



# TECHNICAL SERVICE BULLETIN

Classification: EL23-021	Reference: NTB24-012	Date: February 9, 2024
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## DTC P18B1 STORED IN THE SHIFT CONTROL UNIT

**APPLIED VEHICLES:** 2018-2022 LEAF (ZE1)

### IF YOU CONFIRM

DTC P18B1 for “CONTROL MODULE” is stored in the Shift Control Unit.

### ACTION

Follow the **SERVICE PROCEDURE** in this bulletin to:

1. Confirm the current Shift Control Unit part number.
2. Reprogram the Shift Control Unit, if applicable.

**IMPORTANT:** The purpose of **ACTION** (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire **SERVICE PROCEDURE** as it contains information that is essential to successfully completing this repair.

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

**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 Shift Control Unit 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 Shift Control Unit 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 Shift Control Unit 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 Shift Control Unit may be damaged.
1. Connect the VI to the vehicle's DLC.
  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. Login using your NNAnet credentials.

**IMPORTANT:** If not prompted to enter your username and password, the CONSULT PC may not be connected to Wi-Fi. Close C-III plus, confirm the CONSULT PC is connected to Wi-Fi, and then reopen C-III plus.

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

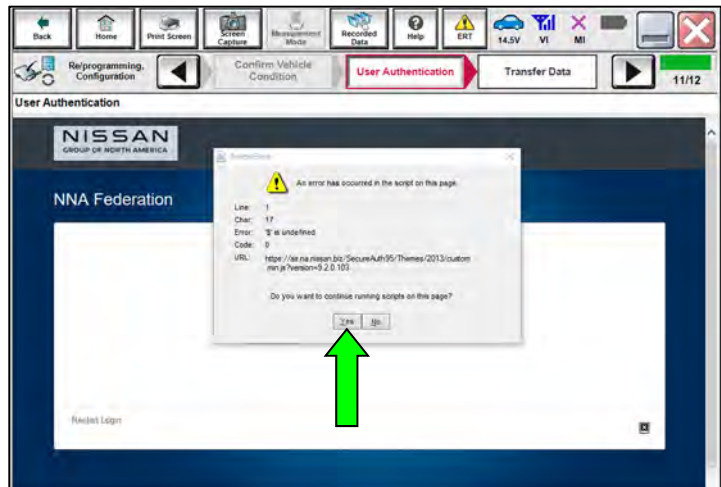


Figure 1

8. Wait for the VI to be recognized (Figure 2).
  - The serial number will display when the VI is recognized.
9. Select **Re/programming, Configuration**.

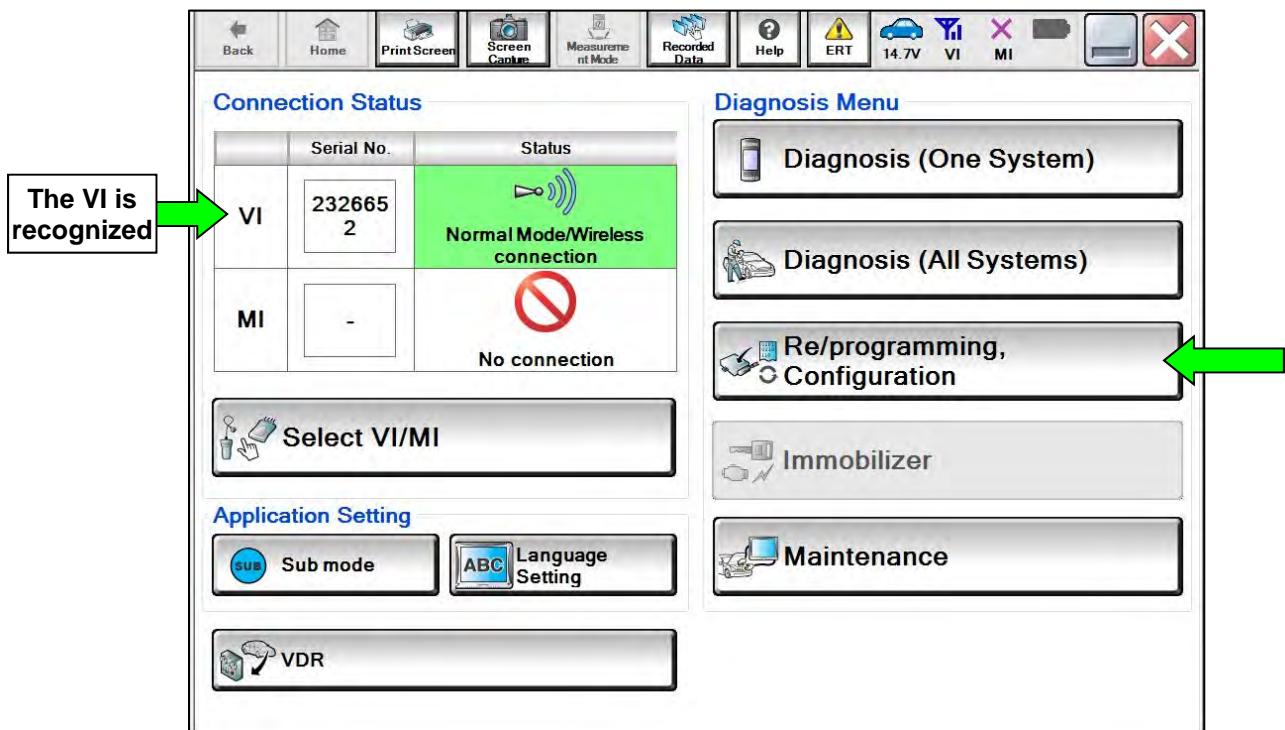


Figure 2

- 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.

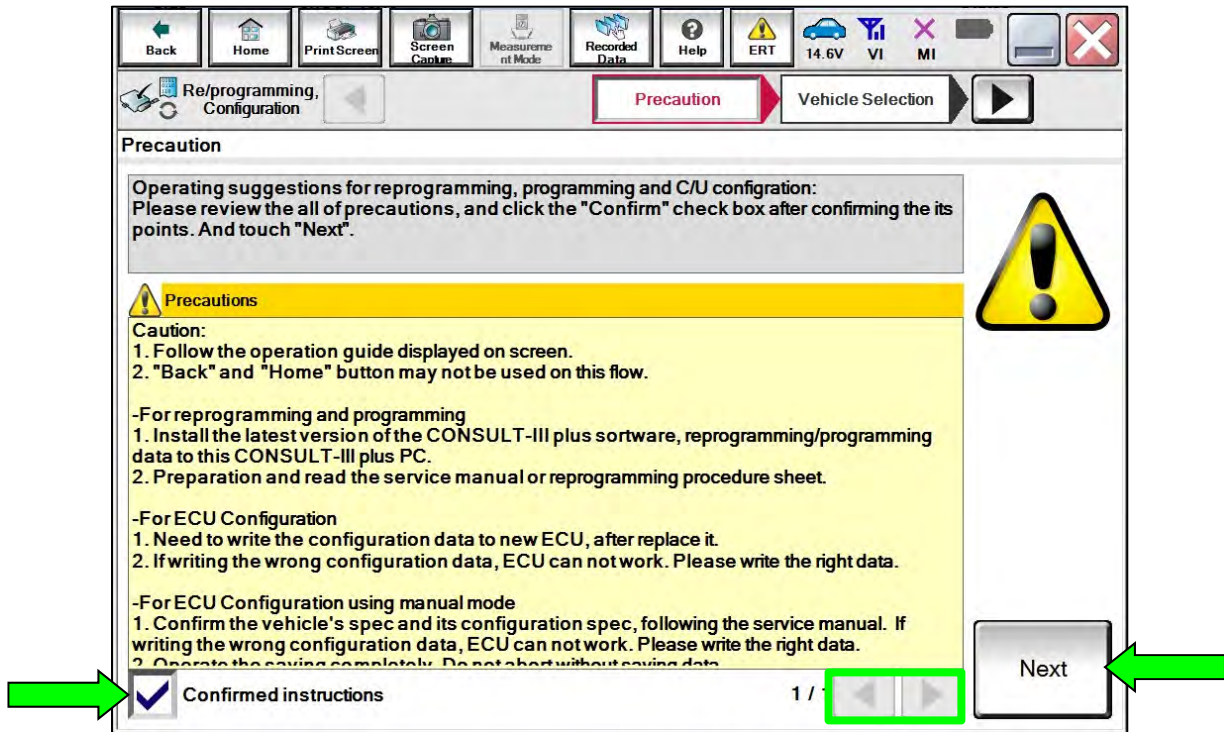


Figure 3

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

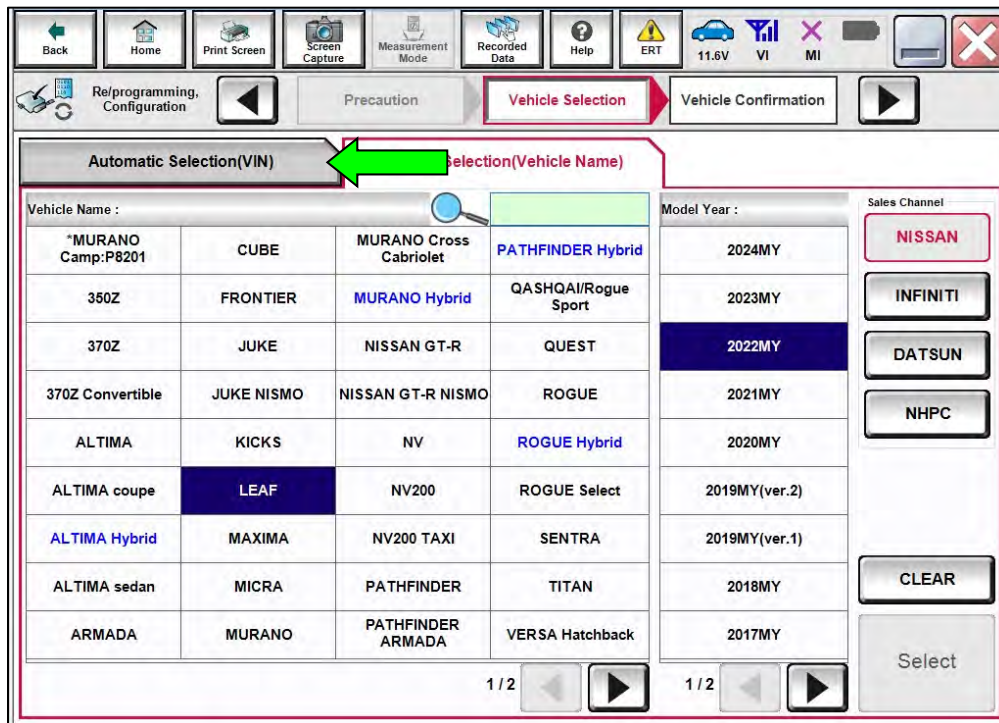


Figure 4



12. Allow the VIN to be detected.

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

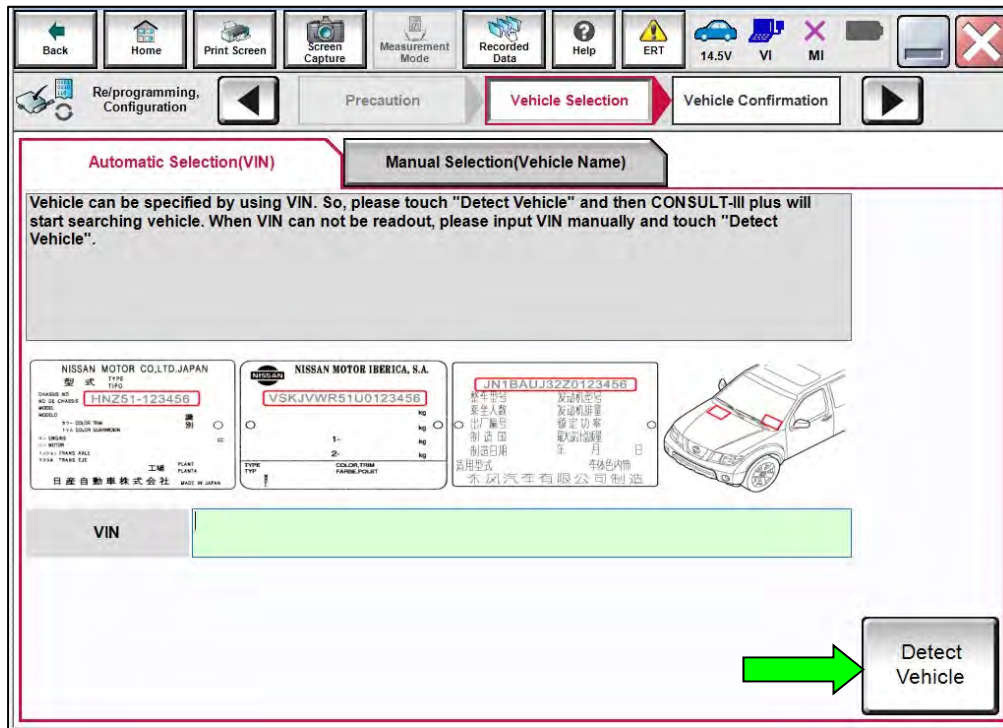


Figure 5

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

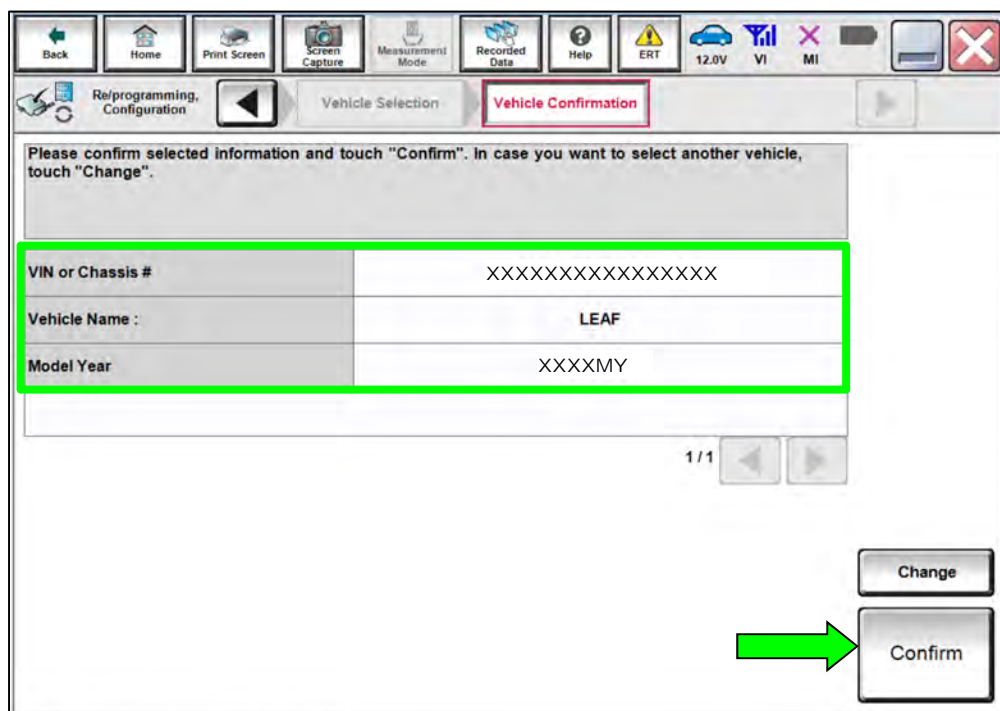


Figure 6

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

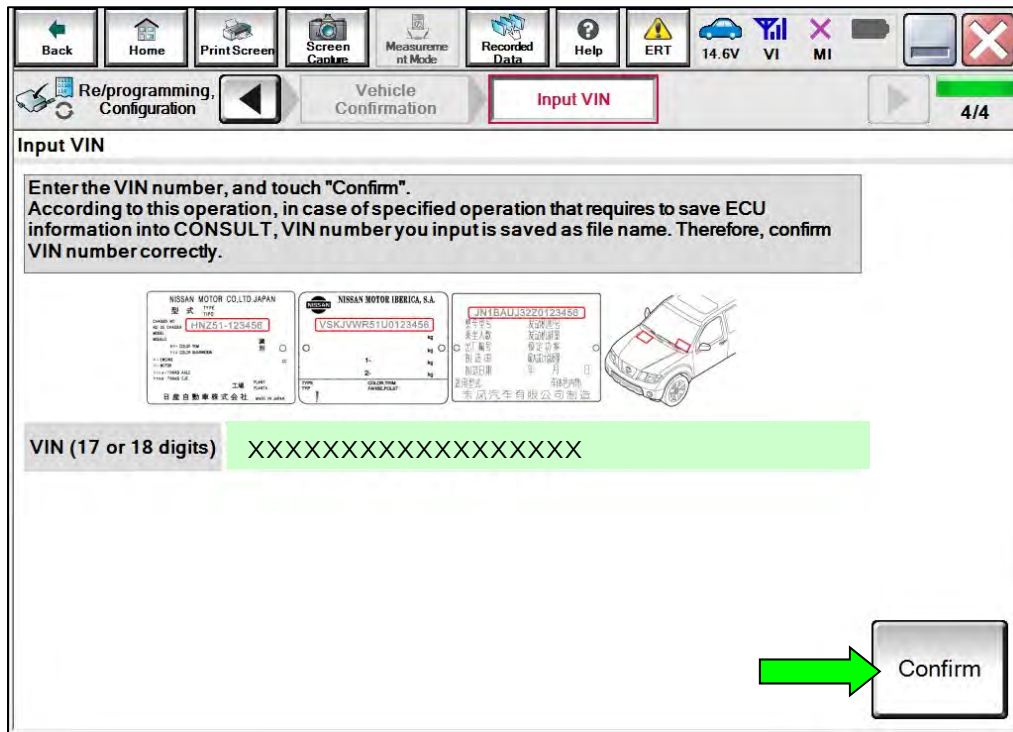


Figure 7

- If the screen in Figure 8 displays, select **Other Operation**.

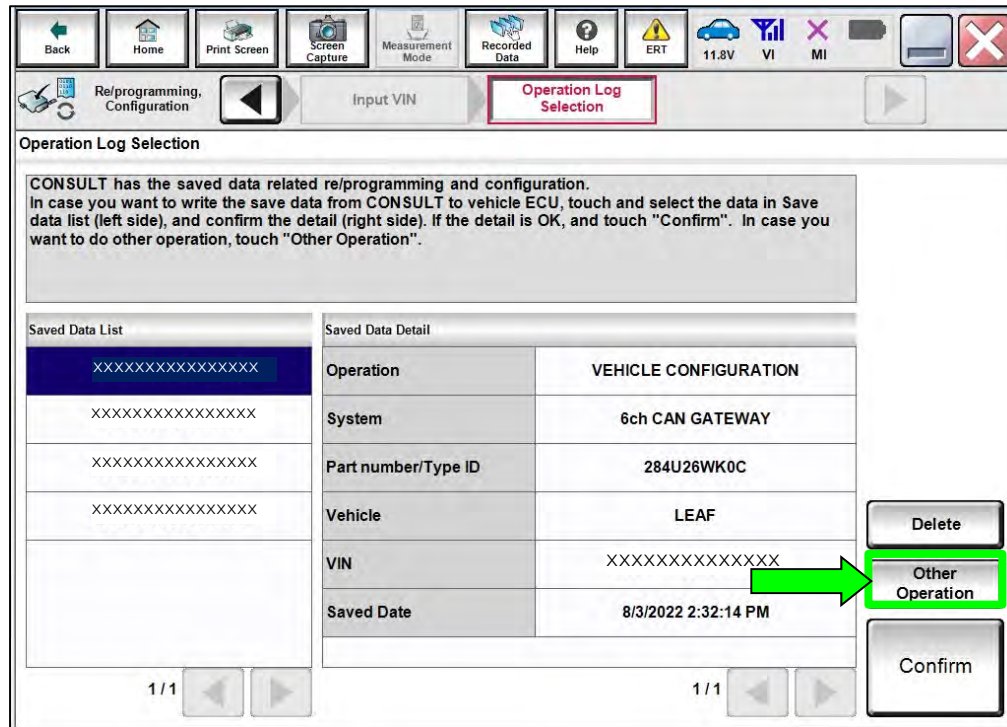


Figure 8

16. Select **SHIFT**.

- Use arrows to scroll to page 2 to select **SHIFT**.

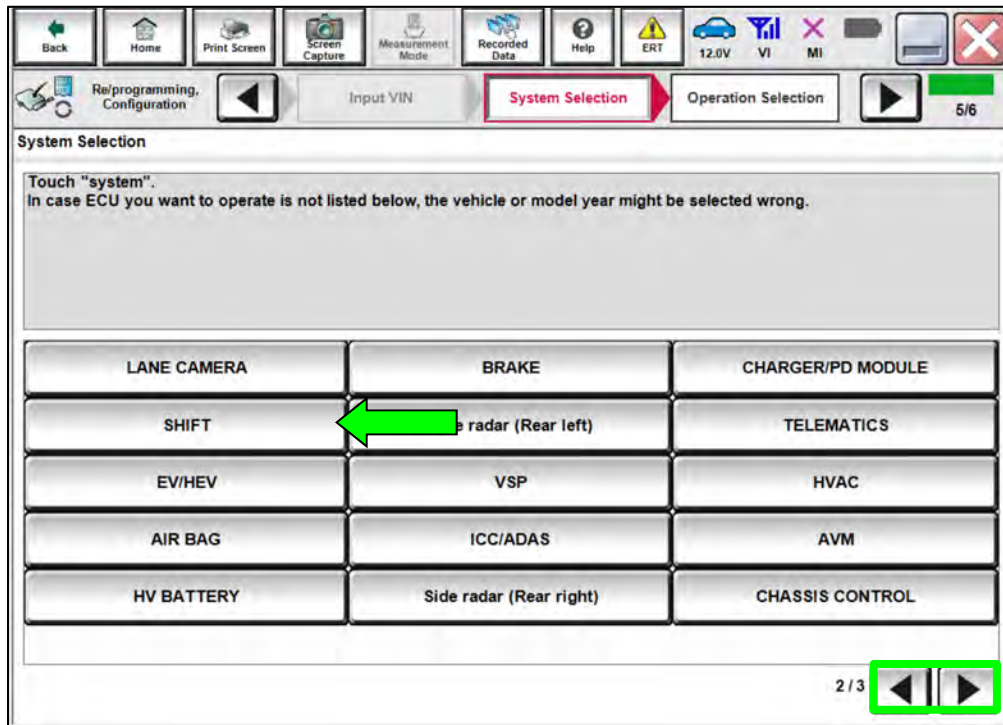


Figure 9

17. Select **Reprogramming**.

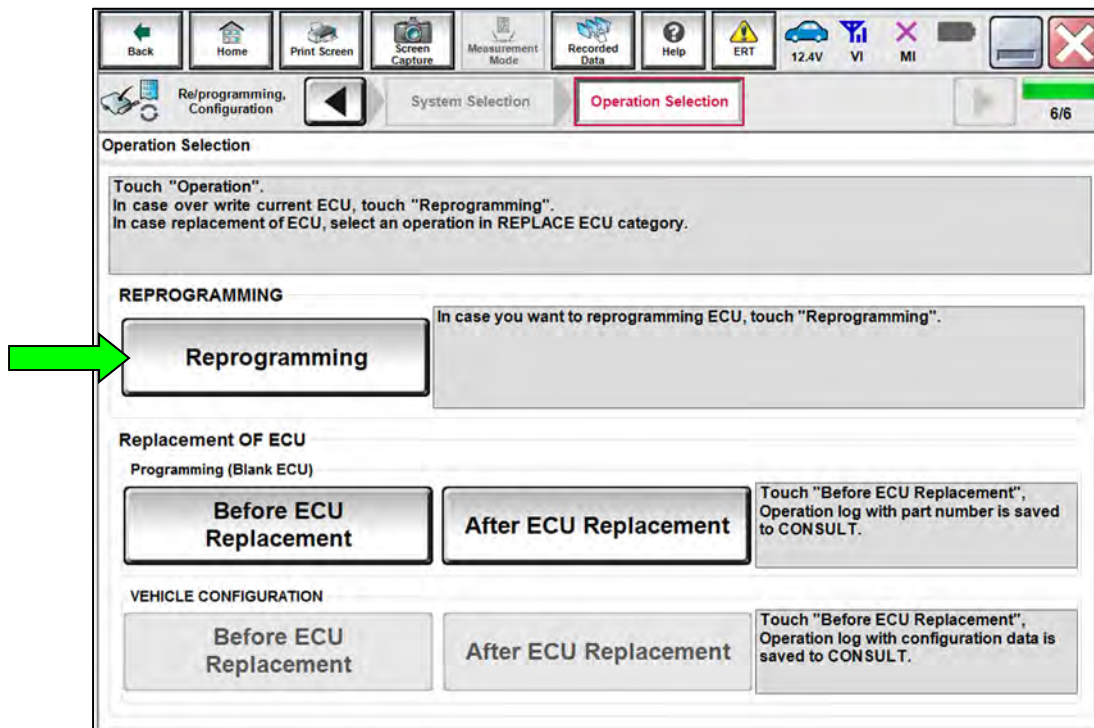


Figure 10

18. Find the Shift Control Unit **Part Number** and write it on the repair order, and then select **Save**.
- This is the current Part Number (P/N).

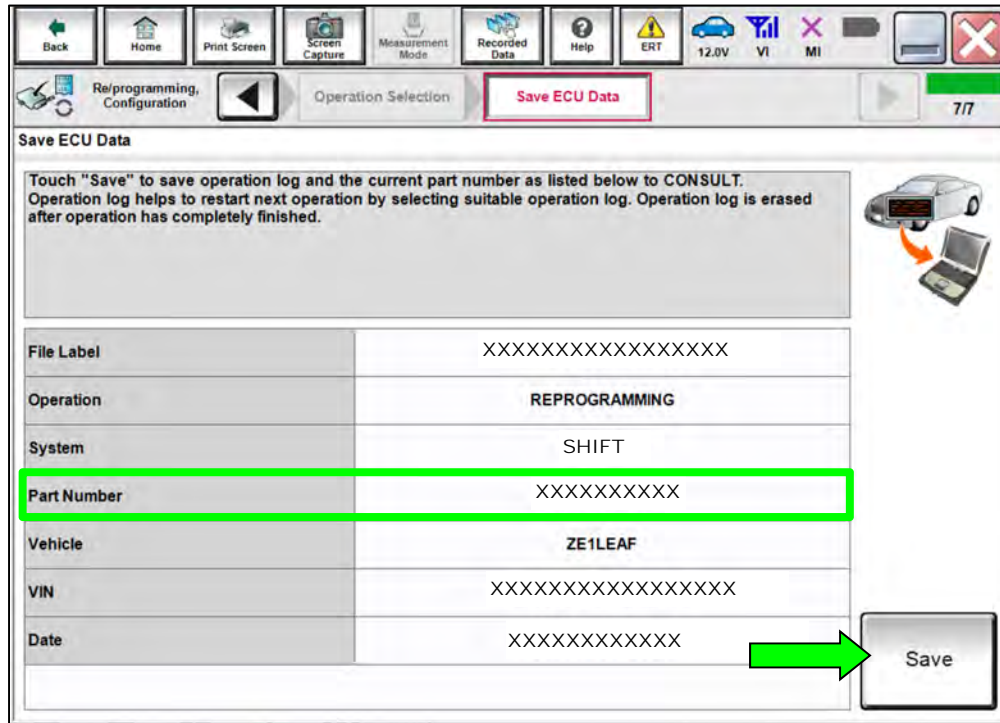


Figure 11

19. Compare the Part Number you wrote down in step 18 to the numbers in the **Current Shift Control Unit Part Number** column in **Table A** below.
- If there is a match, proceed to step 20 on page 9 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 Shift Control Unit Part Number: 31038-*****
2018-2022	5SA0B, 5SA2B



20. Review the precaution instructions.

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

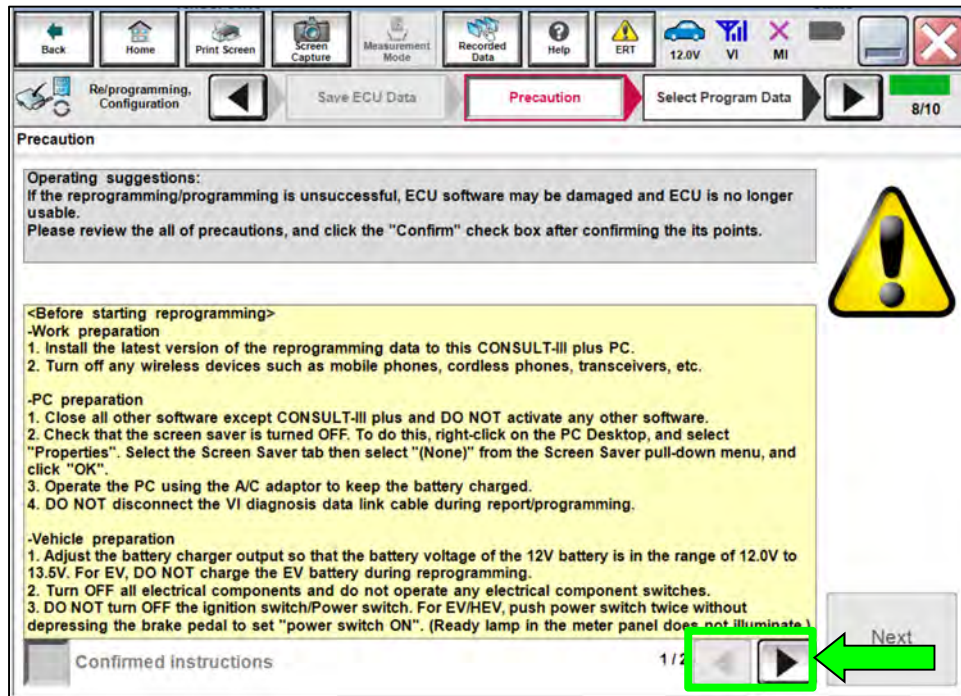


Figure 12

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

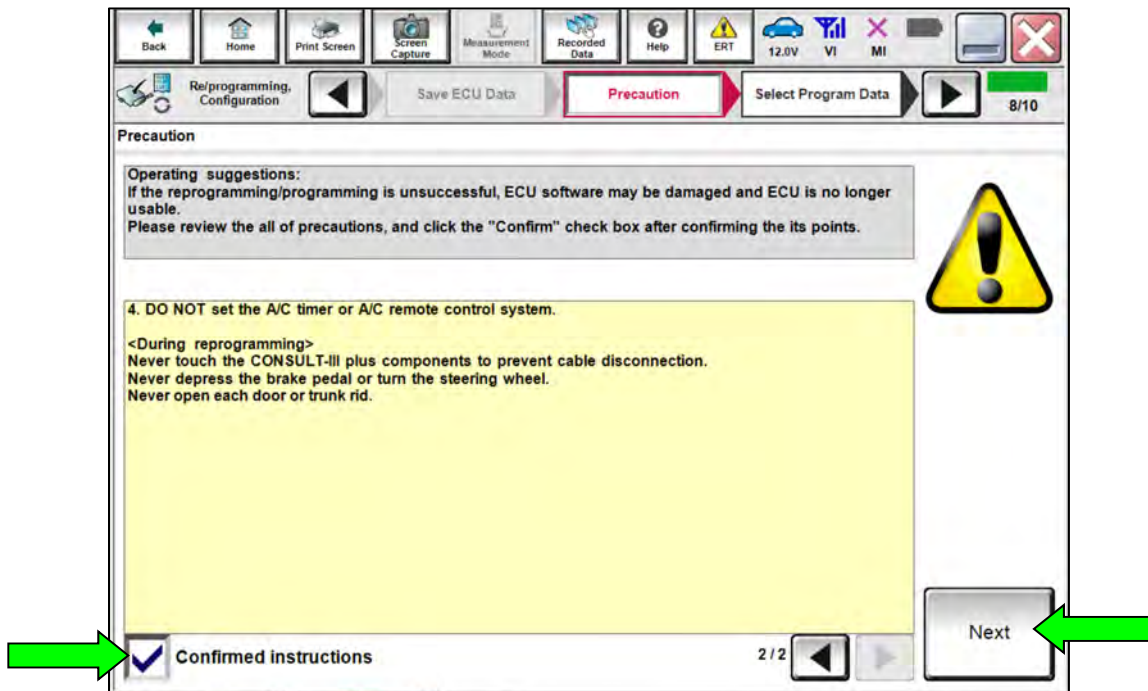


Figure 13

22. Select **Next**.

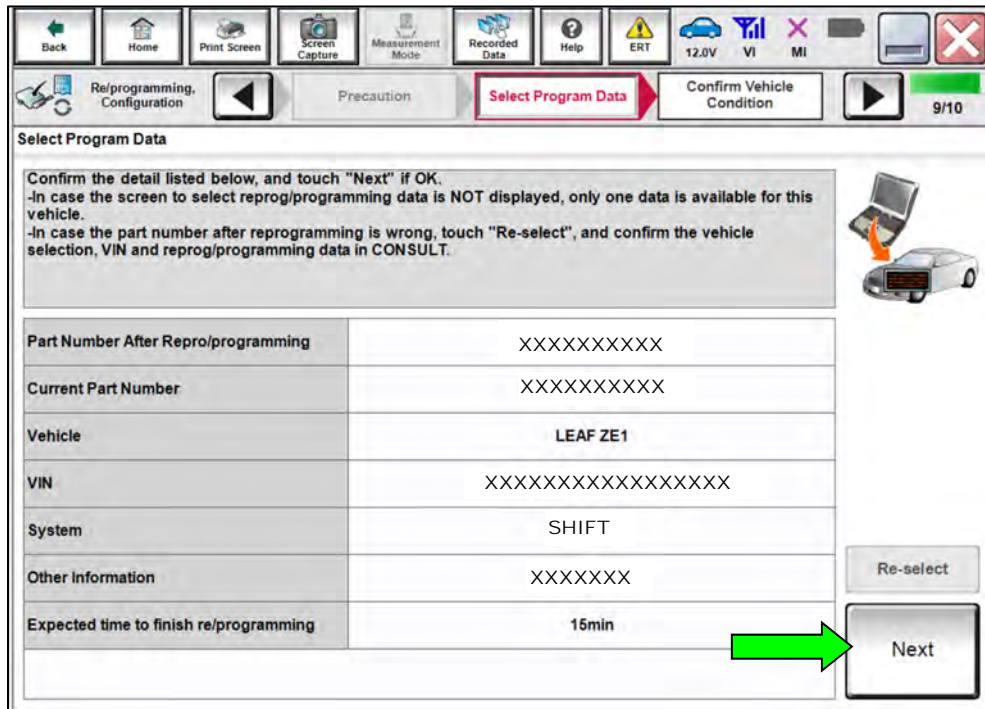


Figure 14

23. 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.

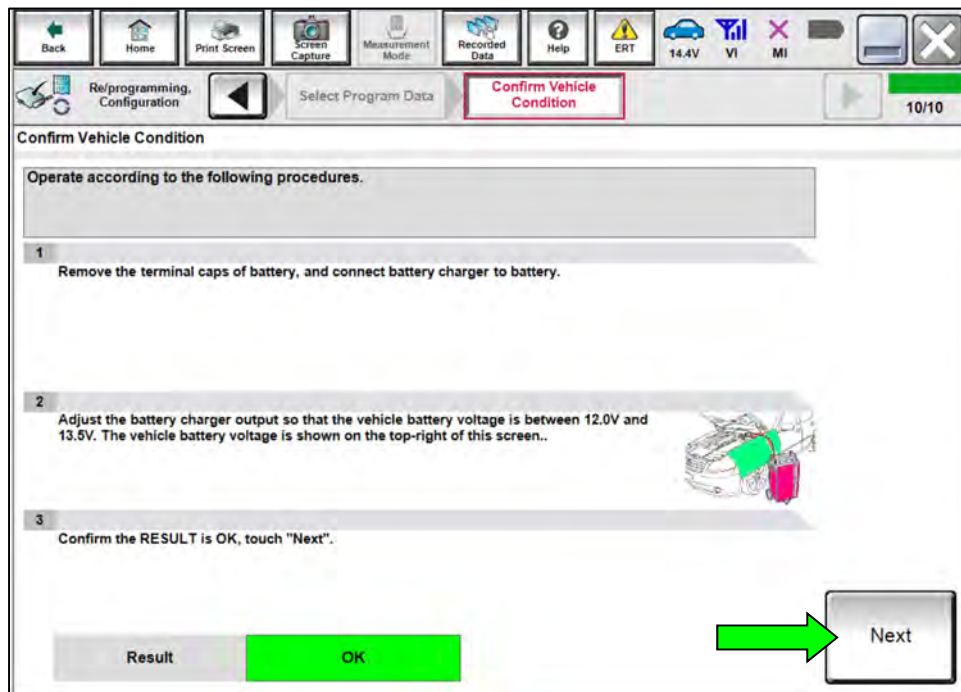


Figure 15

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

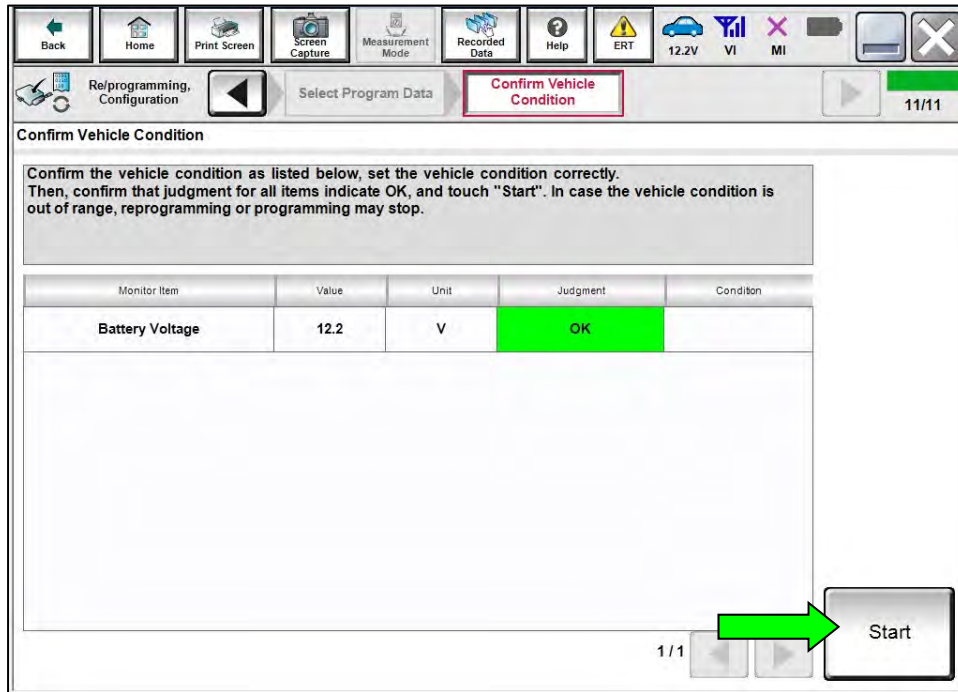


Figure 16

25. 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 **Shift Control Unit Recovery** on page 16.

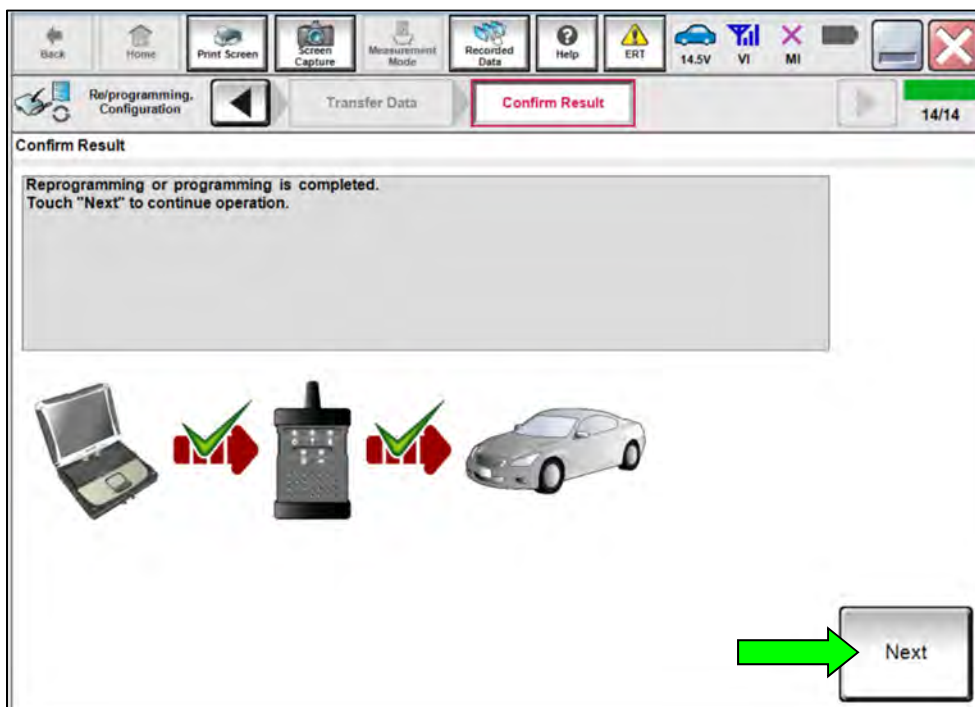


Figure 17

26. Press the power switch one (1) time to turn the EV system OFF (Figure 18), and then immediately go to step 27.

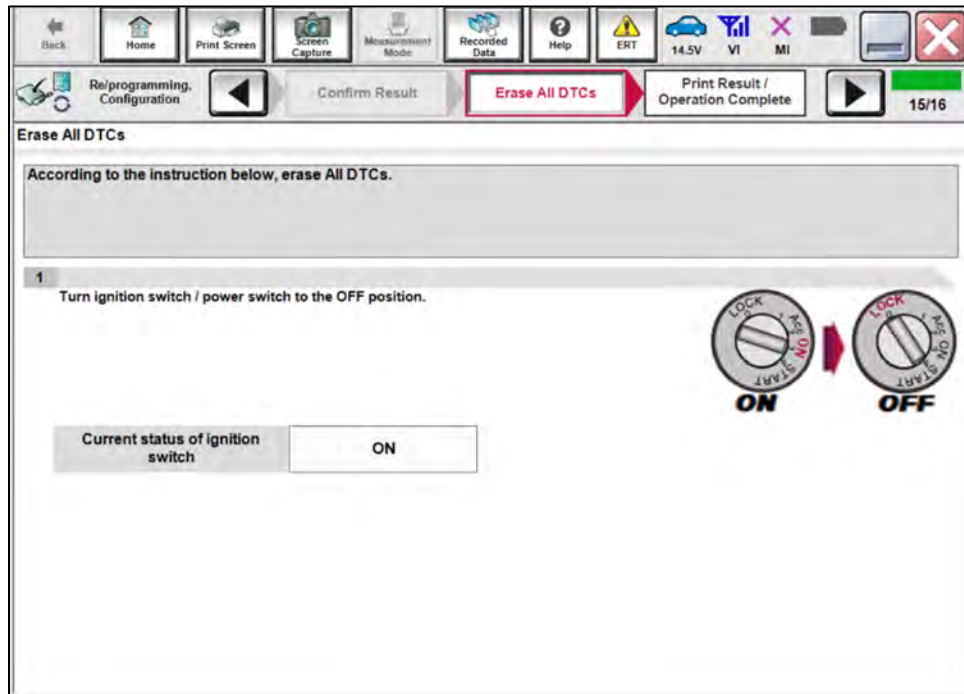


Figure 18

27. Press the power switch two (2) times to turn the EV system back on (Figure 19).
- C-III plus will automatically proceed to **Erase All 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.

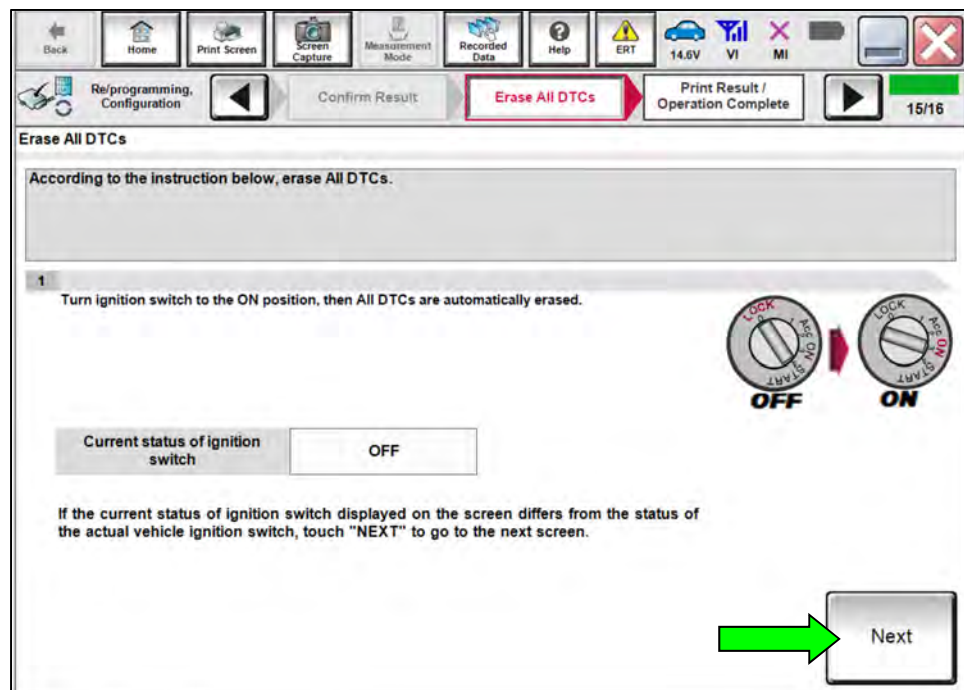


Figure 19



28. Follow the screen prompts to continue.

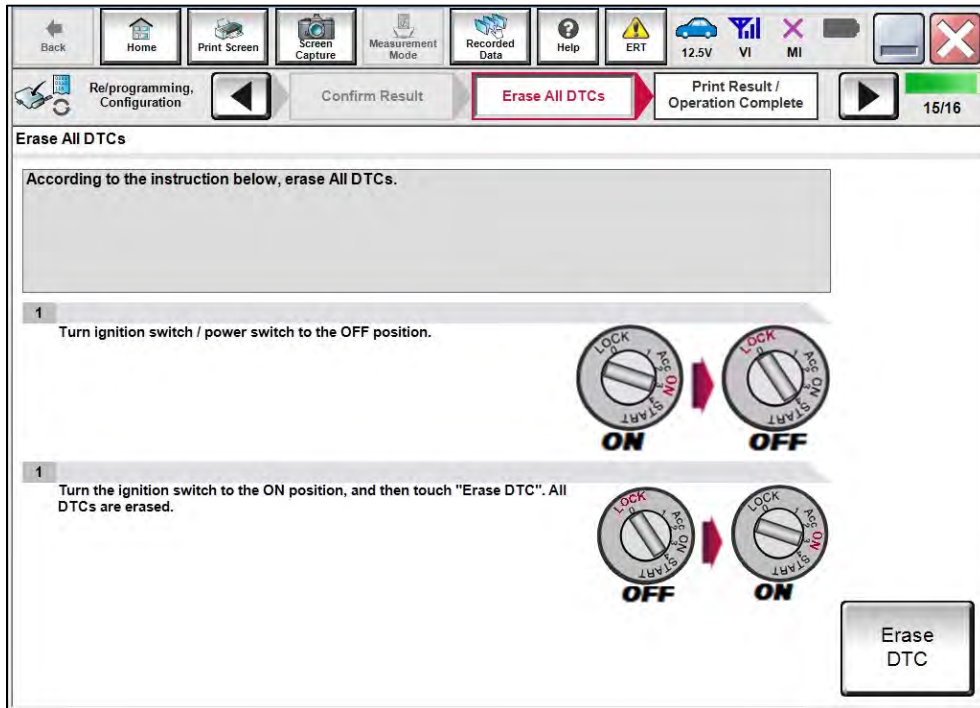


Figure 20

29. Print a copy of this screen (Figure 21) and attach it to the repair order for warranty documentation.

30. Select **Confirm**.

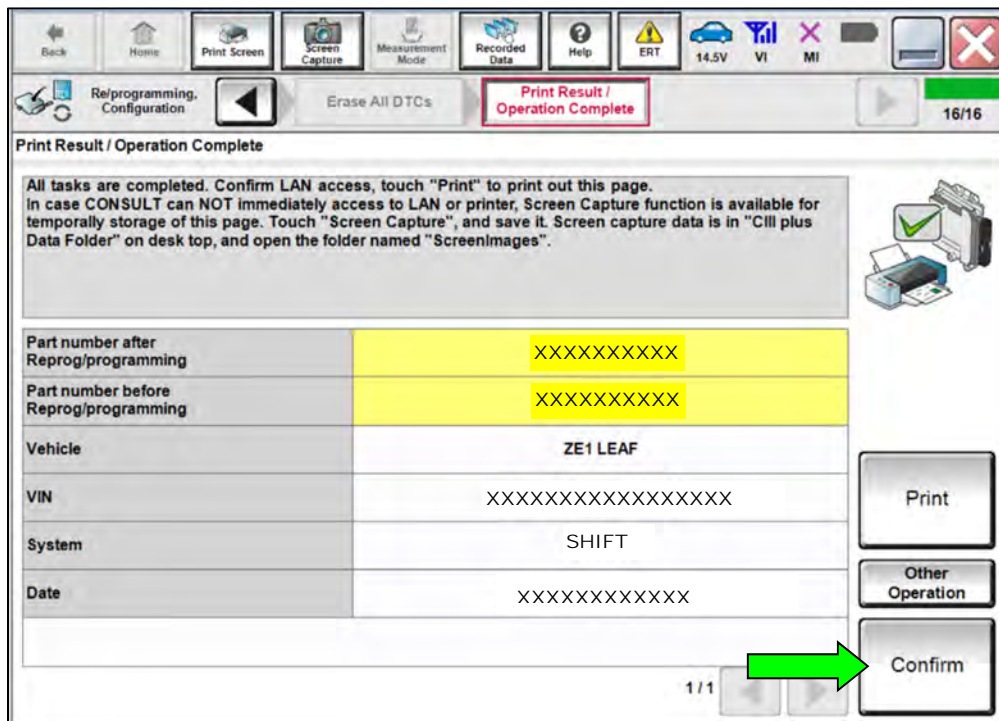


Figure 21

31. Select **Home**.

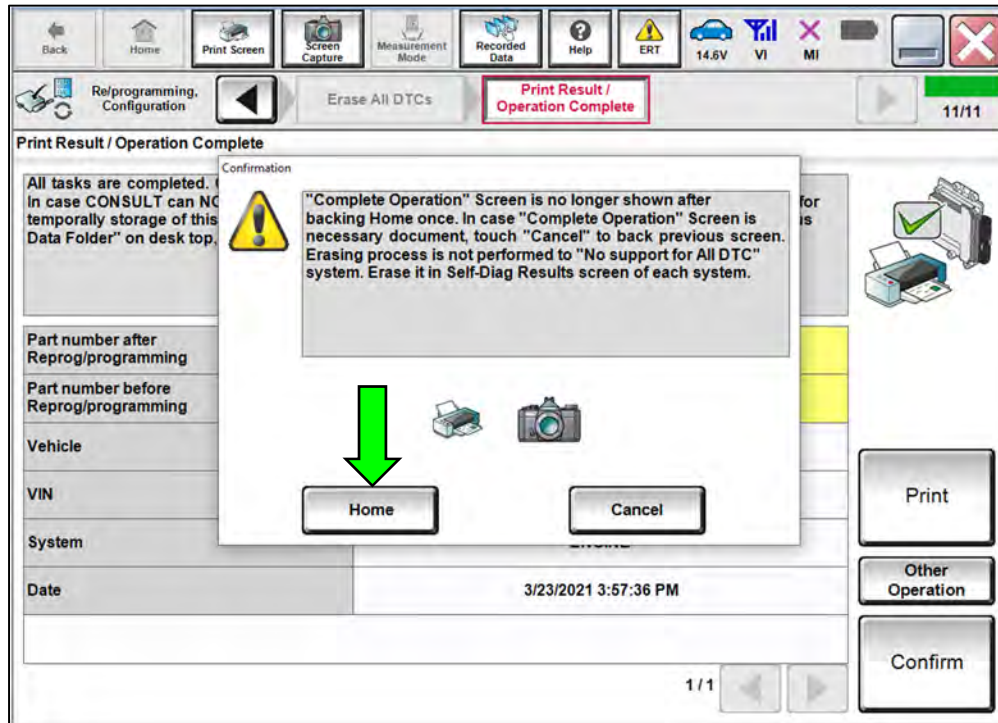


Figure 22

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

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

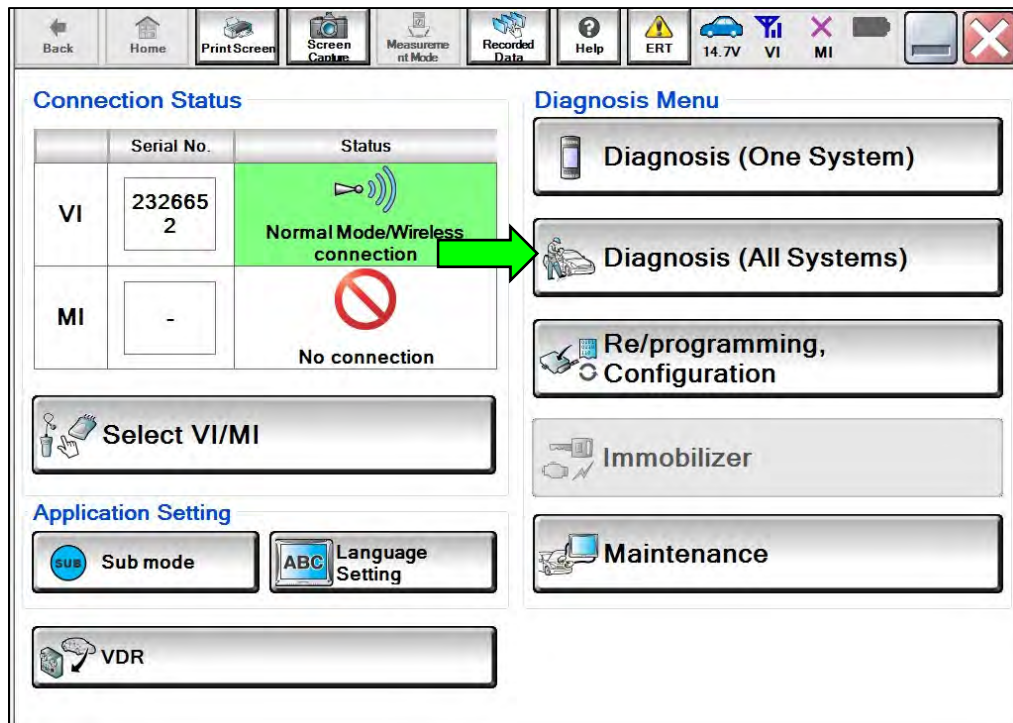


Figure 23

34. Follow the on-screen instructions to **Erase All DTCs**.
  - Verify all DTCs erase normally.
35. Turn the EV system OFF.
36. Disconnect the VI from the vehicle's DLC.

## Shift Control Unit Recovery

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

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

- 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.

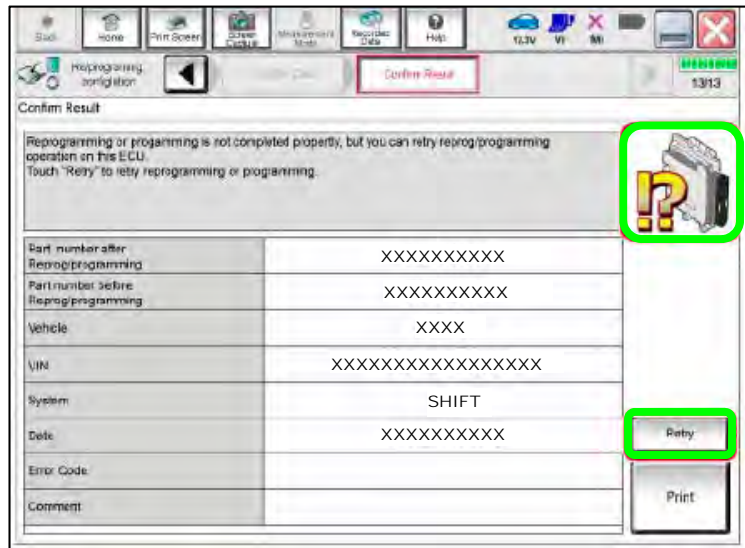


Figure 24

If reprogramming does not complete and the “X” icon displays, as shown in Figure 25:

- 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.

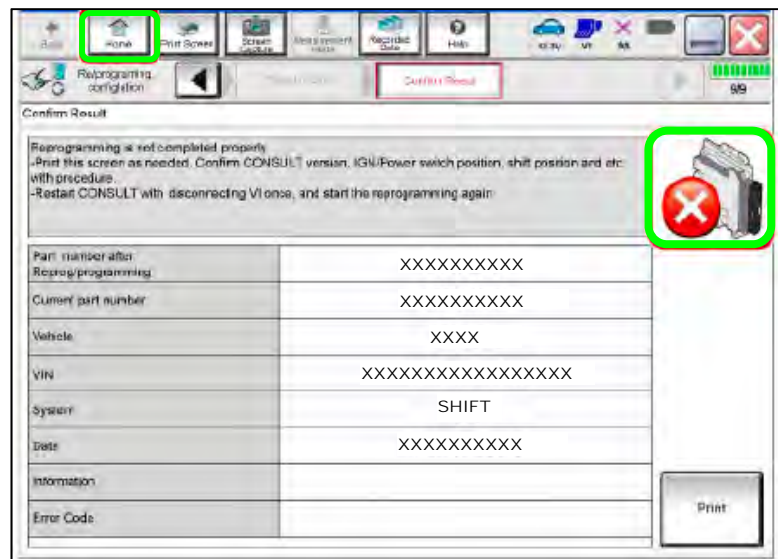


Figure 25



## CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Check Software Program	(1)	JX1TAA	ZE	32	0.3
Check Software Program & Update		JX1UAA			0.5

- (1) Reference the electronic parts catalog and use the VCM Control Unit (23740-\*\*\*\*\*) as the Primary Failed Part (**PFP**).

## AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
February 9, 2024	NTB24-012	Original bulletin published

