (Figure 33).

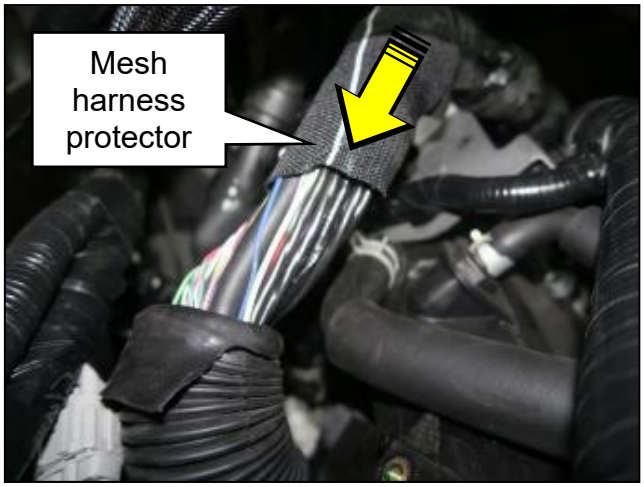


Figure 33

30. While holding the mesh harness protector in place, wrap the end of the mesh with the wide vinyl tape (M2306001) as shown in Figure 34.

Figure 34

31. Install the new foam insulator (13535124).
    - Remove the backing from the foam insulator.

    IMPORTANT: When installing the foam insulator, it cannot be removed. Make sure the position of the foam insulator is correct the first time.

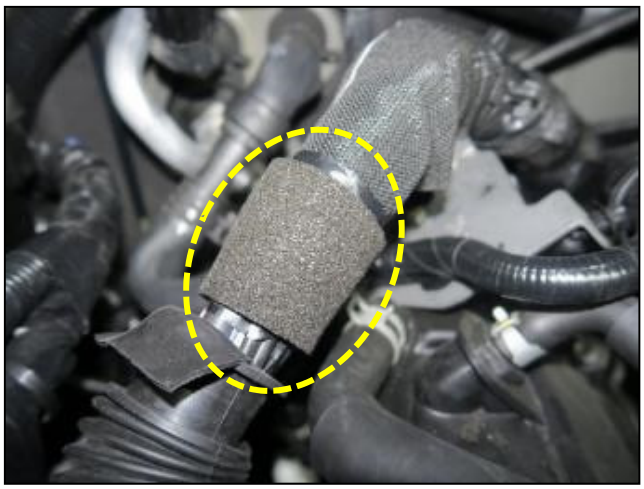


Figure 35

32. Move the rubber harness protector tongue over the mesh harness protector.

Figure 36

33. Secure the rubber harness protector tongue to the mesh harness protector using the narrow black vinyl tape (M4042002).

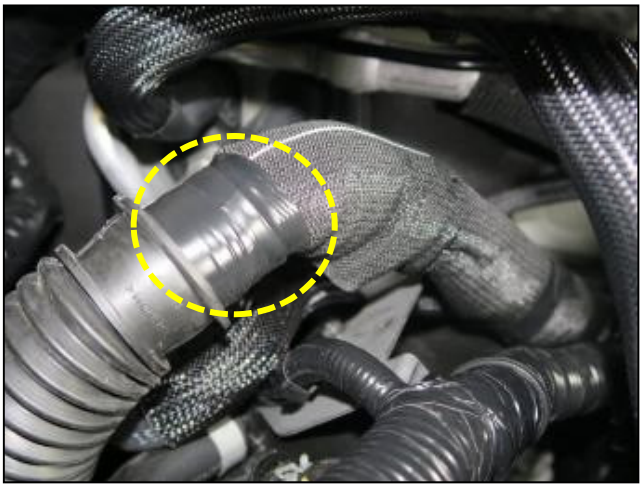


Figure 37

34. Move the heater hose to its original position.

35. Move the harness back into place, over the harness retainer bracket.

36. Install the harness into the large harness retainer and lock it into place as shown in Figure 38.

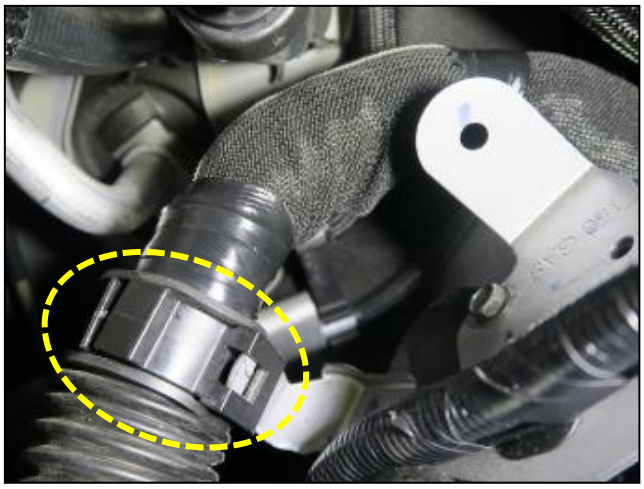


Figure 38

37. Install a new banded harness retainer from the repair kit onto the harness and attach it to the retainer bracket.
    - Tighten the band after attaching it to the retainer bracket.

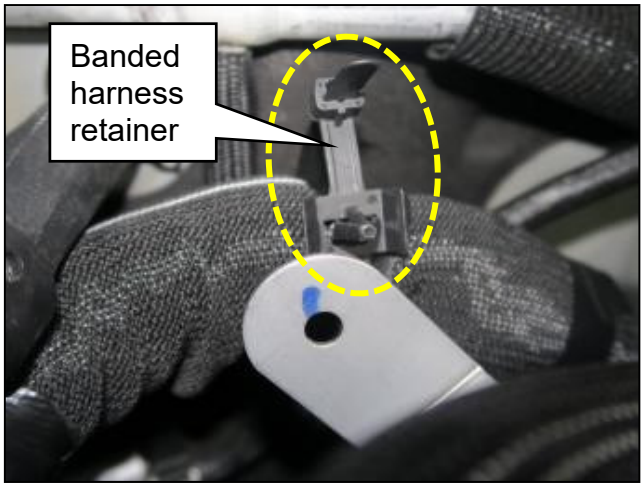


Figure 39

38. Trim the excess band.

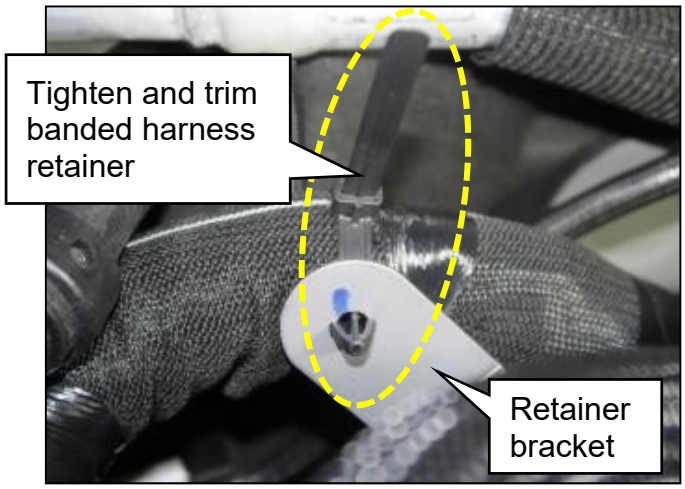


Figure 40

39. Reinstall the engine cover.

40. Reconnect the transmission power supply connector, F127, to the fusible link.

41. Reconnect the positive battery cable.
    - Torque the positive battery terminal nut to 5.5 N●m (**48 in-lb**).

42. Torque the fusible link box nuts on the top of the positive battery terminal to 13.5 N●m (120 in-lb).

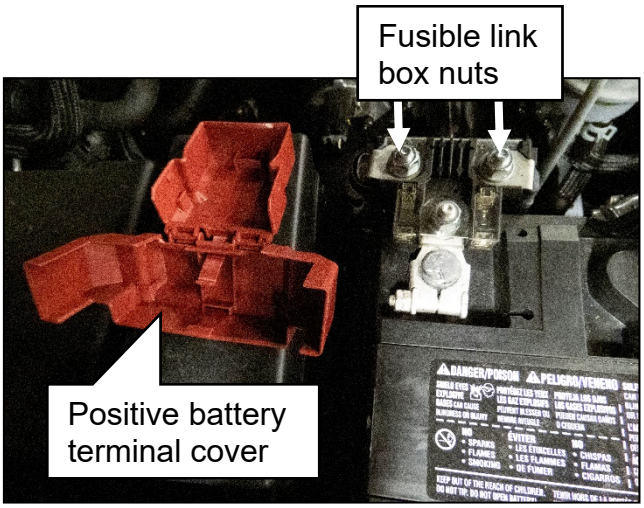


Figure 41

43. Reinstall the positive battery terminal cover.

44. Reconnect the negative battery cable.
    - Torque the negative battery terminal nut to 5.35 N●m (**47 in-lb**).

45. Remove the fender covers.

46. Reset the clock and the radio settings.

Check and Erase DTCs

47. Connect the CONSULT PC to the vehicle.

48. Start C-III plus.

49. Wait for the VI to be recognized.

50. Select **Diagnosis (All Systems)**.

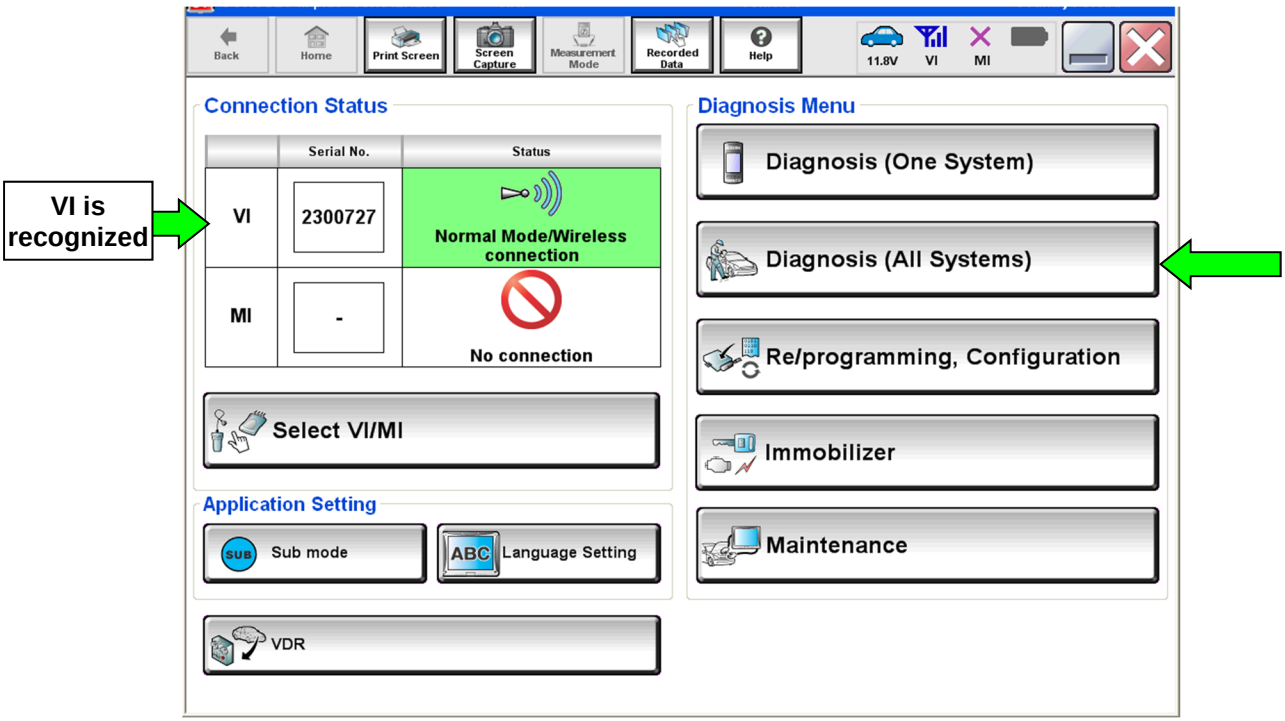


Figure 42

51. Select **Automatic Selection(VIN)**.

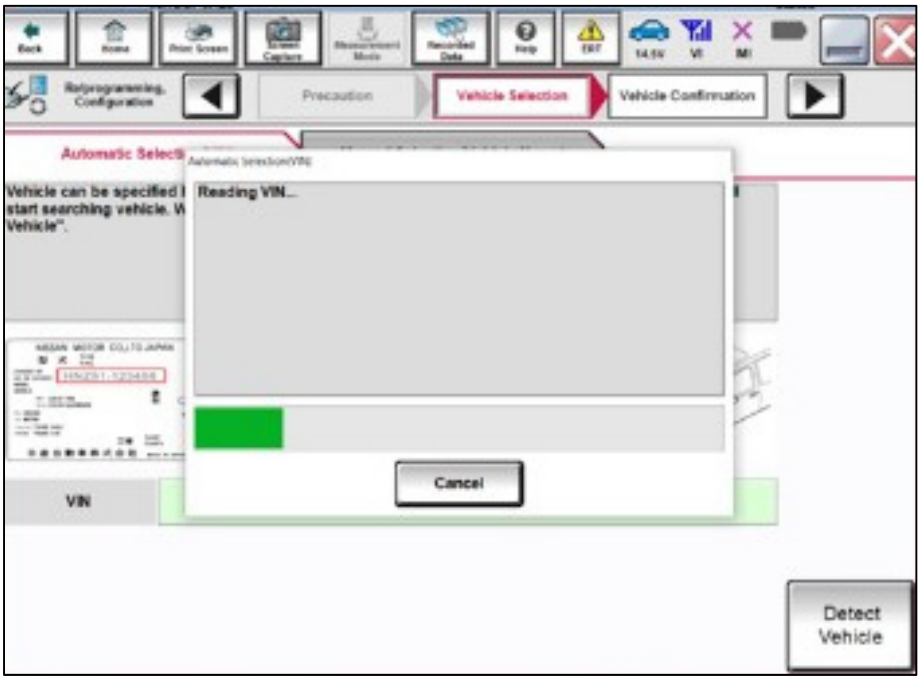


Figure 43

52. Confirm the **VIN**, **Vehicle Name**, and **Model Year** are correct, then select **Confirm**.

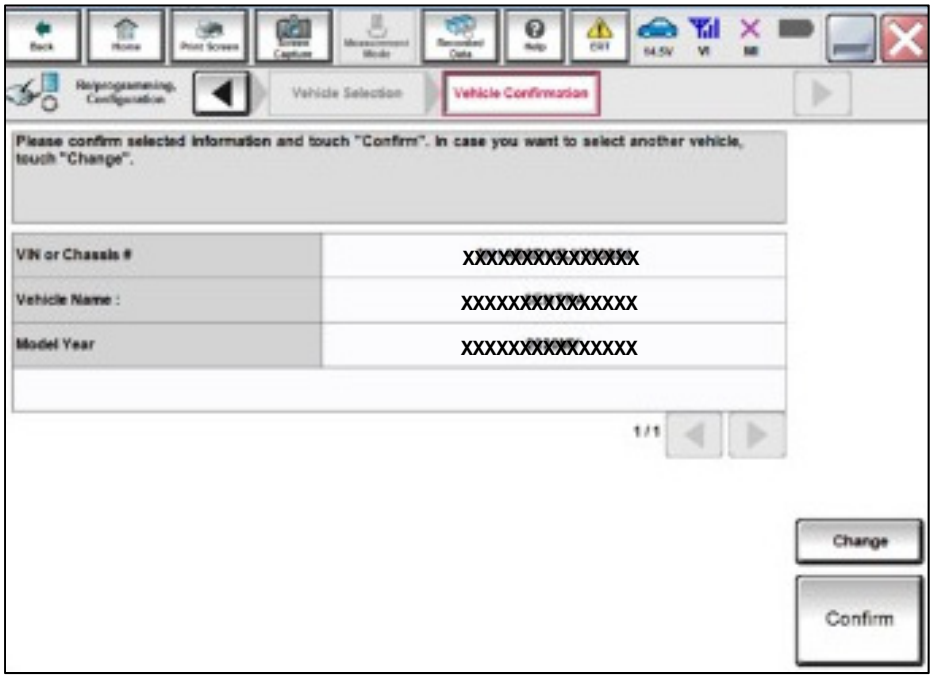


Figure 44

53. Select **ERASE**.

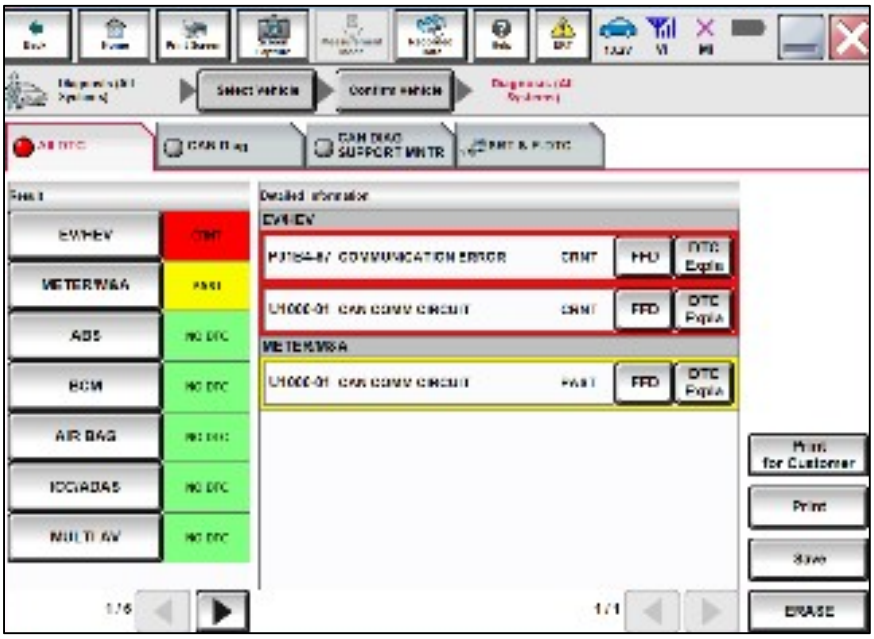


Figure 45

54. Select **Execute**.

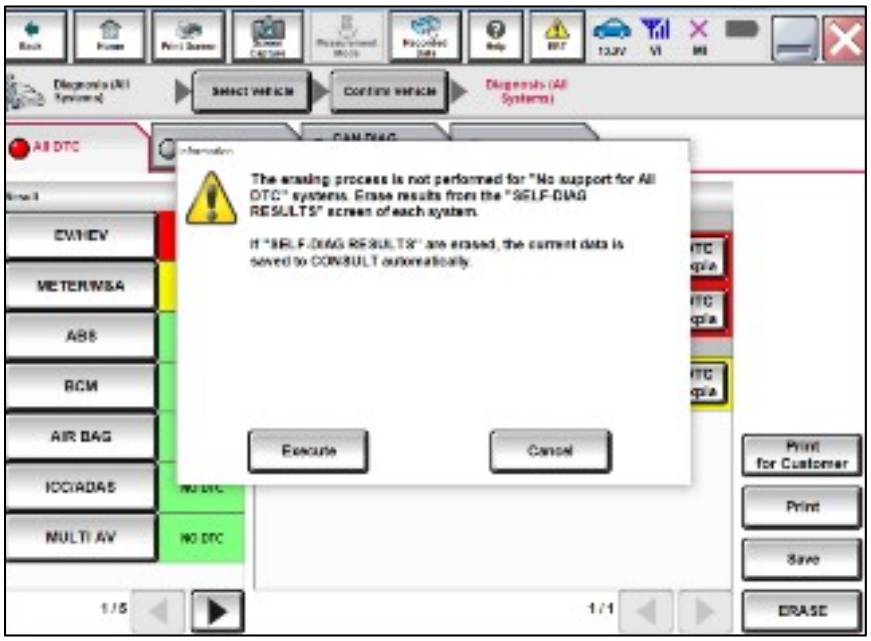


Figure 46

55. Select **Close**.

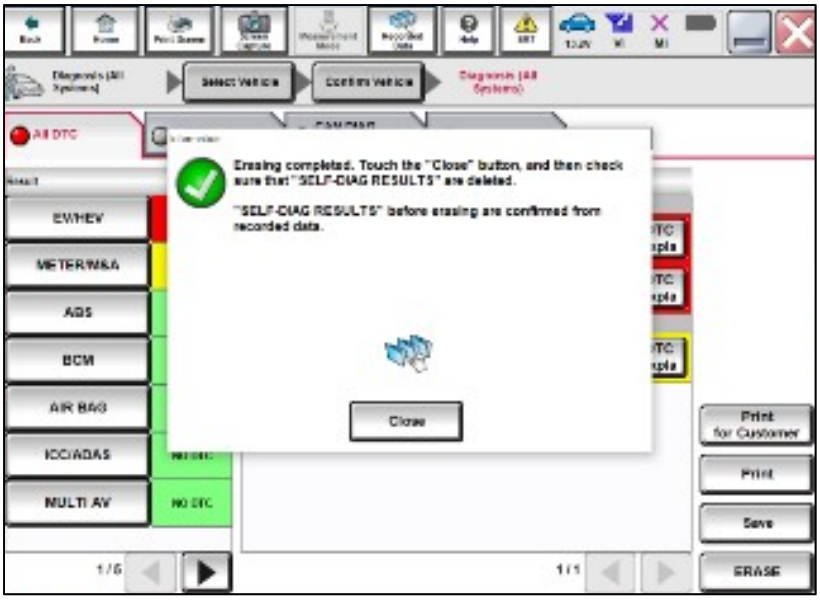


Figure 47

56. Close C-III plus.

57. Turn the ignition OFF.

58. Remove the VI.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
EGI HARNESS REPAIR KIT	240R2-9FV0B	1

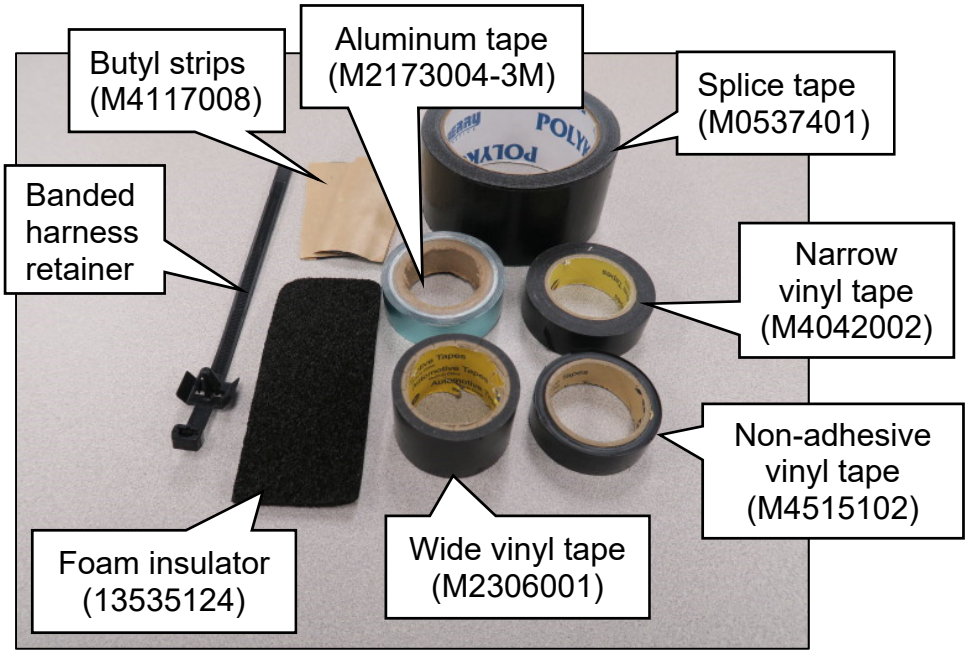


Figure 48

CLAIMS INFORMATION

Submit a “CM” line claim using the following claims coding:

CAMPAIGN (“CM”) ID	DESCRIPTION	OP CODE	FRT
PC773	Repair EGI harness	PC7730	1.2 hrs
	Replace EGI harness	Contact Warranty Call Center	

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
December 8, 2020	NTB20-089	Original bulletin published
April 13, 2021	NTB20-089A	Updated campaign type to safety and emission recall, Emission Recall Campaign Completion label information added.