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VOLUNTARY RECALL CAMPAIGN

Classification:	Reference:	Date:
EL23-017A	NTB23-057A	August 1, 2023

VOLUNTARY SAFETY RECALL CAMPAIGN
2018-2023 LEAF; VCM REPROGRAM

> **This bulletin has been amended. See AMENDMENT HISTORY on the last page.**
> **Please discard previous versions of this bulletin.**

CAMPAIGN ID #:   R23A6
APPLIED VEHICLES: 2018-2023 LEAF (ZE1)

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

INTRODUCTION

Nissan is conducting this voluntary safety recall campaign on certain specific model year 2018-2023 LEAF vehicles to reprogram the Vehicle Control Module (VCM). This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R23A6 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 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.

SERVICE PROCEDURE

IMPORTANT: Before starting, make sure:

- All C-III plus software updates (if any) have been installed.
- The CONSULT PC is connected to the internet (Wi-Fi or cable).

NOTICE

- Make sure the VI is securely connected. If the VI connection is loose during reprogramming, reprogramming may be interrupted and the VCM may be damaged.
- Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and the VCM may be damaged.
- Do NOT use a standard battery charger for Hybrid/Electric vehicles. Make sure to connect the battery maintainer/smart charger securely to the 12V battery. Make sure the battery voltage stays between 12.0V and 13.5V during reprogramming. If the battery voltage does NOT stay between 12.0V and 13.5V during reprogramming, the VCM may be damaged.
- Turn OFF all external Bluetooth® devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth® signal waves are within range of the CONSULT PC or VI during reprogramming, reprogramming may be interrupted and the VCM may be damaged.

1. Connect the VI to the vehicle.

2. Connect the AC Adapter to the CONSULT PC.

3. Turn the EV system ON (Not Ready) mode, by pressing the power switch two (2) times WITHOUT depressing the brake pedal.

   - Verify the radio, headlamps and HVAC are all turned OFF.
   - Turn the hazard warning lamps ON and leave them on for the duration of the reprogram.

4. Start C-III plus.

5.   If prompted, select **USA/CANADA Dealers** from the drop down menu, and then select **OK.**

6.   If the Script Error shown in Figure 1 is present, select **Yes**.
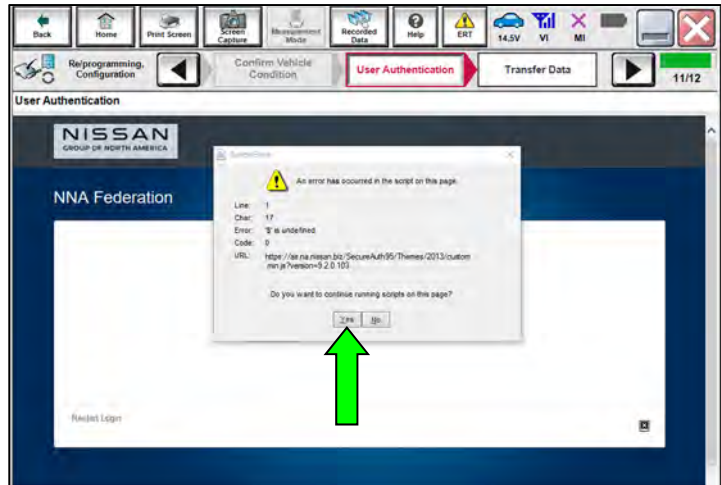

Figure 1

7.   Wait for the VI to be recognized (Figure 2).

•   The serial number will display when the VI is recognized.

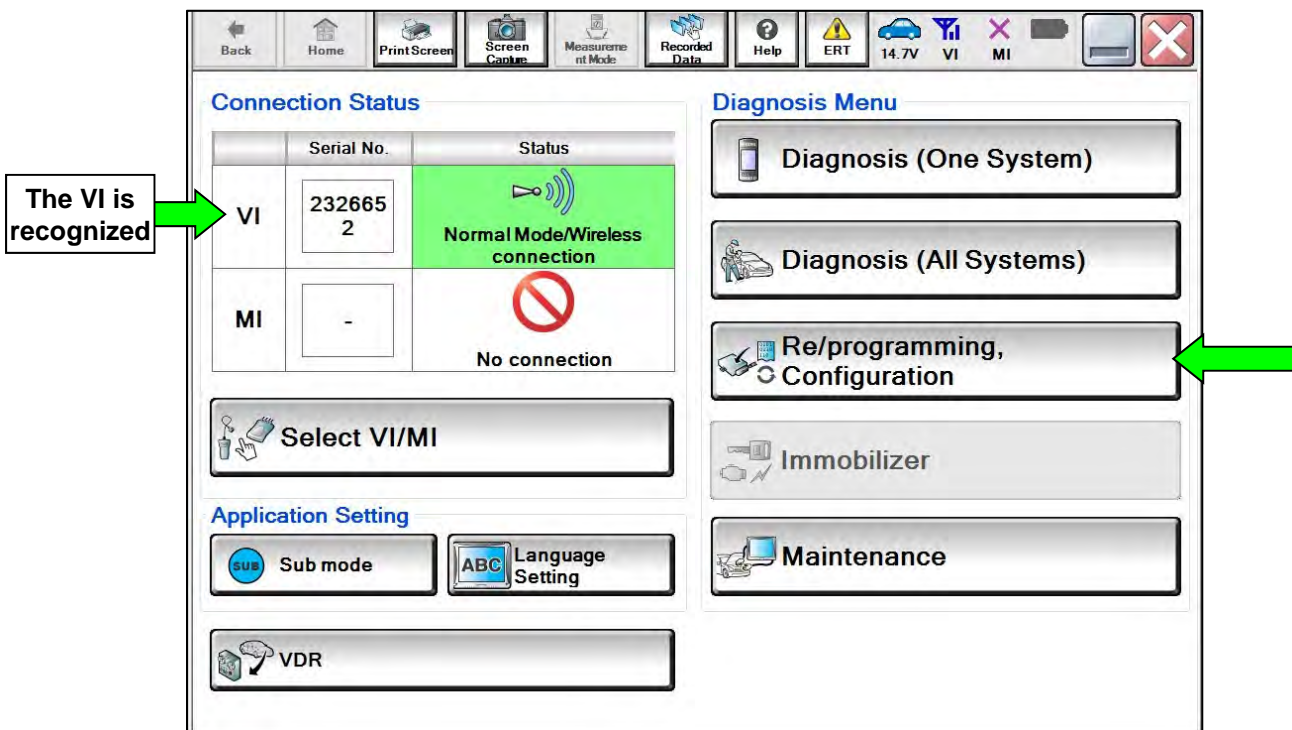8.   Select **Re/programming, Configuration**.

Figure 2

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9. Check the box to confirm the precaution instructions have been read, and then select **Next**.

HINT: Use the arrows (if needed) to view and read all the precautions.
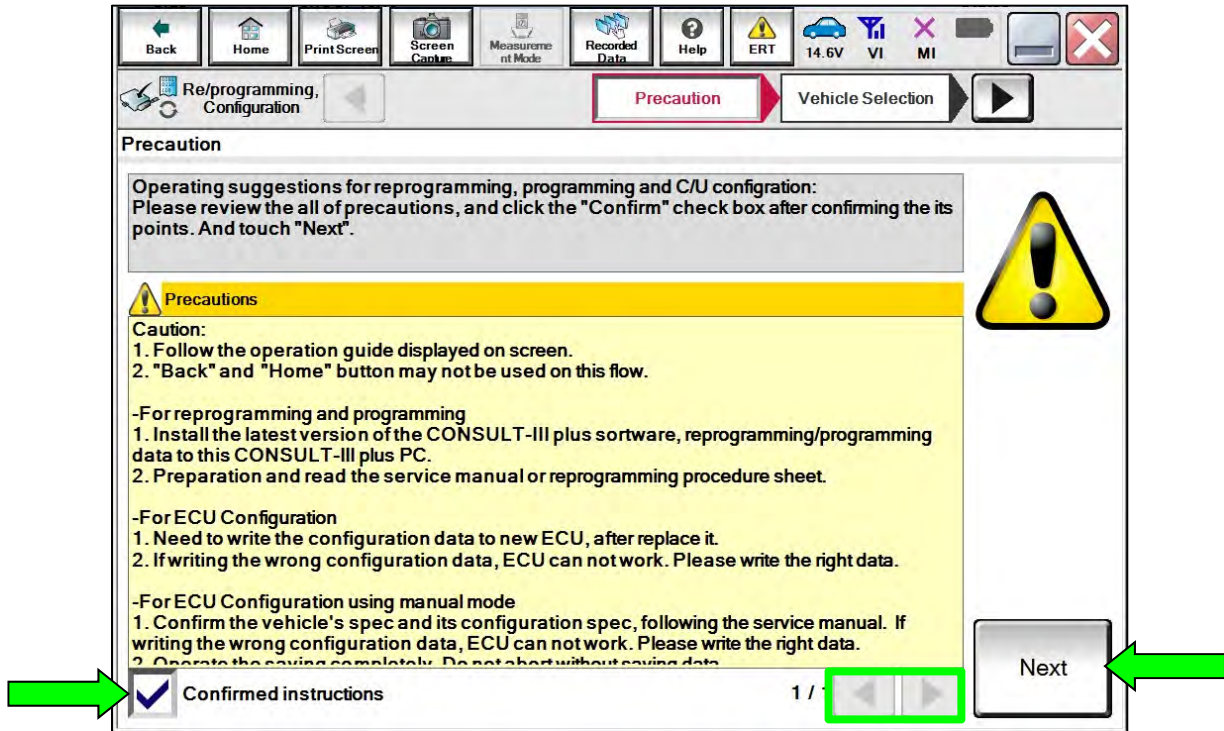
Figure 3

10. Select **Automatic Selection(VIN)**.
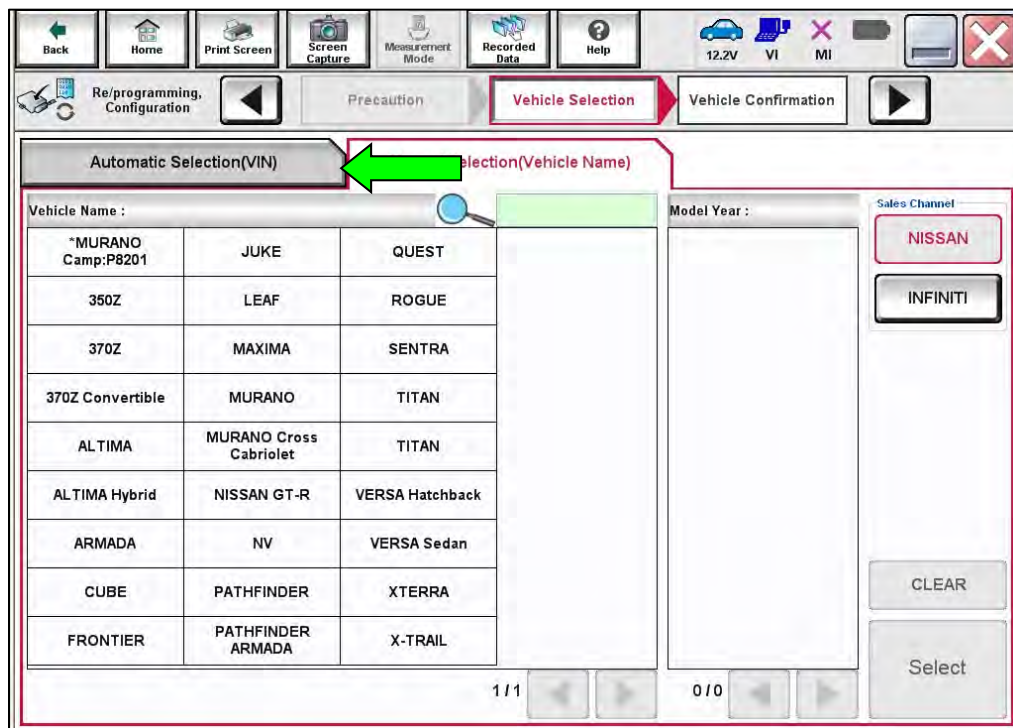
Figure 4

11. Allow the VIN to be detected.

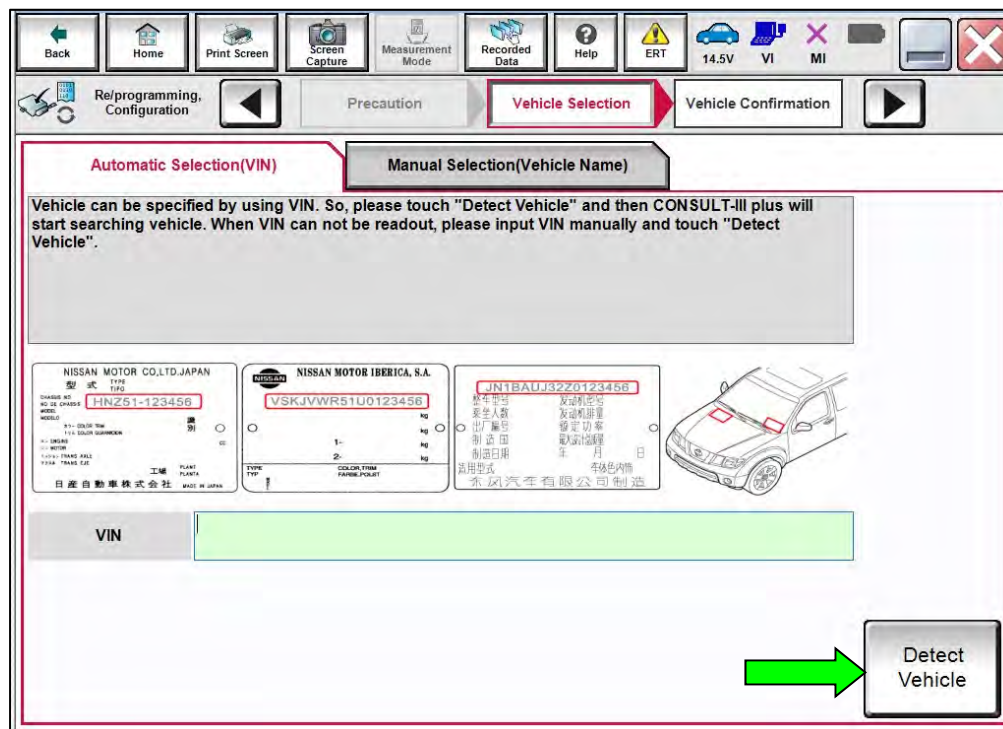- If the VIN is not automatically detected, select **Detect Vehicle**.

Figure 5

12. Confirm the **VIN or Chassis #**, **Vehicle Name**, and **Model Year** are correct for the vehicle you are working on, and then select **Confirm**.
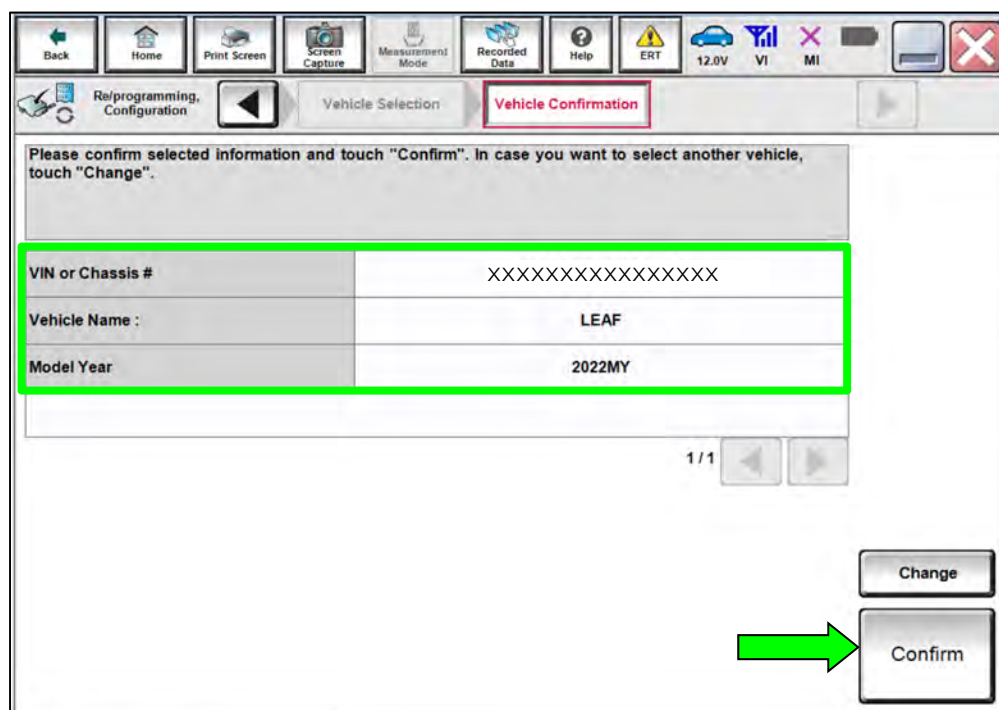

Figure 6

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13. Verify the **VIN** displayed is correct for the vehicle you are working on, and then select **Confirm**.
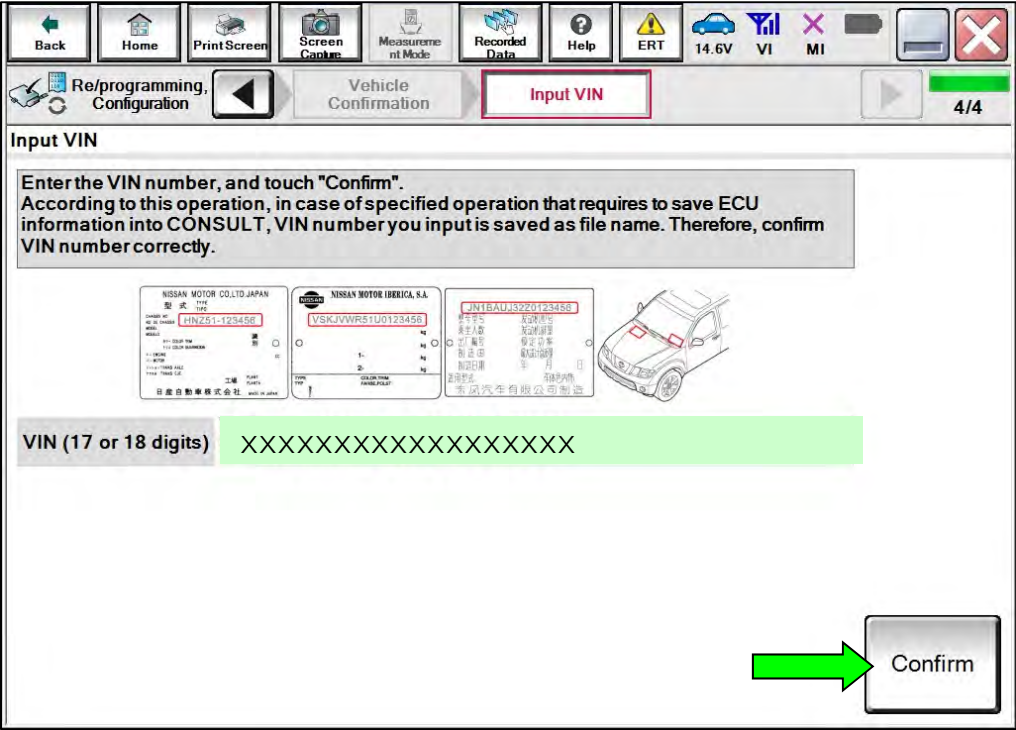

Figure 7

14. Select **EV/HEV**.
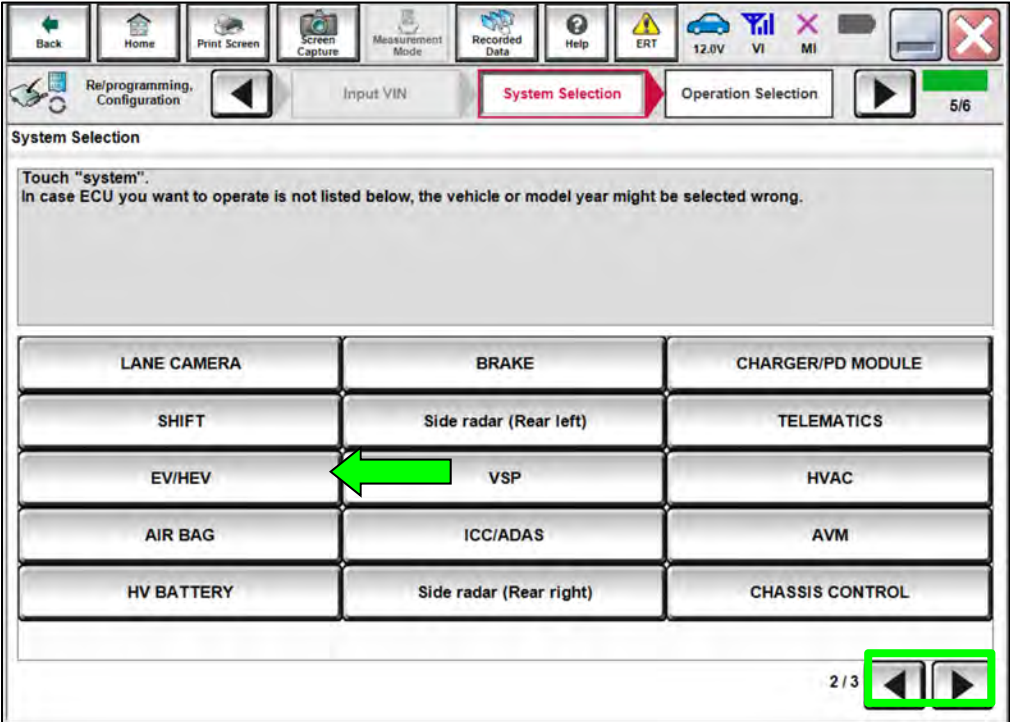
- Scroll to page 2 to select **EV/HEV**.

Figure 8

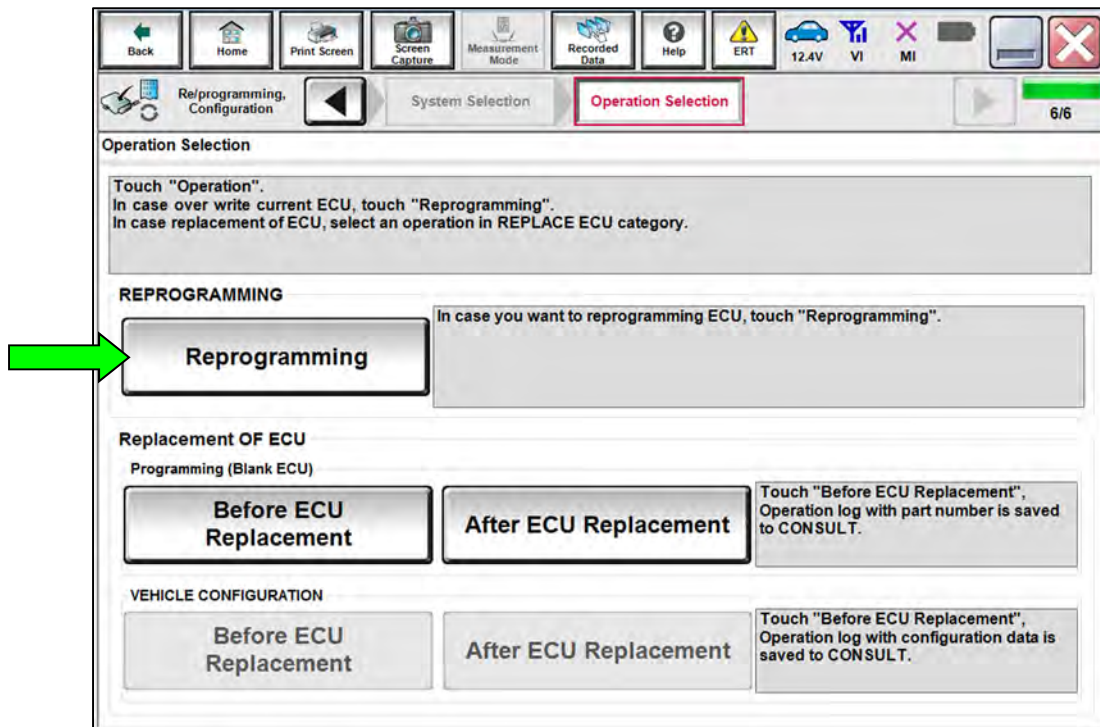NTB23-057A

15. Select **Reprogramming**.

Figure 9

16. Find the VCM **Part Number** and write it on the repair order, and then select **Save**.

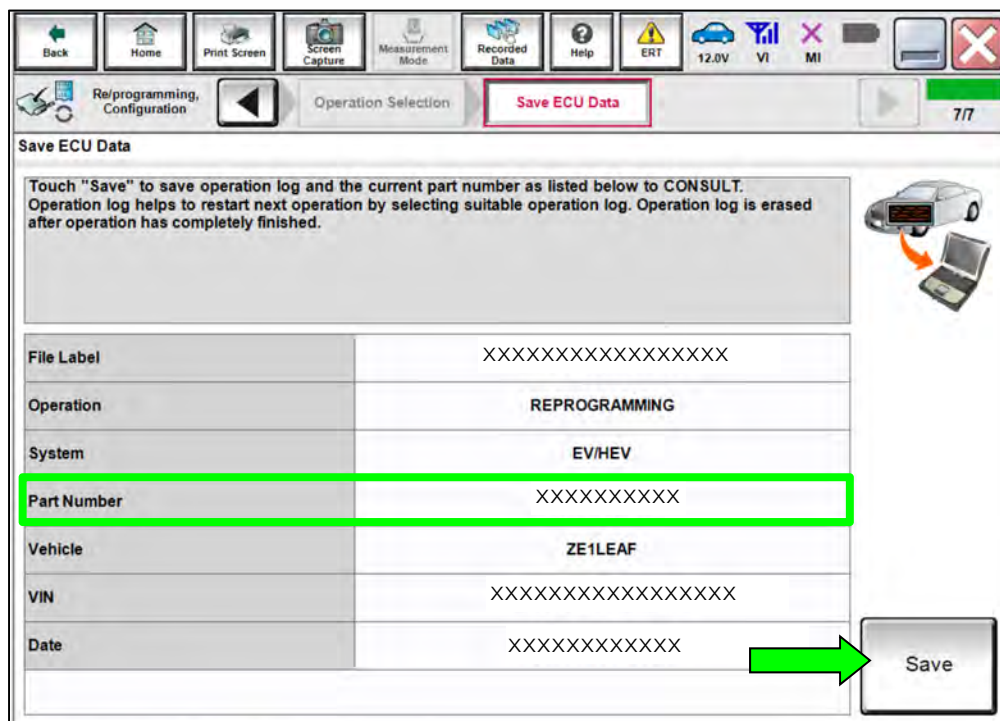- This is the current Part Number (P/N).

Figure 10

17. Compare the Part Number you wrote down in step 16 on page 7 to the numbers in the **Current VCM Part Number** column in **Table A** below.

- If there is a <u>match</u>, proceed to step 18 on page 9 to continue the reprogramming procedure.

- If there is <u>not a match</u>, reprogramming is not needed. Skip to **CLAIMS INFORMATION** on the last page.

Table A

Model Year	Current VCM Part Number: (237D0-*****)
2018	5SA2A, 5SA2B
	5SA3A, 5SA3B
	5SA4A, 5SA4B
	5SA5A, 5SA5B
	5SE0A, 5SE0B
	5SE1A, 5SE1B
	5SE2A, 5SE2B
2019-2023	5SG0A, 5SG0B, 5SG0C, 5SG0D
	5SG1A, 5SG1B, 5SG1C, 5SG1D
	5SG2A, 5SG2B, 5SG2C, 5SG2D
	5SG3A, 5SG3B, 5SG3C, 5SG3D
	5SG4A, 5SG4B, 5SG4C, 5SG4D
	5SG5A, 5SG5B, 5SG5C, 5SG5D
	5SG6A, 5SG6B, 5SG6C, 5SG6D
	5SV0A, 5SV1A, 5SV2A, 5SV3A

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18. Review the precaution instructions.

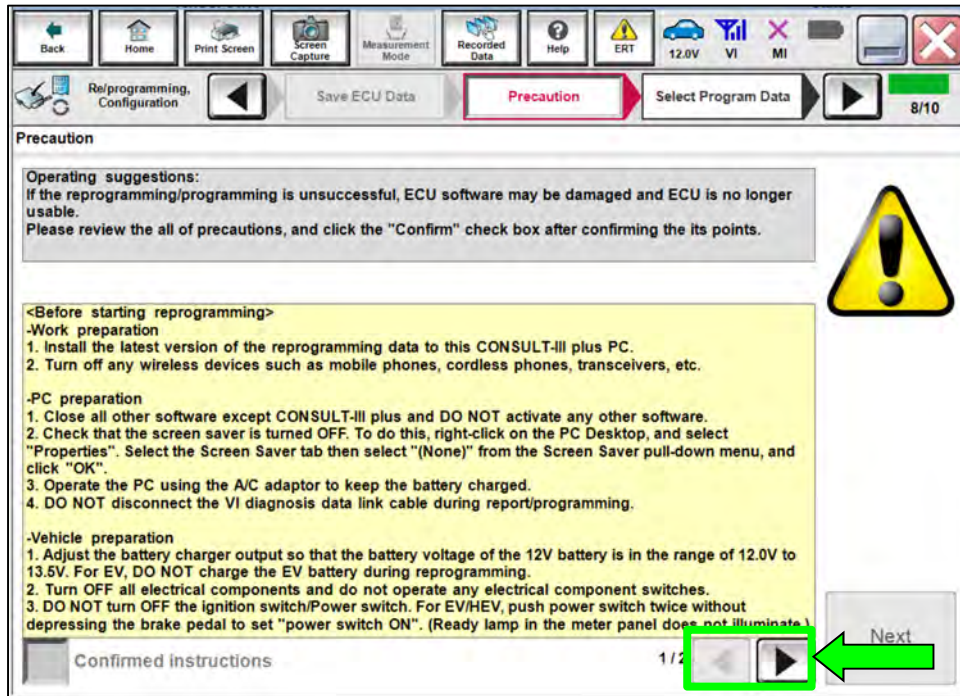   **HINT:** Use the arrows (if needed) to view and read all the precautions.

Figure 11

19. Check the box to confirm the precaution instructions have been read, and then select **Next**.
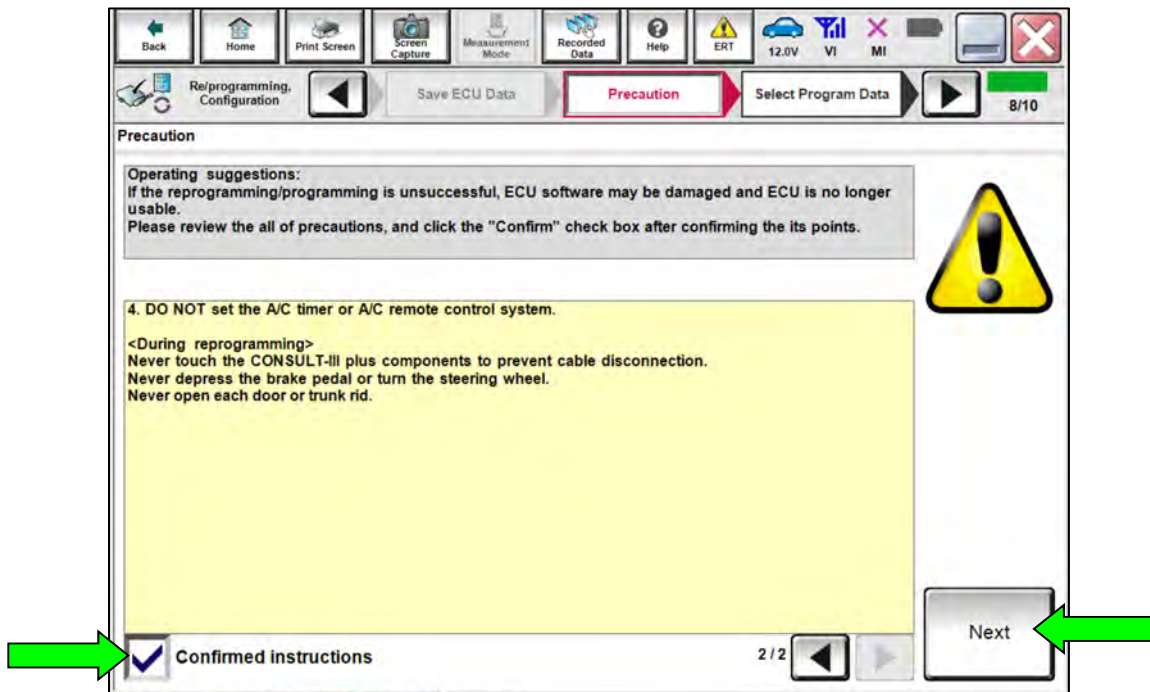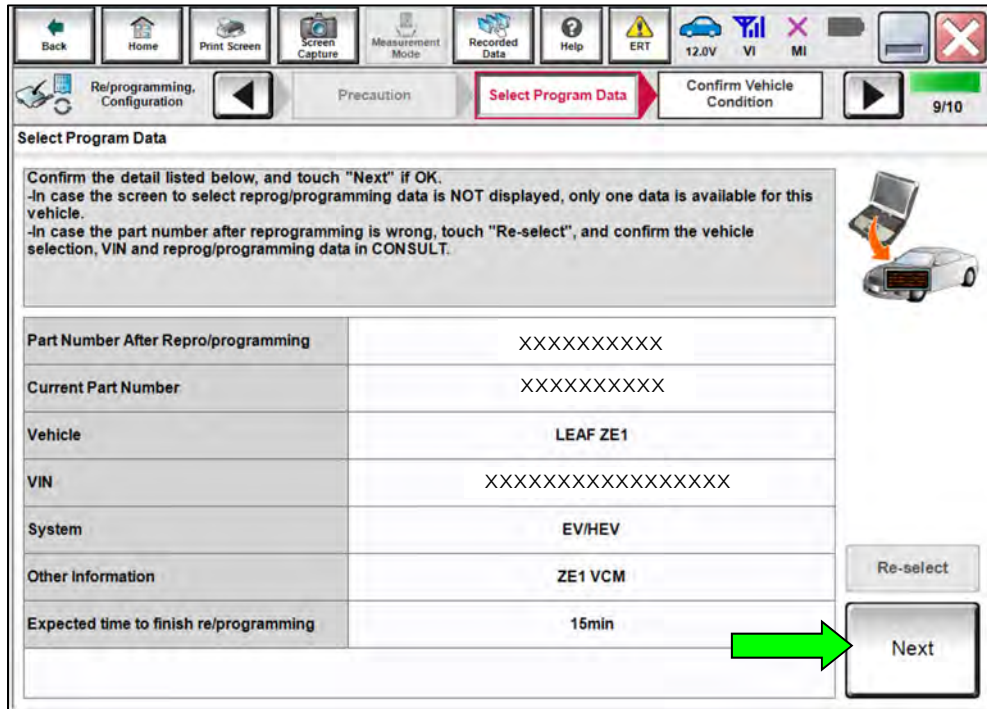

Figure 12

20.   Select **Next**.

Figure 13

21.   Confirm the battery voltage result is **OK**, and then select **Next**.

- If the battery voltage result is **NG**, verify the battery maintainer/smart charger is turned ON and is securely connected to the 12V battery.
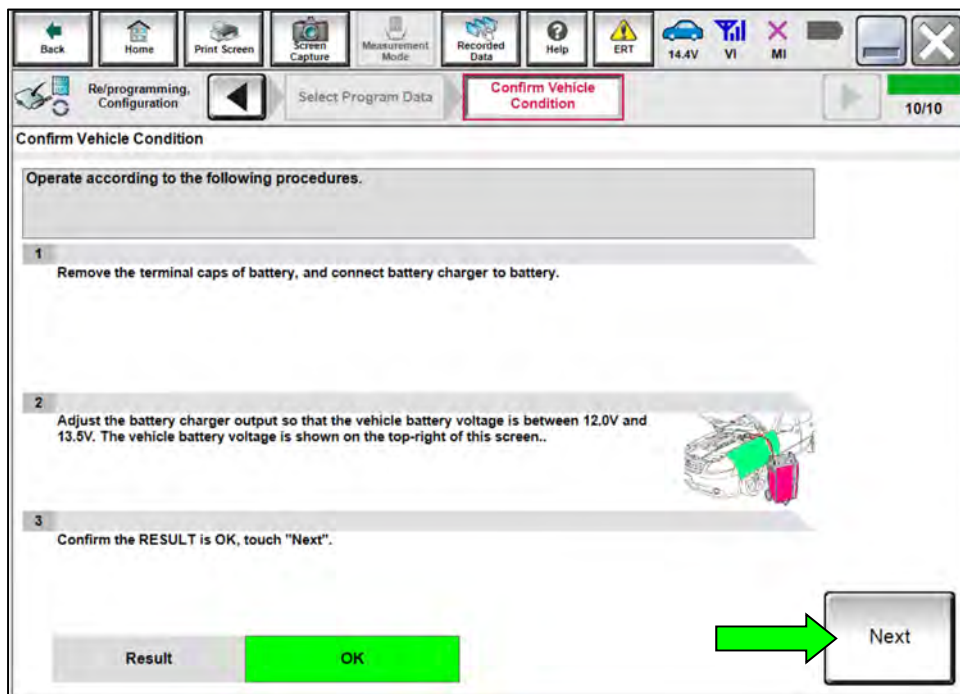

Figure 14

22. Confirm all items listed have a judgement of **OK**, and then select **Start**.

- The reprogramming process will take approximately 15 minutes.

- If any of the items shown in Figure 15 display a status of NG, verify the battery maintainer/smart charger is turned ON and is securely connected to the 12V battery, and ensure the vehicle is NOT in Ready mode.
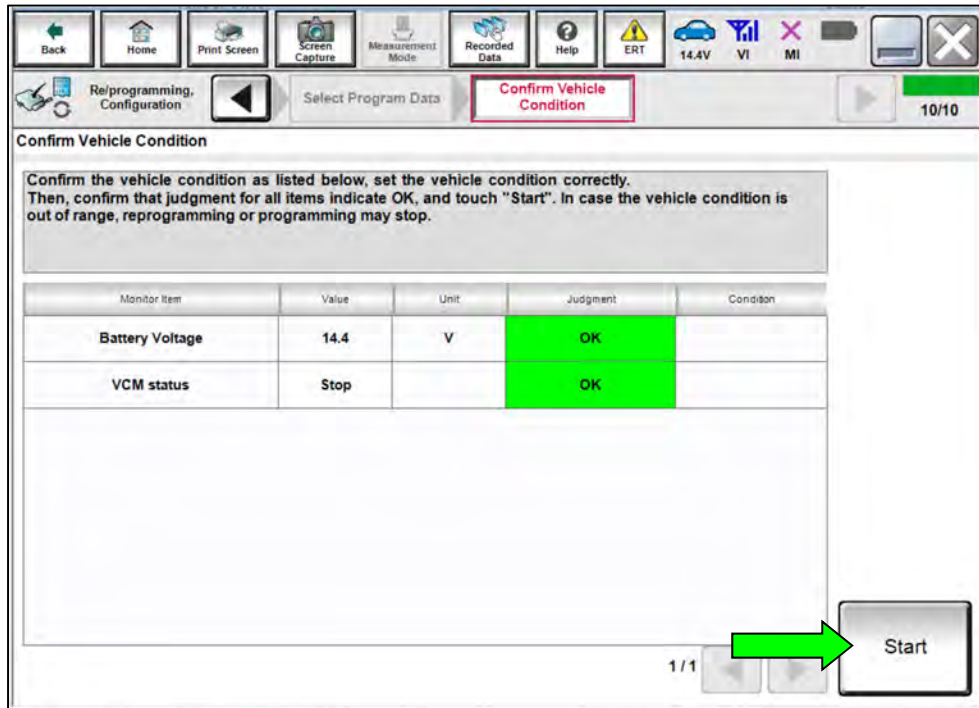

Figure 15

23. Once the screen in Figure 16 displays, the reprogramming is complete. Select **Next**.

- If the screen in Figure 16 does NOT display, indicating that reprogramming did <u>not</u> complete, refer to **VCM Recovery** on page 15.
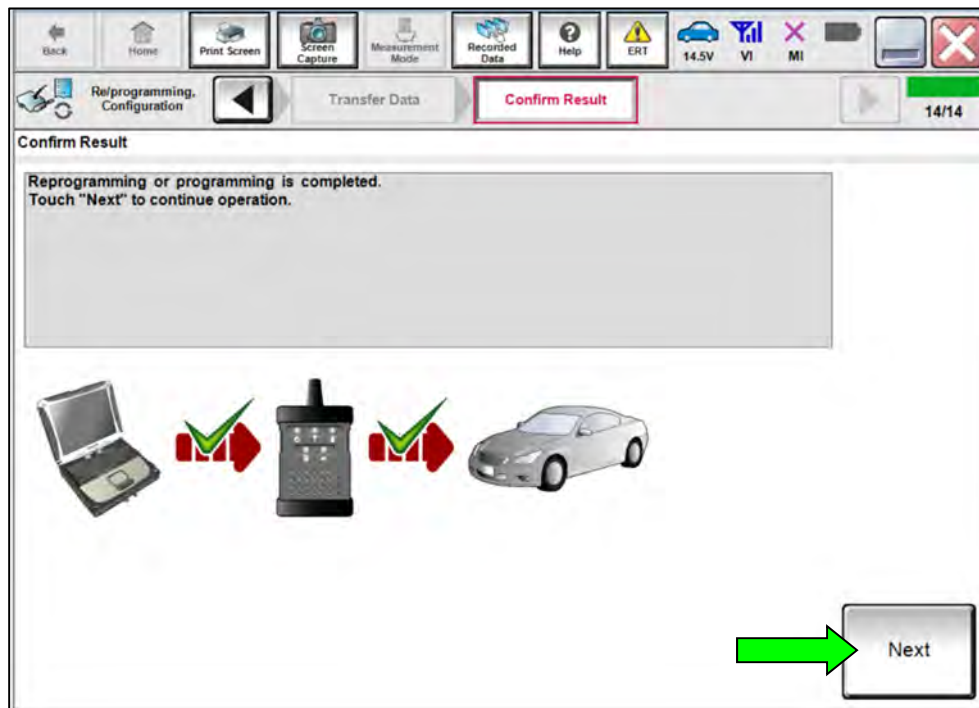

Figure 16

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24. Press the power switch one (1) time to turn the EV system OFF (Figure 17), and then go to step 25 immediately.
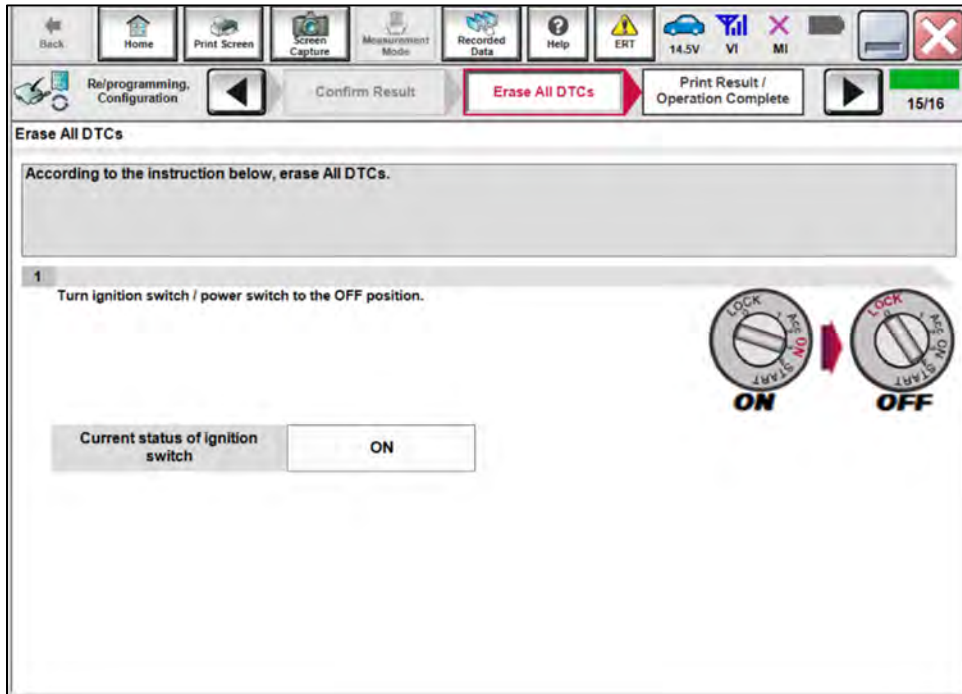

Figure 17

25. Press the power switch two (2) times to turn the EV system back on (Figure 18).

- C-III plus will automatically proceed to **Erasing DTCs**.

- If the current status of the ignition switch displayed on the screen differs from the status of the actual vehicle ignition switch, select **Next** to go to the next screen.
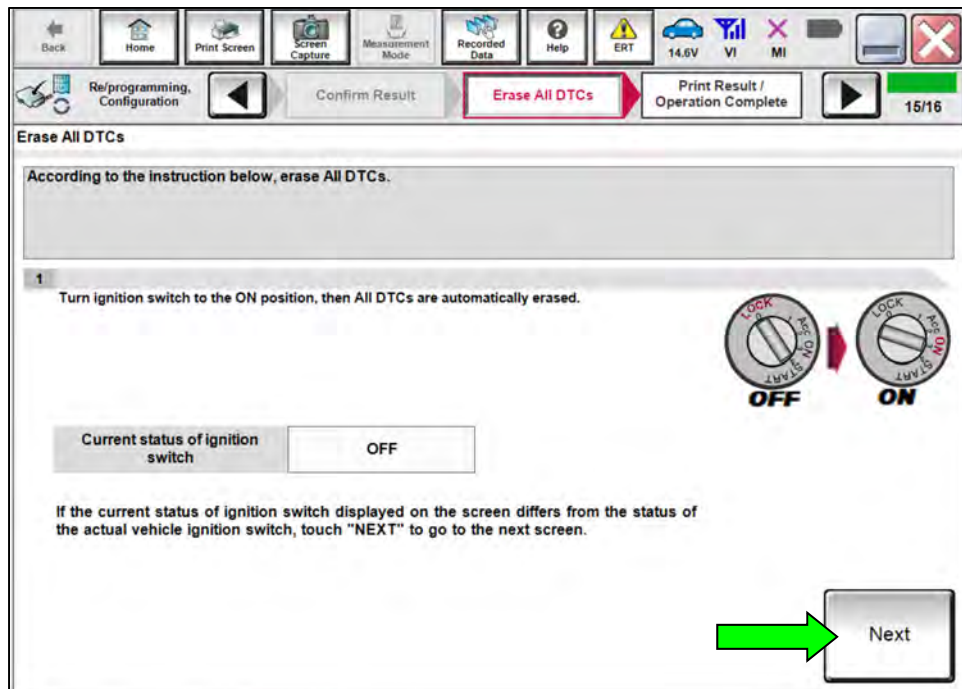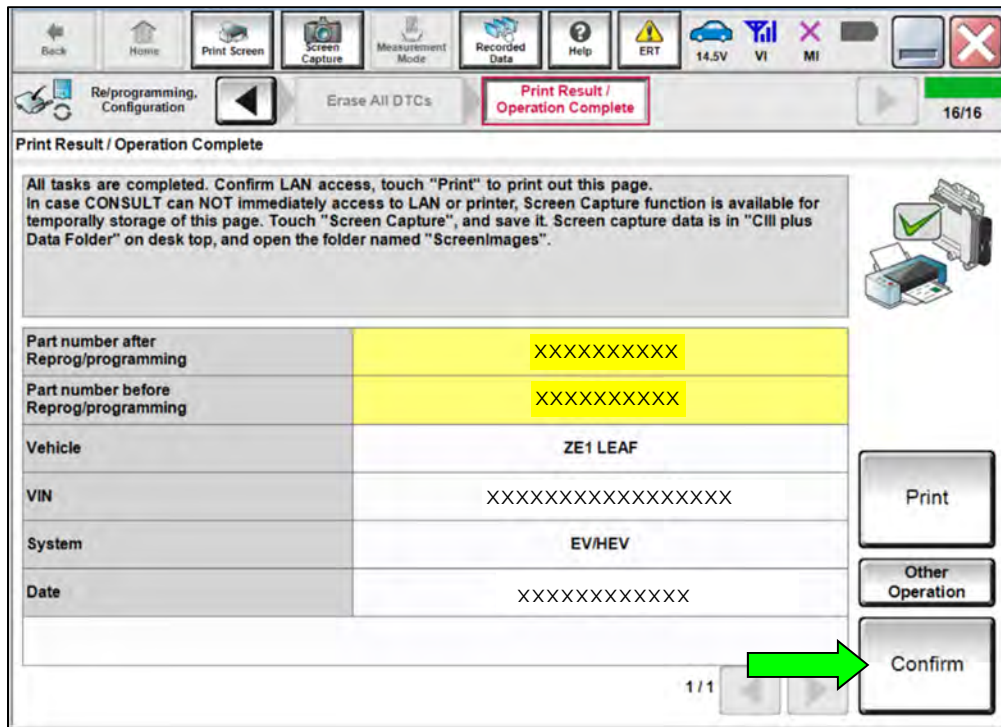

Figure 18

26. Select **Confirm**.

Figure 19
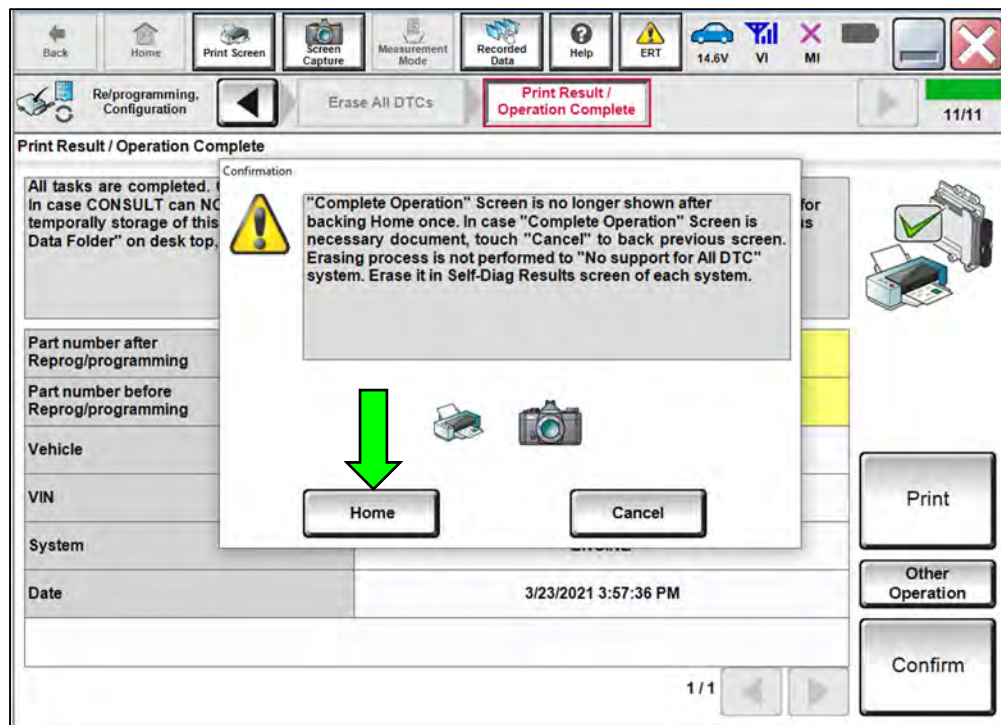
27. Select **Home**.

Figure 20

28. Disconnect the battery maintainer/smart charger from the vehicle.

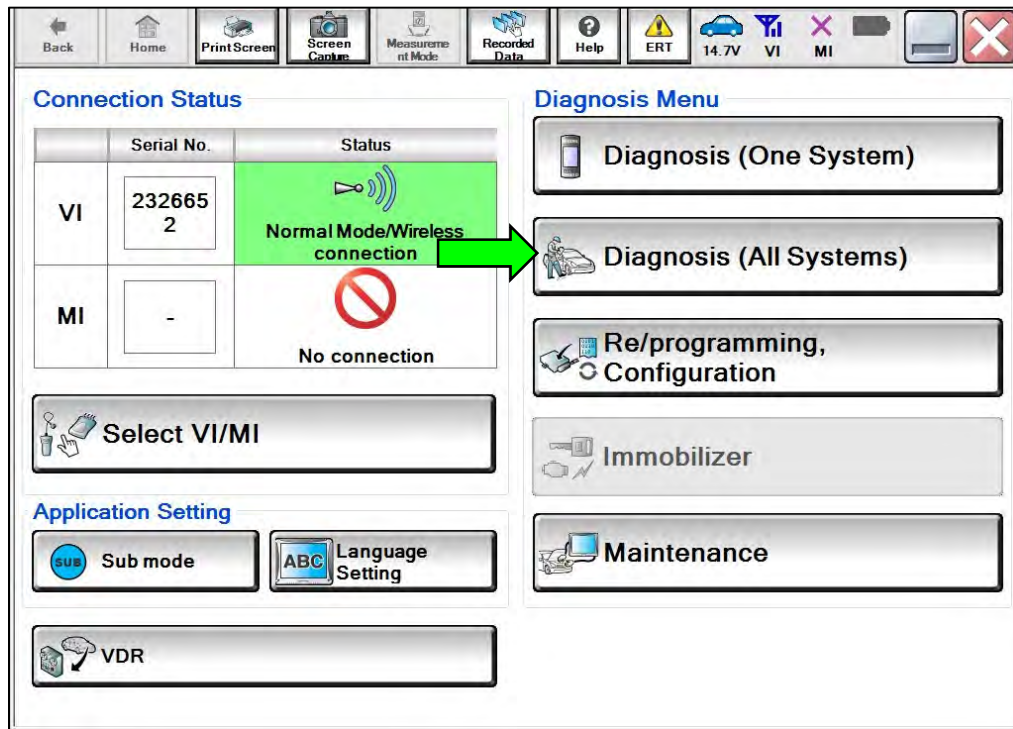29. Select **Diagnosis (All Systems)** and perform System Call.

Figure 21

30. Follow the on-screen instructions to **Erase All DTCs**.

    - Verify all DTCs erase normally.

31. Turn the EV system OFF.

32. Disconnect the VI from the DLC.

VCM Recovery:

Do not disconnect the VI or shut down C-III plus if reprogramming does not complete.

If reprogramming does <u>not</u> complete and the "!?" icon displays, as shown in Figure 22**:**

- Check battery voltage (12.0 V – 15.5 V).

- EV system is ON (Not Ready).

- External Bluetooth® devices are OFF.

- All electrical loads are OFF.

- Select **Retry** and follow the on screen instructions.

- **Retry** <u>may not go through on first attempt and can be selected more than once</u>.
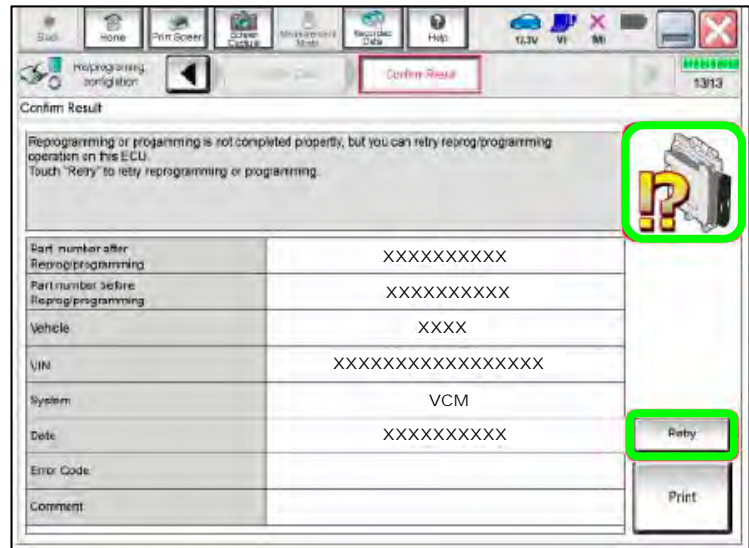

Figure 22

If reprogramming does <u>not</u> complete and the "X" icon displays, as shown in Figure 23**:**

- Check battery voltage (12.0 V – 15.5 V).

- CONSULT A/C adapter is plugged in.

- EV system is ON (Not Ready).

- Transmission is in Park.

- All C-III plus / VI cables are securely connected.

- All C-III plus updates are installed.

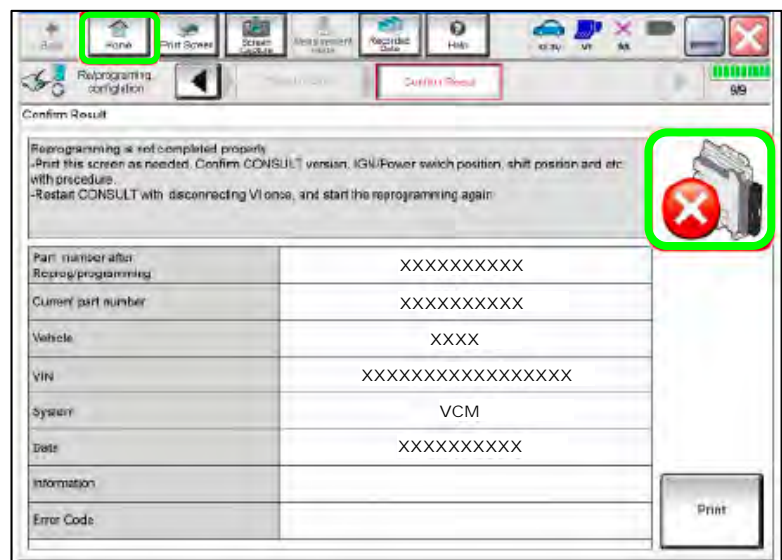- Select **Home**, and restart the reprogram procedure from the beginning.

Figure 23

CLAIMS INFORMATION

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
R23A6	Reprogram Vehicle Control Module (VCM)	R23A60	0.5
	Reprogram Not Needed	R23A61	0.3

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
July 17, 2023	NTB23-057	Original bulletin published
August 1, 2023	NTB23-057A	**NOTICE** about only using VI2 for this repair removed, and references to "VI2" changed to "VI"