



VOLUNTARY RECALL CAMPAIGN

Classification:	Reference:	Date:
EL23-017	NTB23-057	July 17, 2023

VOLUNTARY SAFETY RECALL CAMPAIGN 2018-2023 LEAF; VCM REPROGRAM

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.

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

NOTICE

To avoid damage to the Vehicle Control Module (VCM), only use VI2 for this repair. Do NOT use VI3 when performing this repair.

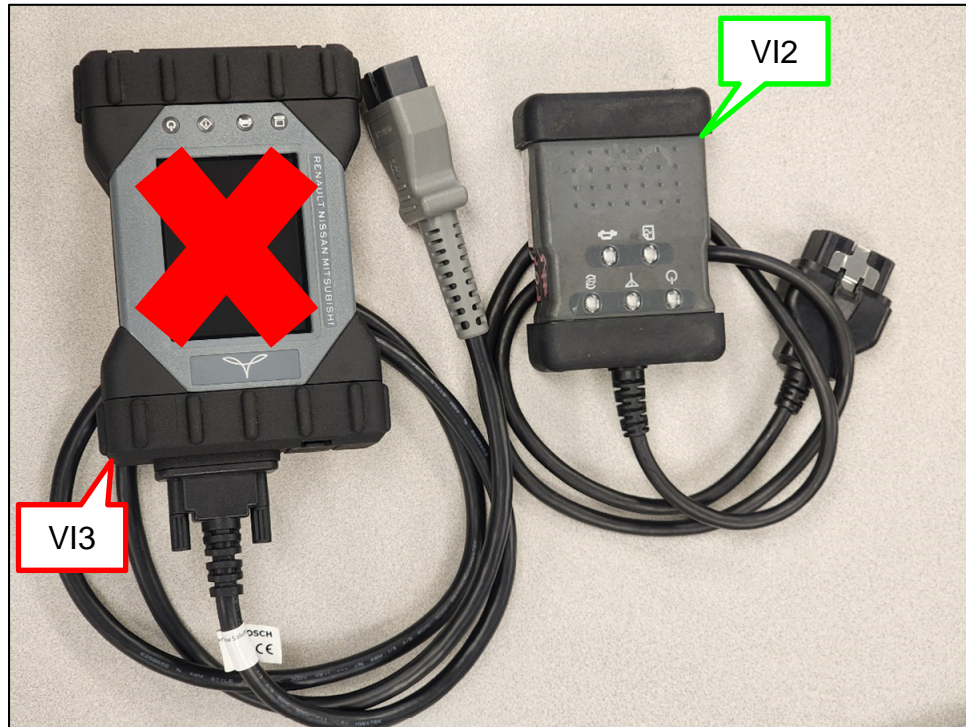


Figure 1

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 VI2 is securely connected. If the VI2 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 VI2. If Bluetooth® signal waves are within range of the CONSULT PC or VI2 during reprogramming, reprogramming may be interrupted and the VCM may be damaged.
1. Connect the VI2 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 2 is present, select **Yes**.

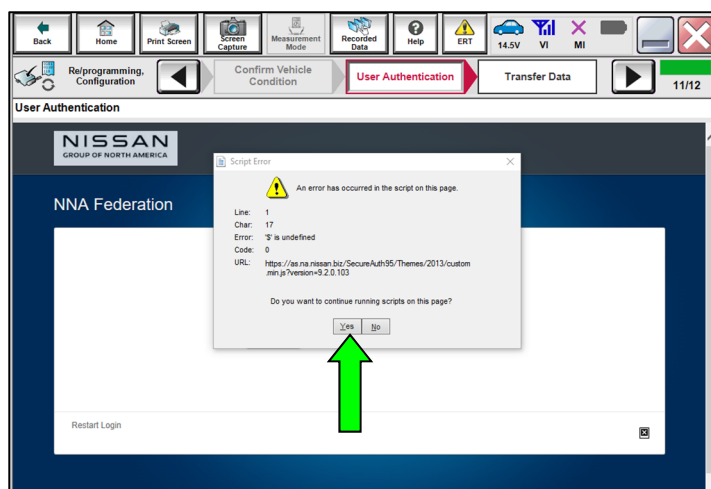


Figure 2

7. Wait for the VI2 to be recognized (Figure 3).
 - The serial number will display when the VI2 is recognized.
8. Select **Re/programming, Configuration**.

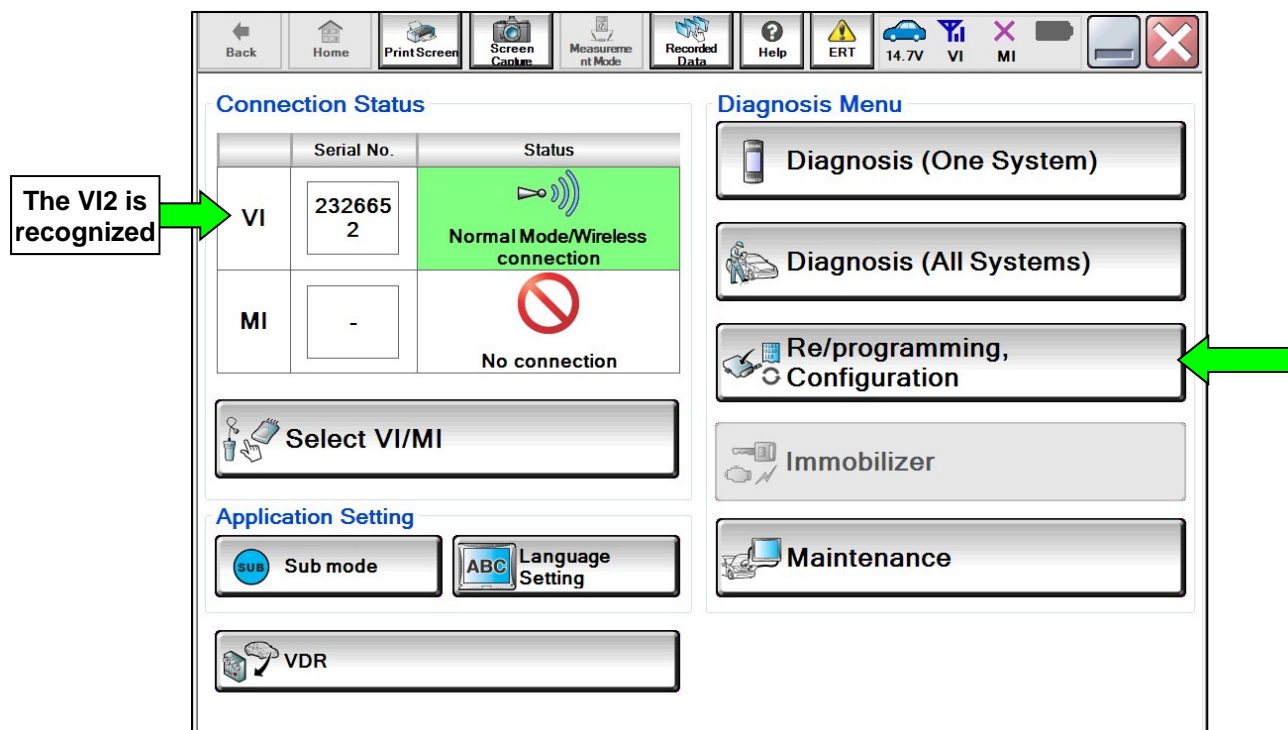


Figure 3

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.

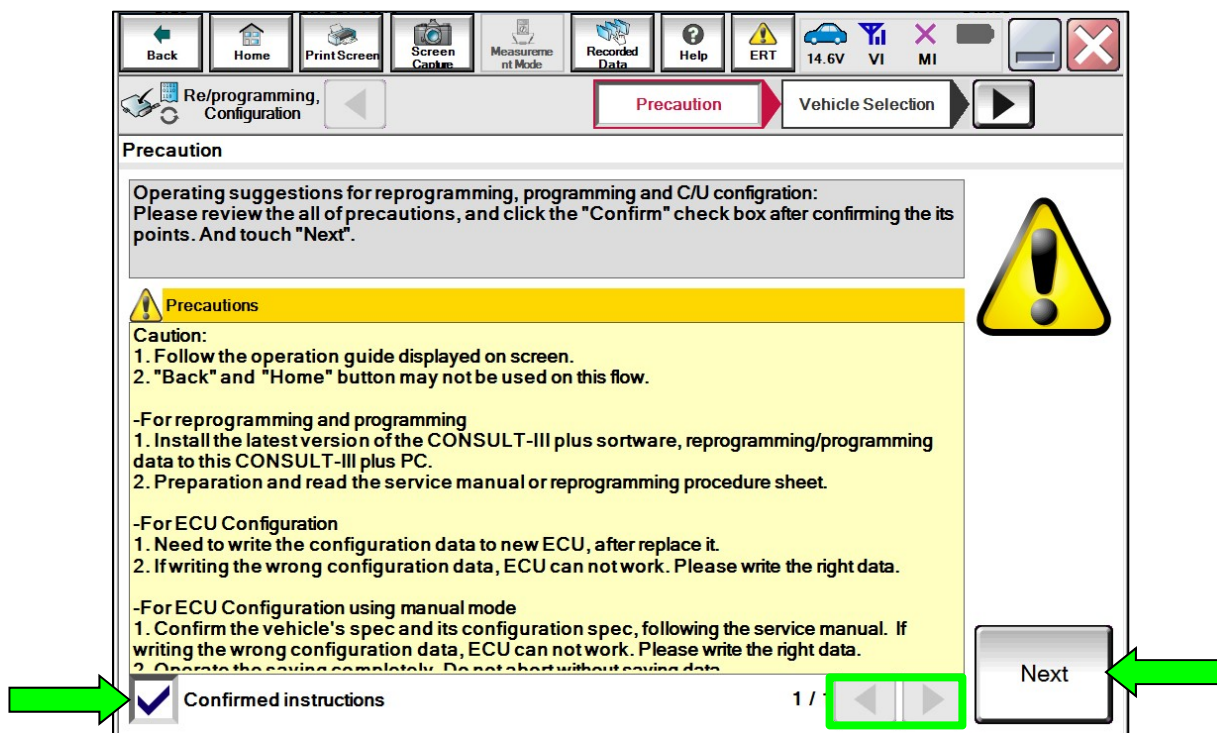


Figure 4

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

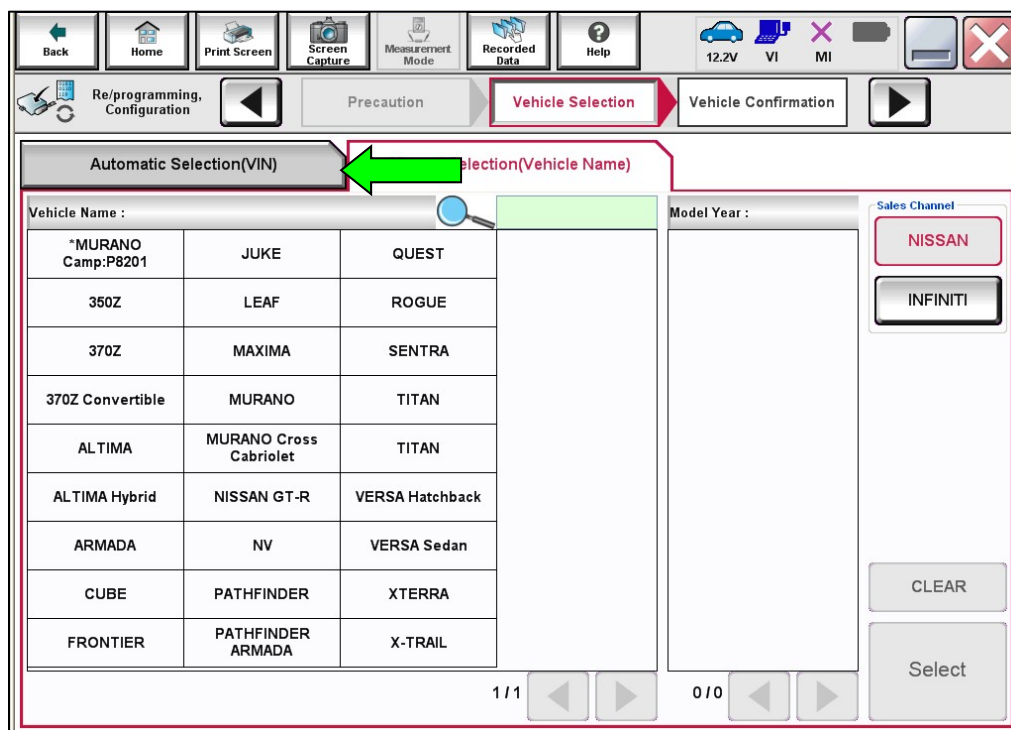


Figure 5

- | | | | | | | | | | | | | | |
|------|------|--------------|----------------|------------------|---------------|------|-----|-------|----|----|--|--|--|
| Back | Home | Print Screen | Screen Capture | Measurement Mode | Recorded Data | Help | ERT | 14.5V | VI | MI | | | |
|------|------|--------------|----------------|------------------|---------------|------|-----|-------|----|----|--|--|--|

Reprogramming Configuration
Vehicle Selection
Vehicle Confirmation

Automatic Selection(VIN)

Manual Selection(Vehicle Name)

Vehicle can be specified by using VIN. So, please touch "Detect Vehicle" and then CONSULT-III plus will start searching vehicle. When VIN can not be readout, please input VIN manually and touch "Detect Vehicle".

NISSAN MOTOR CO.,LTD.JAPAN
型式 TYPE
HJZ51-123456

CHASSIS NO. NO. DE CHASSIS
MODEL HJZ51-123456

色 COLOR 別 OTHER

エンジン ENGINE 1-1 COLOR GUARDIAN NG

トランスミッション TRANSM. 1-1 NG

車種 MODEL 1-1 NG

製造国 MANUFACTURE YEAR MONTH DAY

適用型式 APPLICATION MODEL YEAR MONTH DAY

日産自動車株式会社 NISSAN MOTOR CO.,LTD.

NISSAN MOTOR IBERICA, S.A.
型式 TYPE
VSKJVWR51U0123456

CHASSIS NO. NO. DE CHASSIS
MODEL VSKJVWR51U0123456

色 COLOR 別 OTHER

エンジン ENGINE 1-1 NG

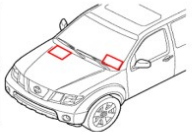
トランスミッション TRANSM. 1-1 NG

車種 MODEL 1-1 NG

製造国 MANUFACTURE YEAR MONTH DAY

適用型式 APPLICATION MODEL YEAR MONTH DAY

东风汽车有限公司制造 DONGFENG MOTOR CO.,LTD.



VIN

Detect Vehicle

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 7

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

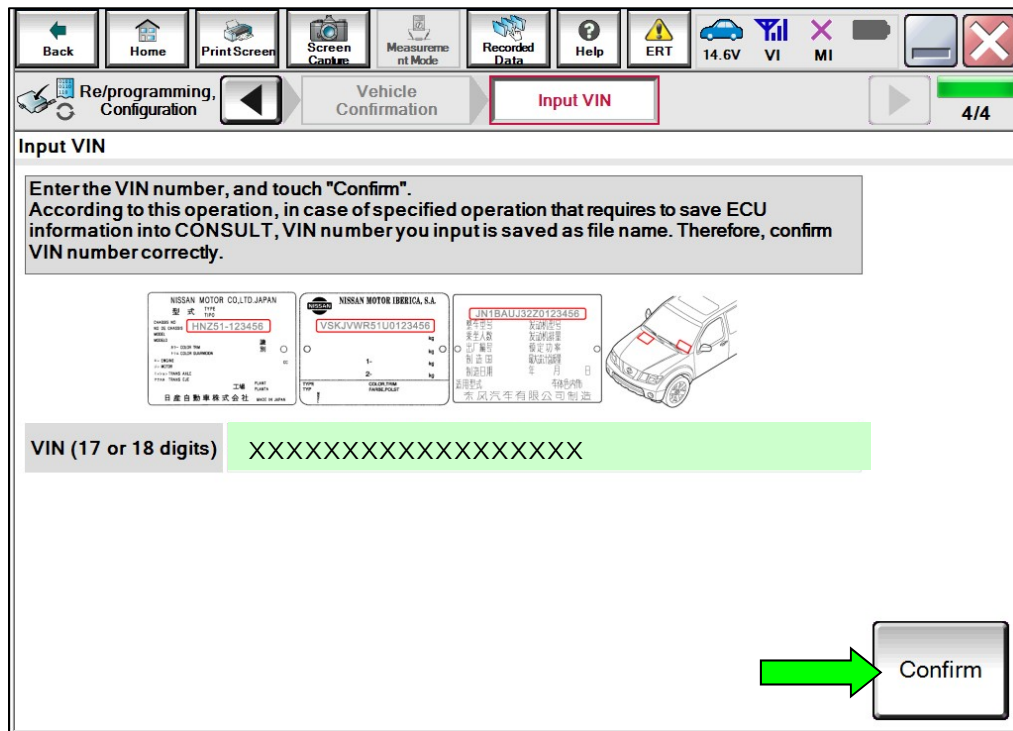


Figure 8

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

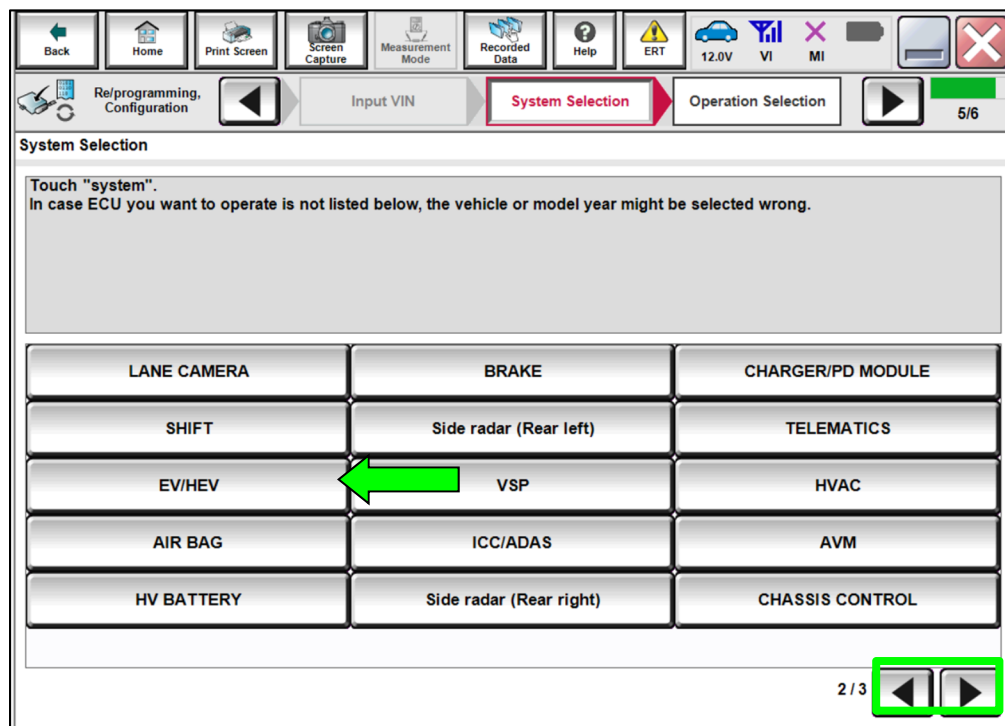


Figure 9

15. Select **Reprogramming**.

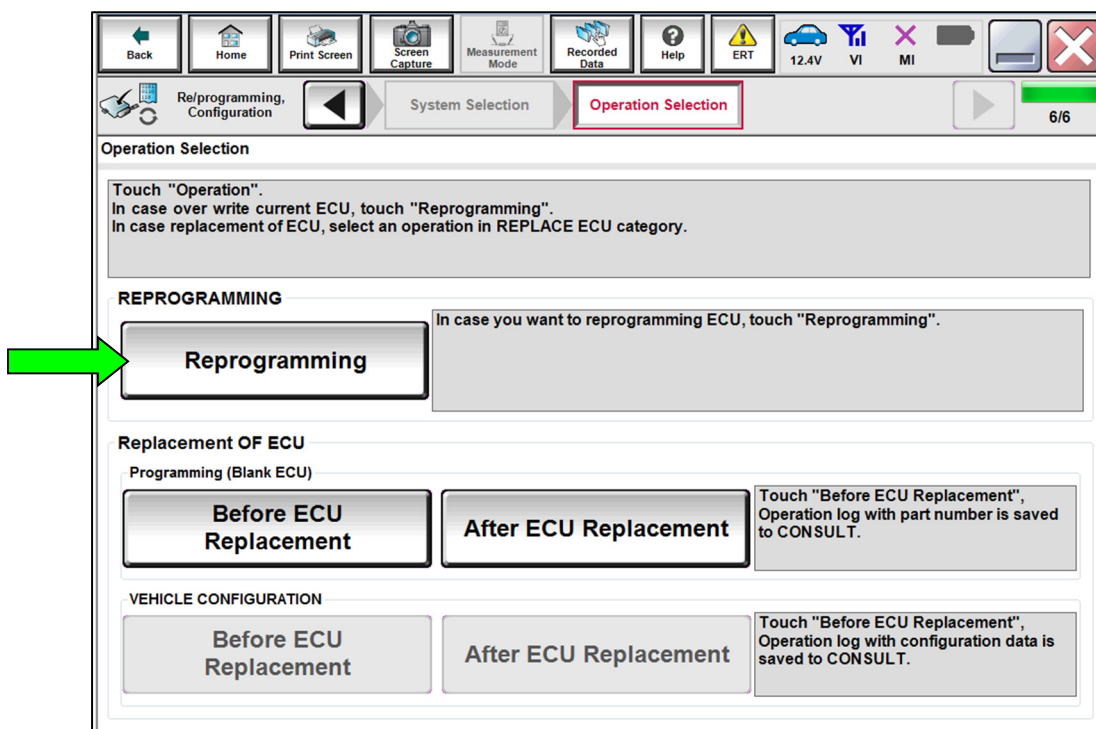


Figure 10

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).

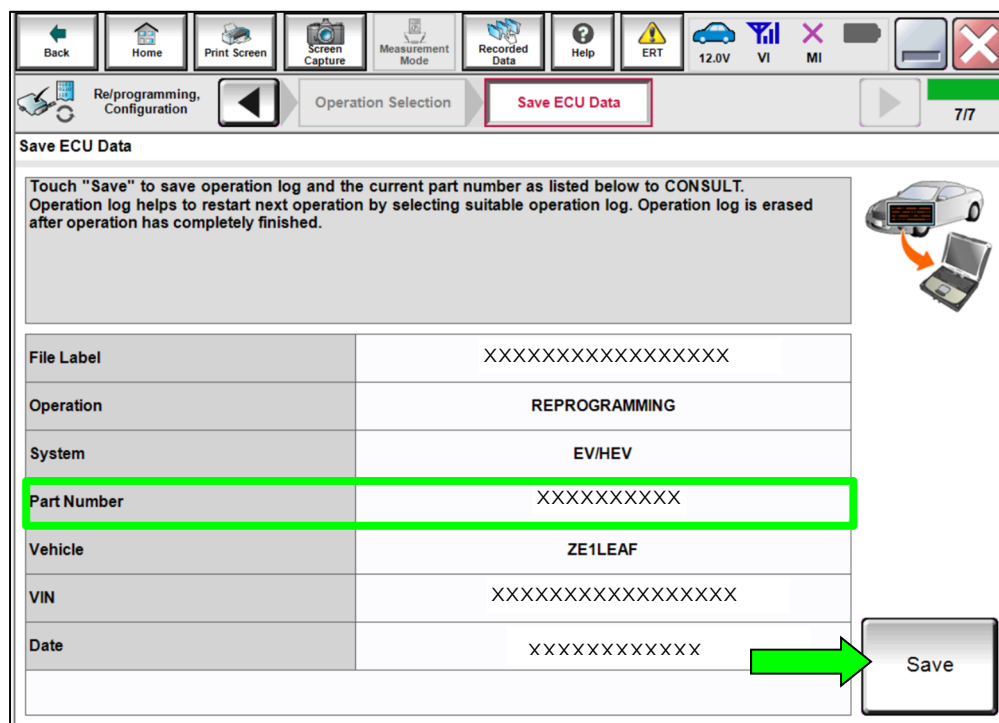


Figure 11

17. Compare the Part Number you wrote down in step 16 on page 8 to the numbers in the **Current VCM Part Number** column in **Table A** below.
- If there is a match, proceed to step 18 on page 10 to continue the reprogramming procedure.
 - If there is not a match, 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

18. Review the precaution instructions.

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

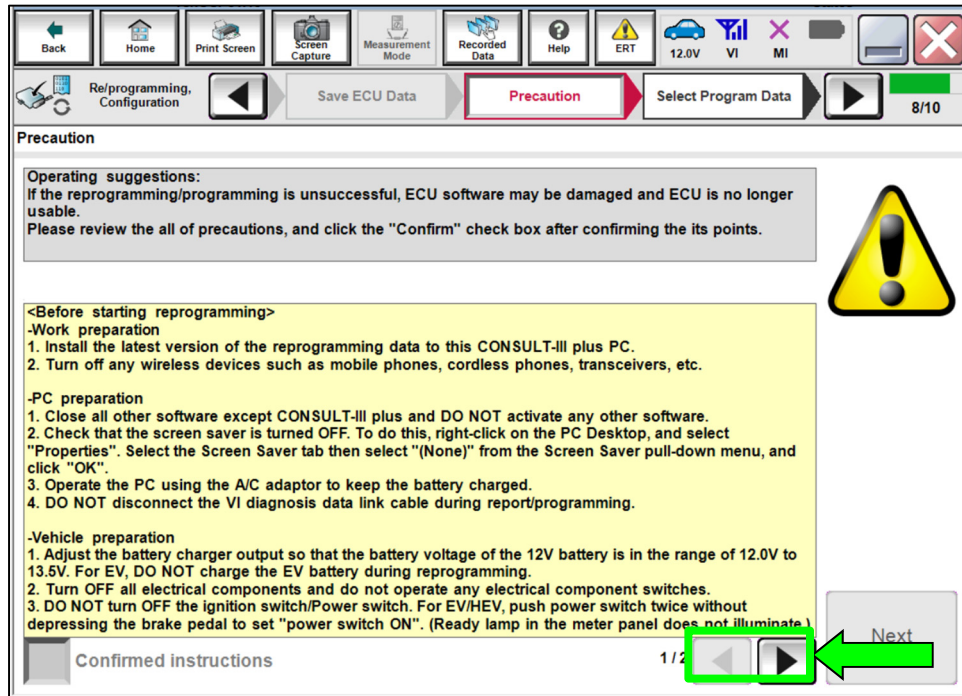


Figure 12

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

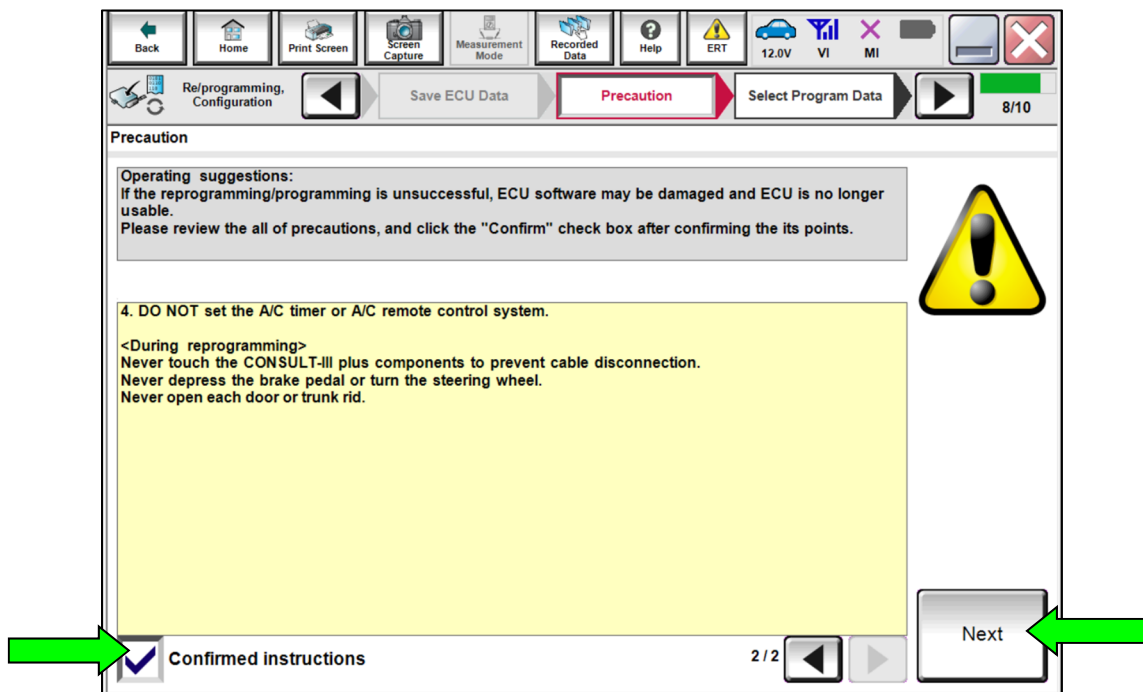


Figure 13

20. Select **Next**.

Confirm the detail listed below, and touch "Next" if OK.
 -In case the screen to select reprog/programming data is NOT displayed, only one data is available for this vehicle.
 -In case the part number after reprogramming is wrong, touch "Re-select", and confirm the vehicle selection, VIN and reprog/programming data in CONSULT.

Part Number After Repro/programming	XXXXXXXXXX
Current Part Number	XXXXXXXXXX
Vehicle	LEAF ZE1
VIN	XXXXXXXXXXXXXXXXXX
System	EV/HEV
Other Information	ZE1 VCM
Expected time to finish re/programming	15min

Re-select

Next

Figure 14

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.

Operate according to the following procedures.

- 1 Remove the terminal caps of battery, and connect battery charger to battery.
- 2 Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and 13.5V. The vehicle battery voltage is shown on the top-right of this screen..
- 3 Confirm the RESULT is OK, touch "Next".

Result OK

Next

Figure 15

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 16 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.

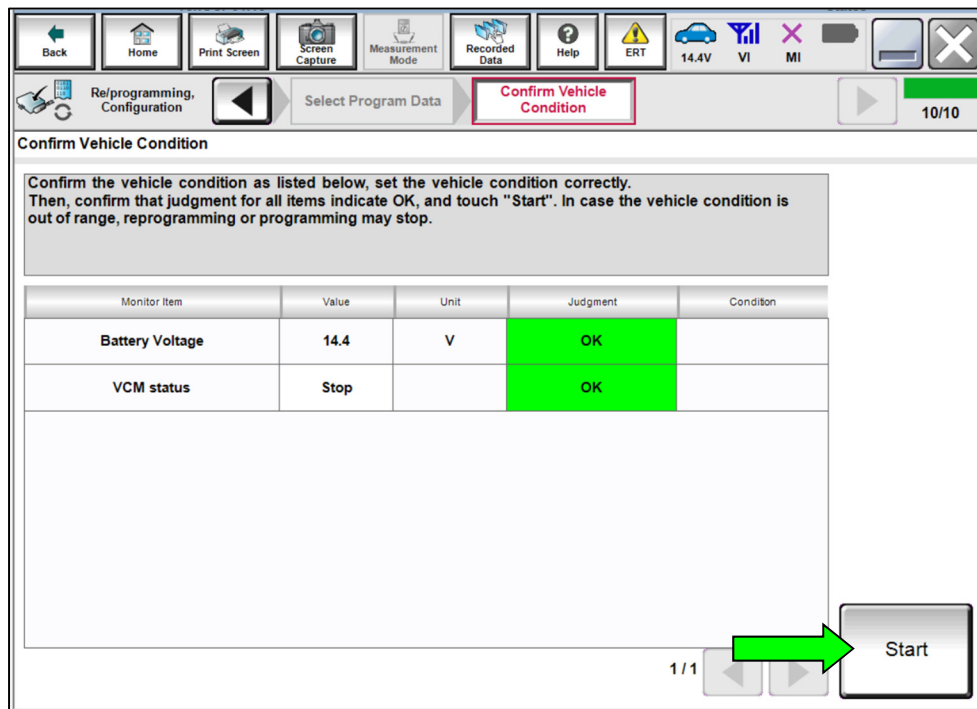


Figure 16

23. Once the screen in Figure 17 displays, the reprogramming is complete. Select **Next**.
- If the screen in Figure 17 does NOT display, (indicating that reprogramming did not complete), refer to **VCM Recovery** on page 16.

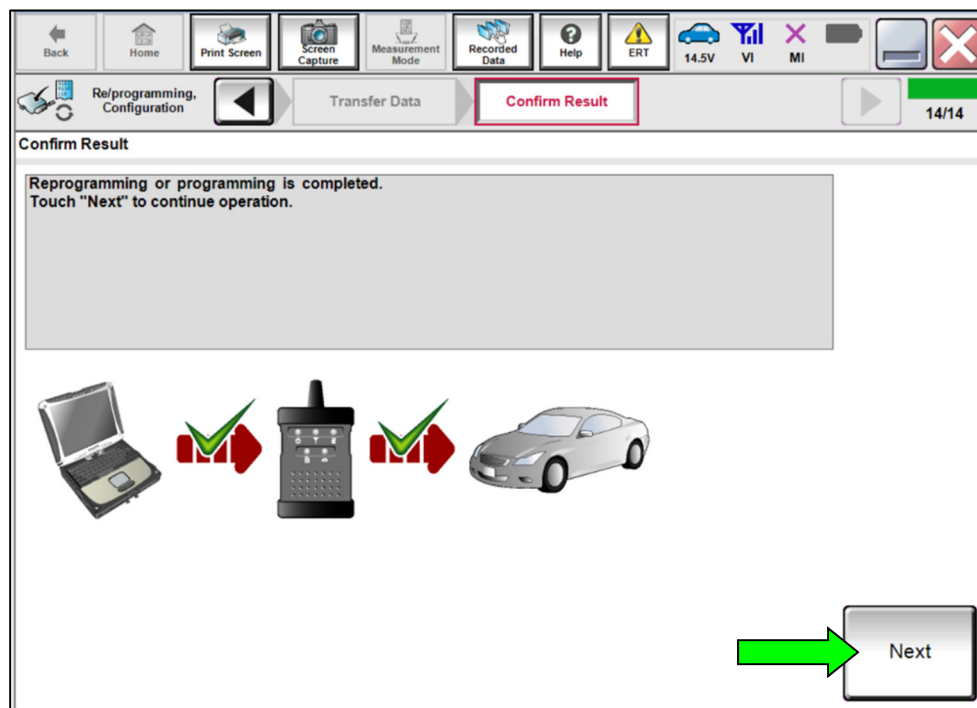


Figure 17

24. Press the power switch one (1) time to turn the EV system OFF (Figure 18), then go to step 25 immediately.

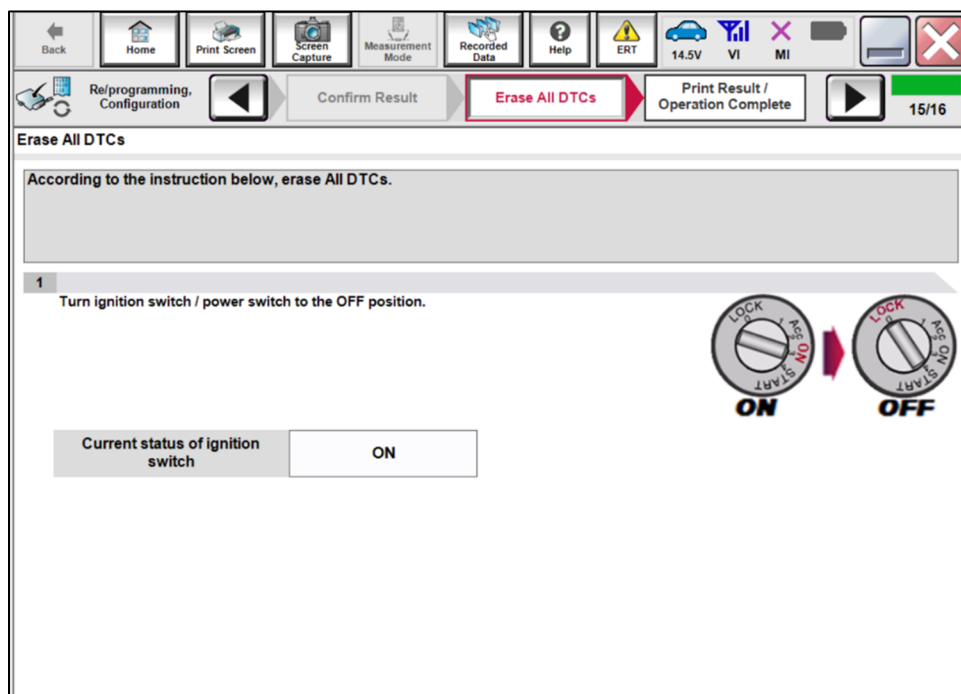


Figure 18

25. Press the power switch two (2) times to turn the EV system back on (Figure 19).
- C3 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.

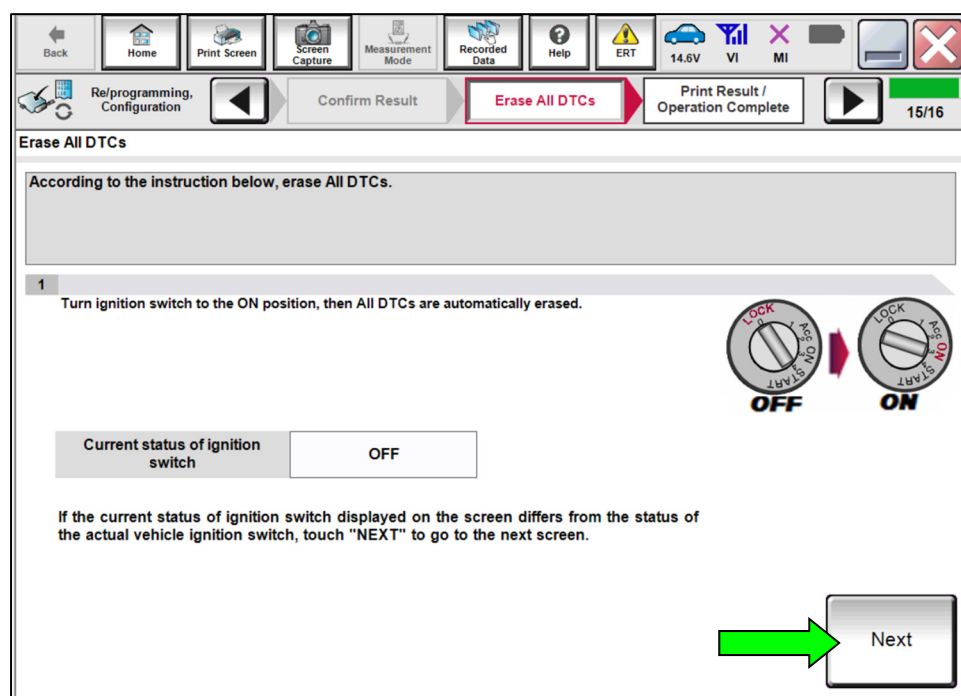


Figure 19

26. Select **Confirm**.

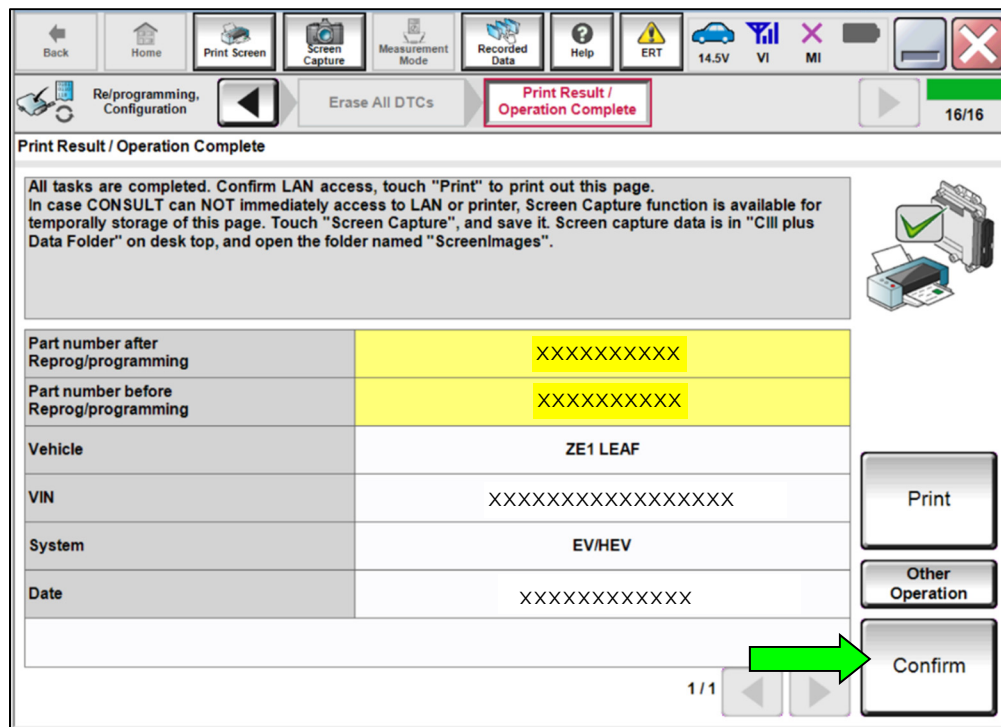


Figure 20

27. Select **Home**.

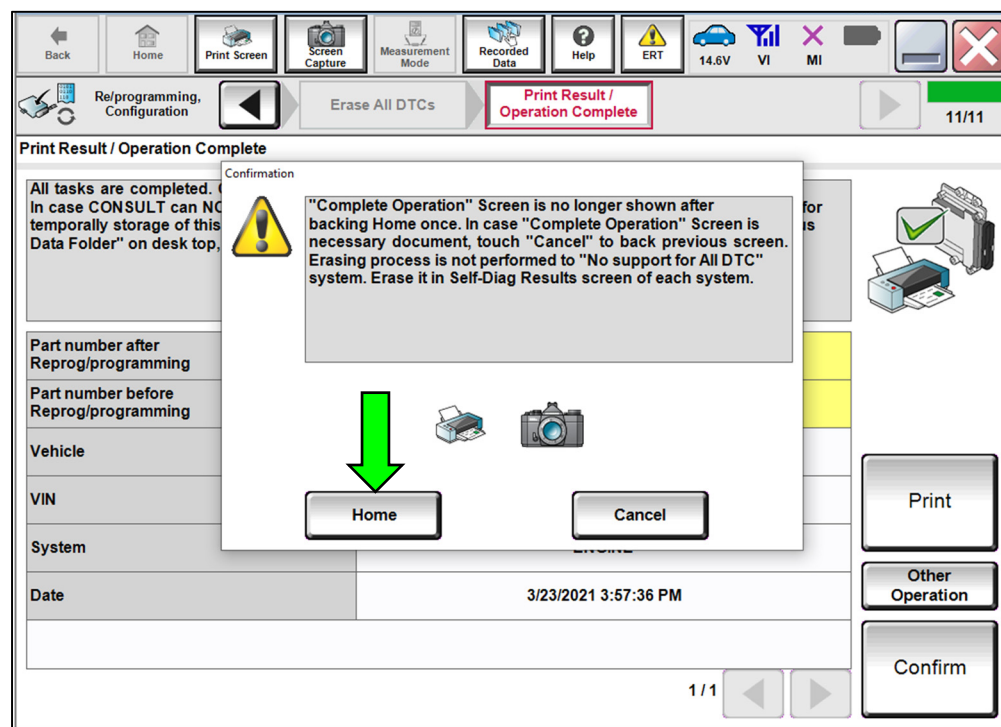


Figure 21

28. Disconnect the battery maintainer/smart charger from the vehicle.
29. Select **Diagnosis (All Systems)** and perform System Call.

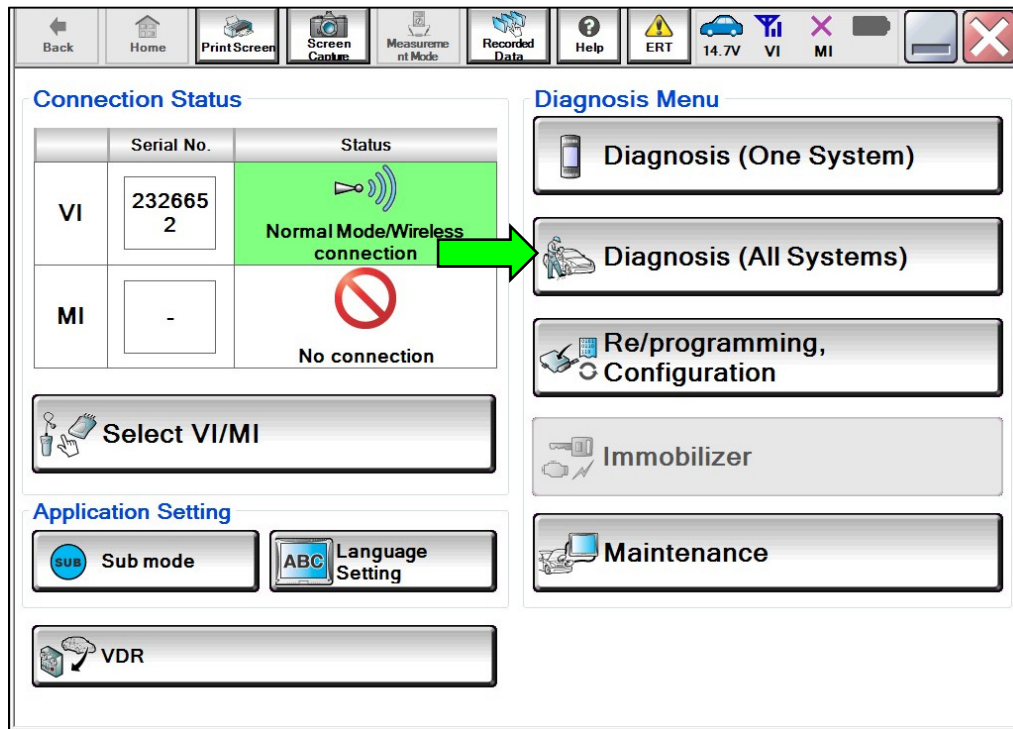


Figure 22

30. Follow the on-screen instructions to **Erase All DTCs**.
 - Verify all DTCs erase normally.
31. Turn the EV system OFF.
32. Disconnect the VI2 from the DLC.

VCM Recovery:

Do not disconnect the VI2 or shut down C-III plus if reprogramming does not complete.

If reprogramming does not complete and the “!?” icon displays, as shown in Figure 23:

- 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 may not go through on first attempt and can be selected more than once.

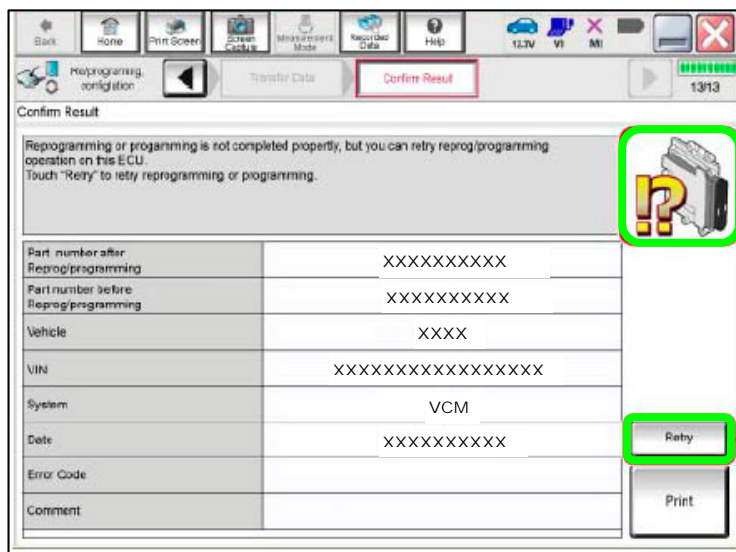


Figure 23

If reprogramming does not complete and the “X” icon displays, as shown in Figure 24:

- 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 / VI2 cables are securely connected.
- All C-III plus updates are installed.
- Select **Home**, and restart the reprogram procedure from the beginning.

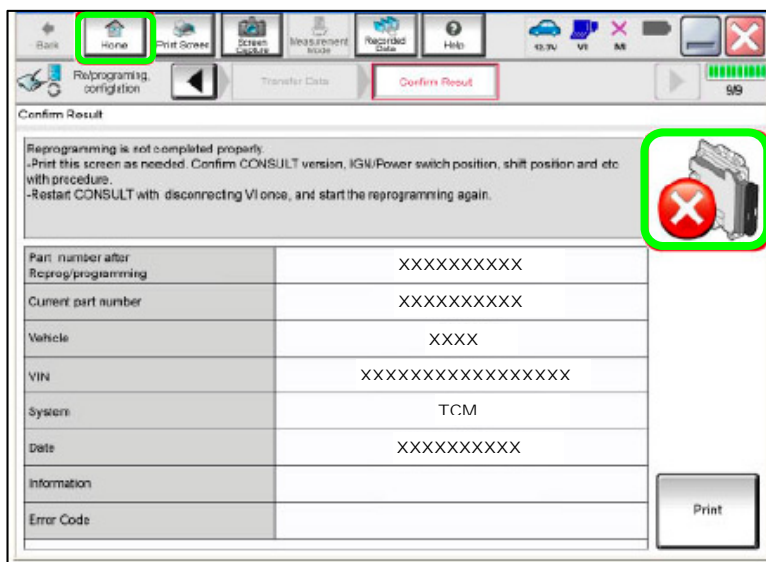


Figure 24

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

