



SERVICE BULLETIN

Classification: EL21-009	Reference: NTB21-031	Date: May 18, 2021
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BCM REPROGRAM TO DISABLE FOG LAMP OPERATION DURING HIGH BEAM OPERATION

APPLIED VEHICLES: 2020 Sentra (B18) – SR

IF YOU CONFIRM

The vehicle is in Pennsylvania and the fog lamps remain ON during high beam operation.

ACTION

Reprogram the BCM.

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.

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

Reprogram the BCM

IMPORTANT: Before starting, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All C-III plus software updates (if any) have been installed.
- During the reprogramming process, you will receive some errors. These errors are expected. Please follow all of the steps in this procedure to successfully complete the reprogramming process.

NOTICE

- Connect a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle battery voltage drops below 12.0V or rises above 15.5V during reprogramming, the BCM may be damaged.
- Be sure to turn OFF all vehicle electrical loads.
If a vehicle electrical load remains ON, the BCM 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 BCM 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 BCM may be damaged.

1. Connect the VI to the vehicle.
2. Start C-III plus.
3. Wait for the VI to be recognized.
 - The serial number will display when the VI is recognized.

4. Select Re/programming, Configuration.

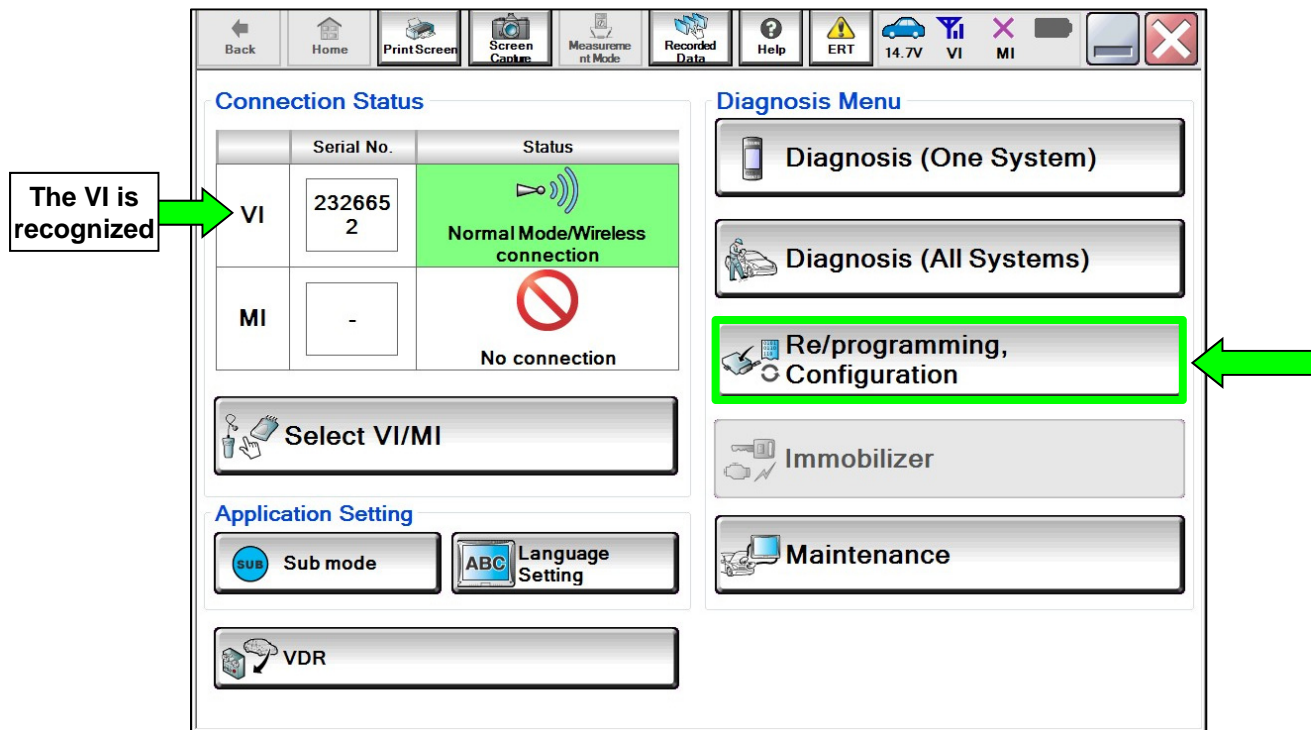


Figure 1

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

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

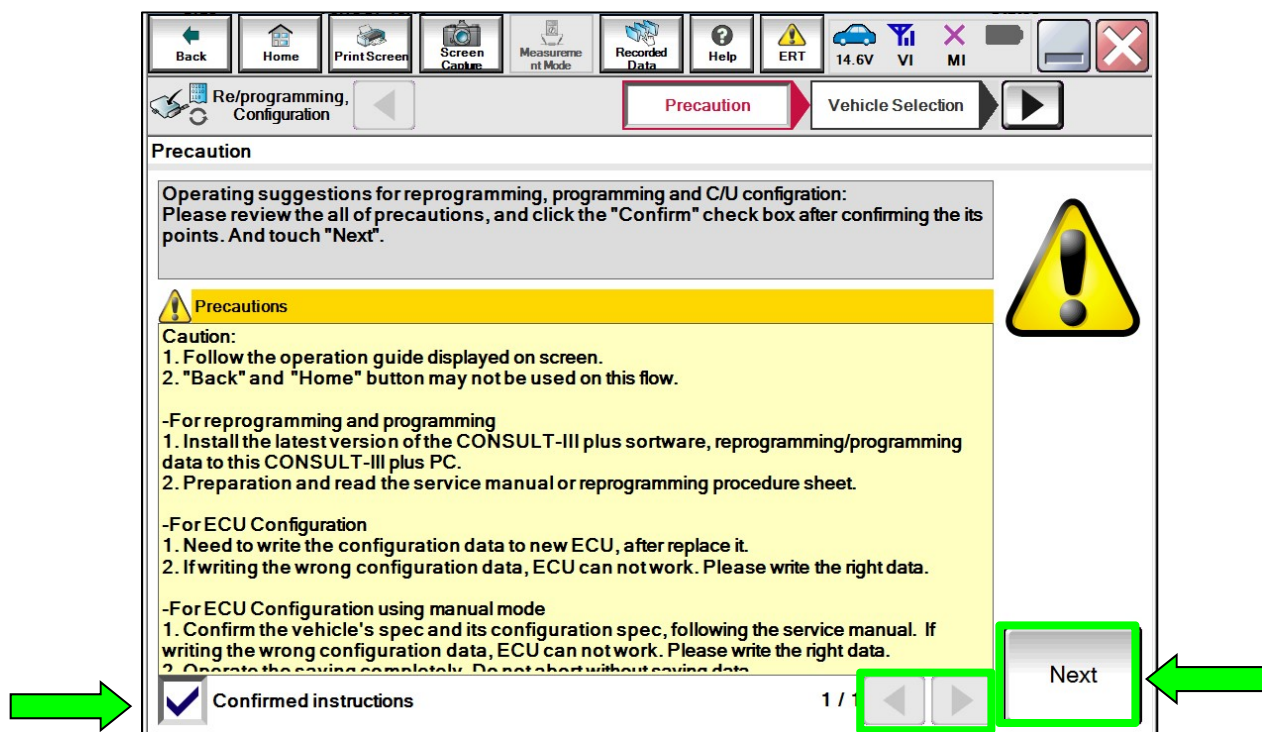


Figure 2

6. Select Automatic Selection(VIN).

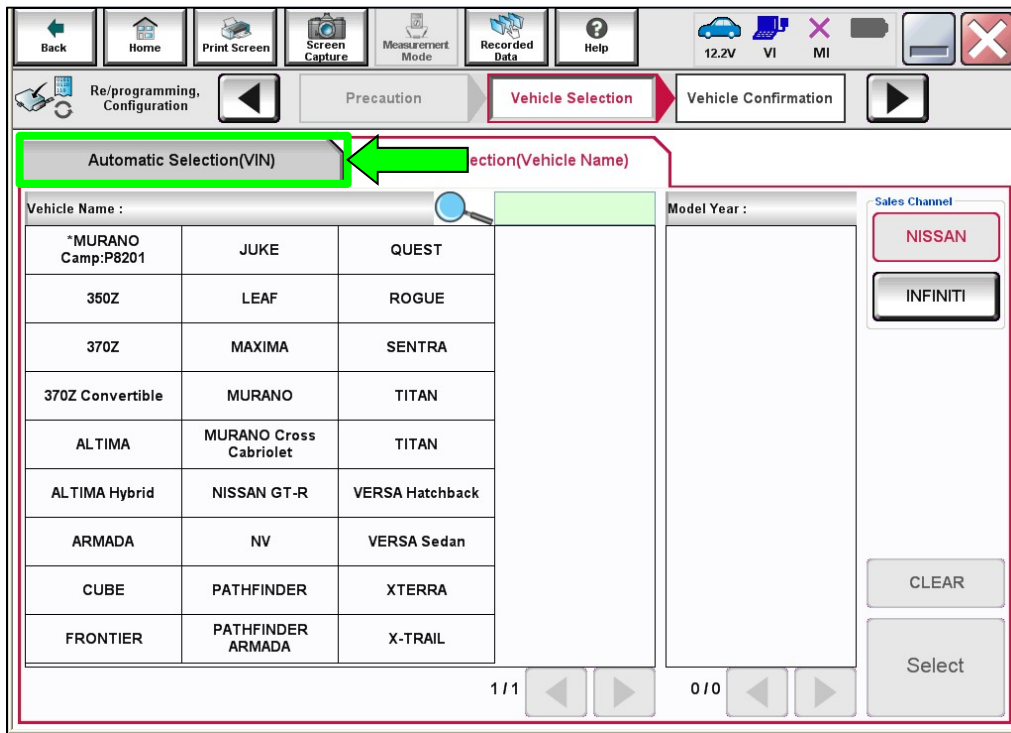


Figure 3

7. Allow the CONSULT to perform automatic VIN selection.

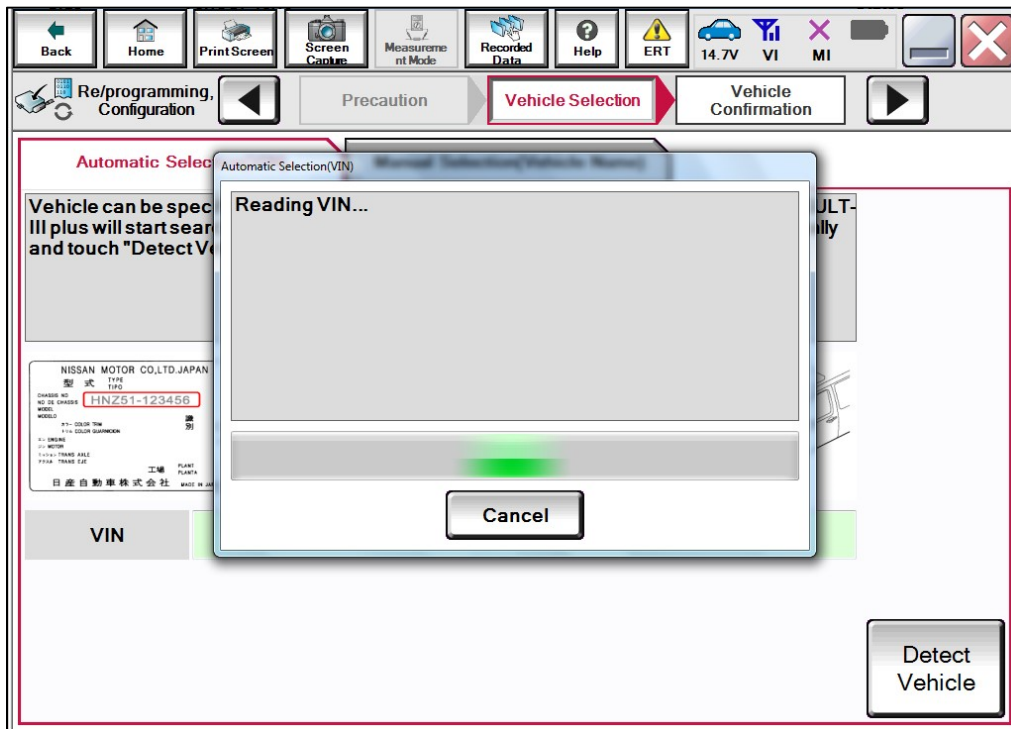


Figure 4

8. Confirm the **VIN or Chassis #** is correct, and then select **Confirm**.

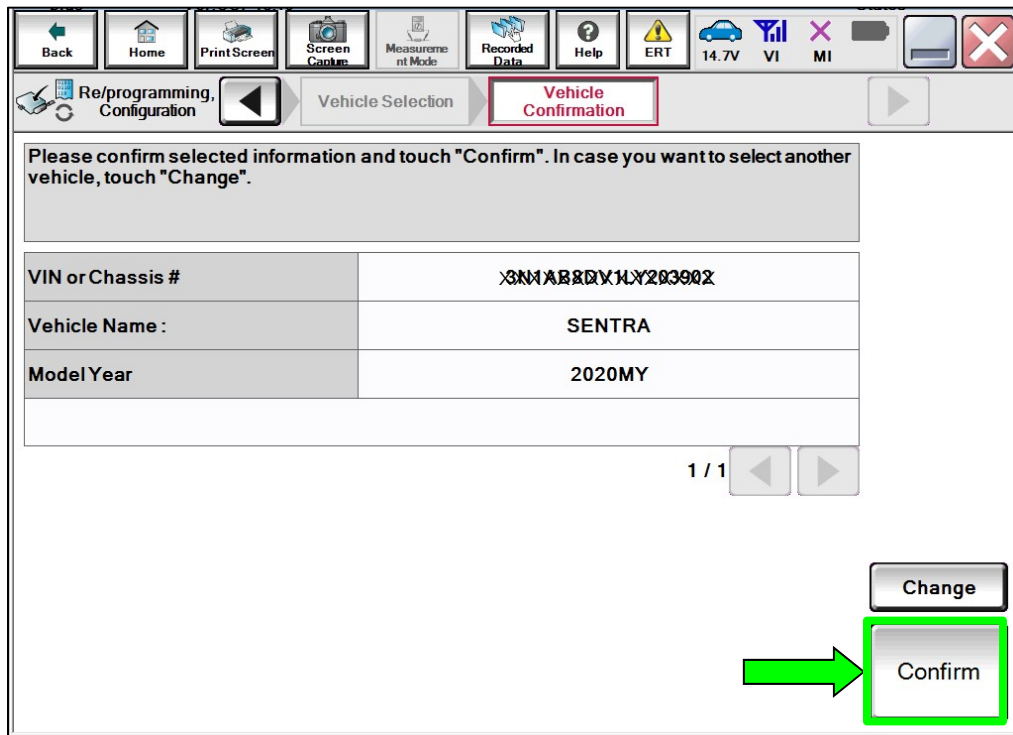


Figure 5

9. Allow the System call to be performed.

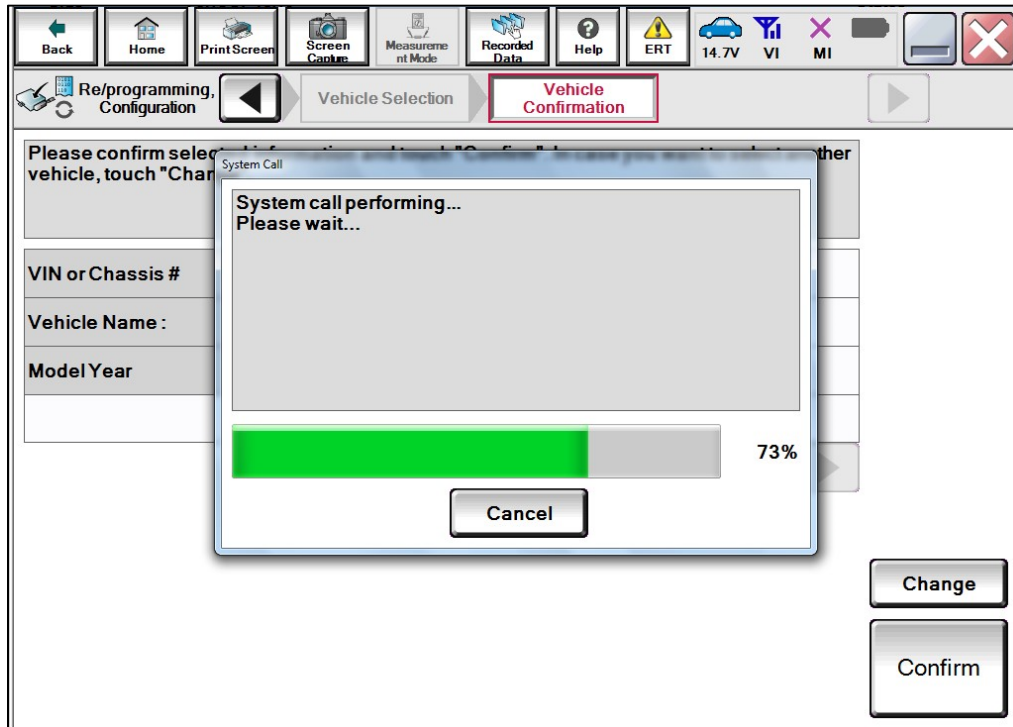


Figure 6

10. Confirm the VIN is correct for the vehicle, and then select **Confirm**.

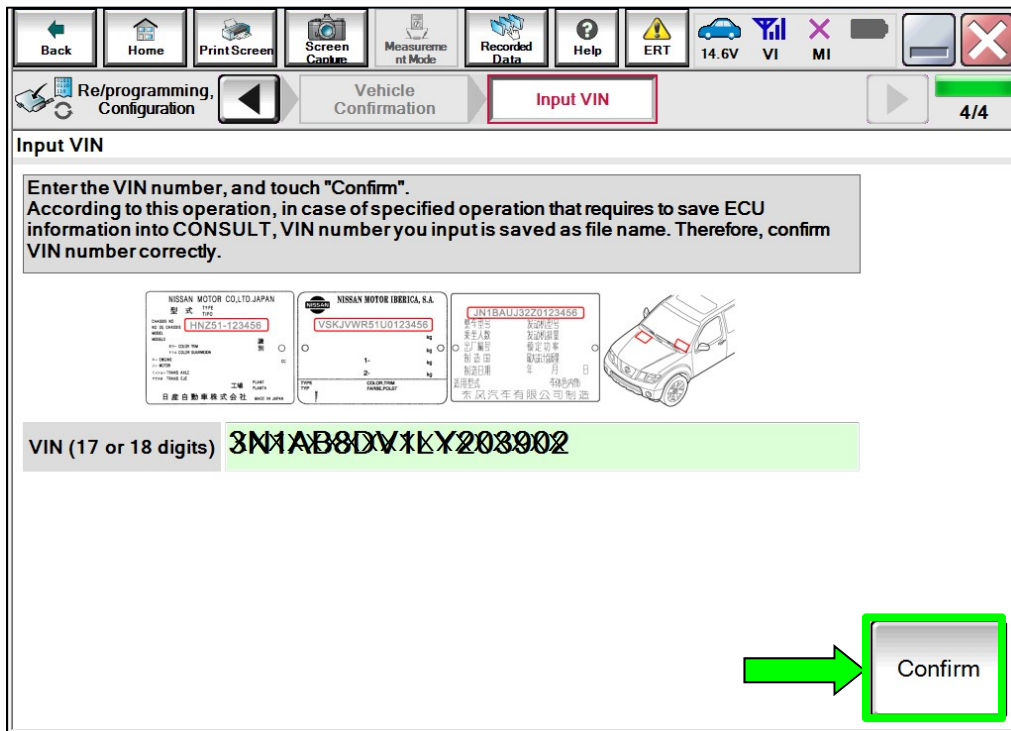


Figure 7

11. Select **BCM**.

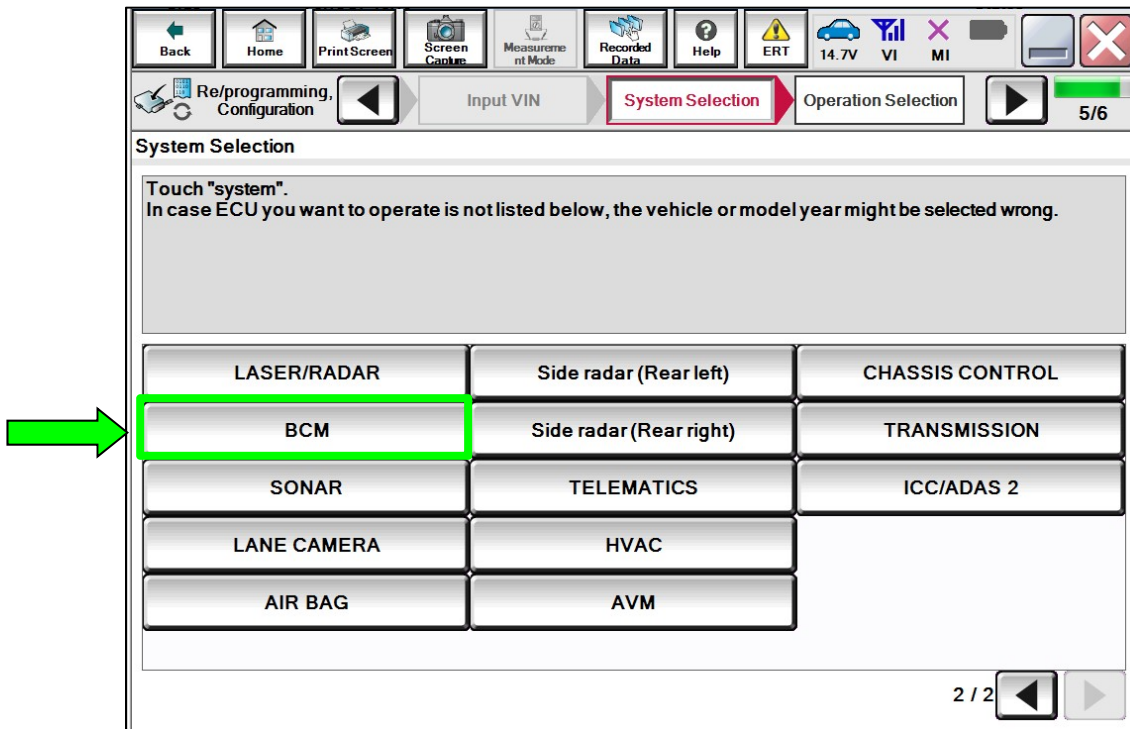


Figure 8

12. Select Reprogramming.

IMPORTANT: During the reprogramming process, you will receive some errors. These errors are expected. Please follow all of the steps in this procedure to successfully complete the reprogramming process.

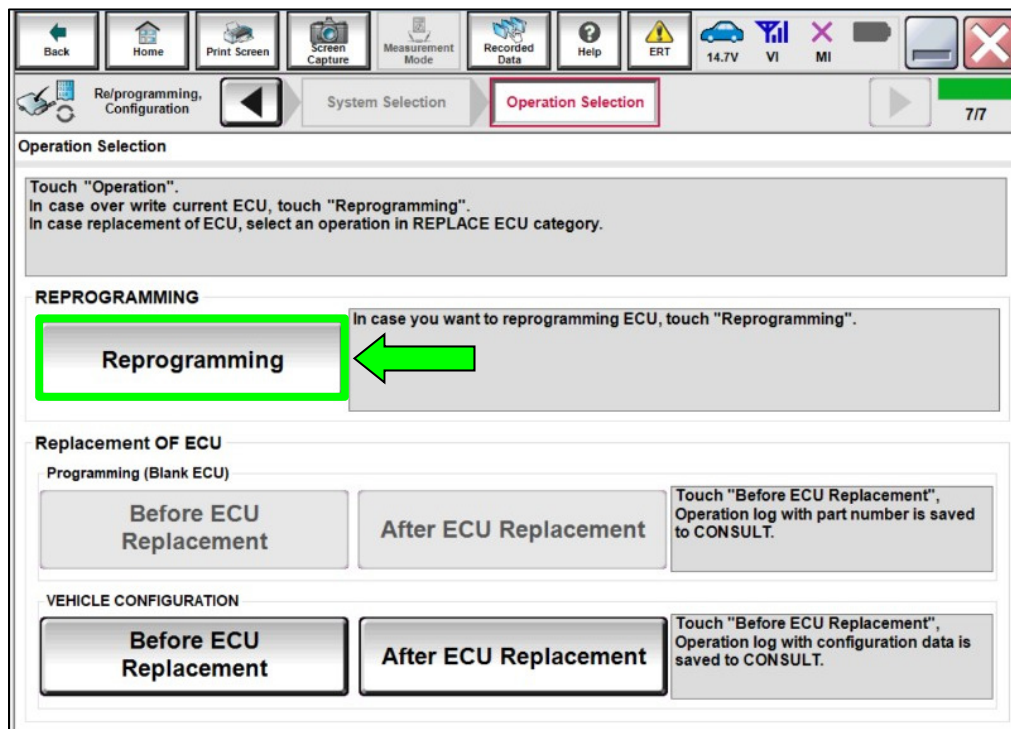


Figure 9

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

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

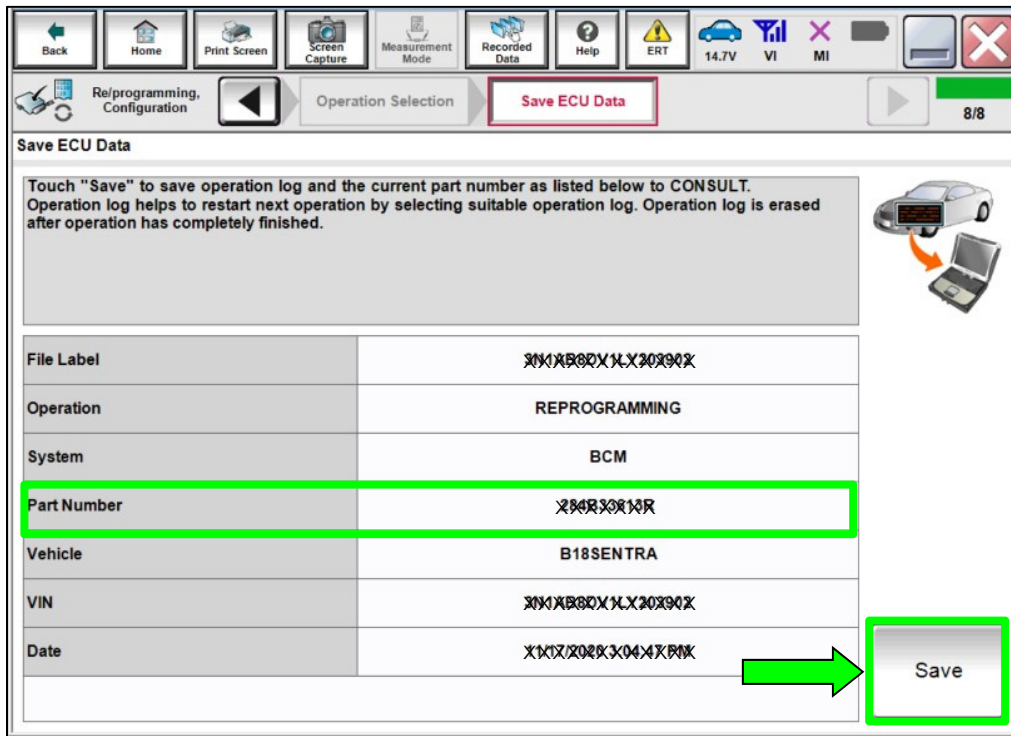


Figure 10

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

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

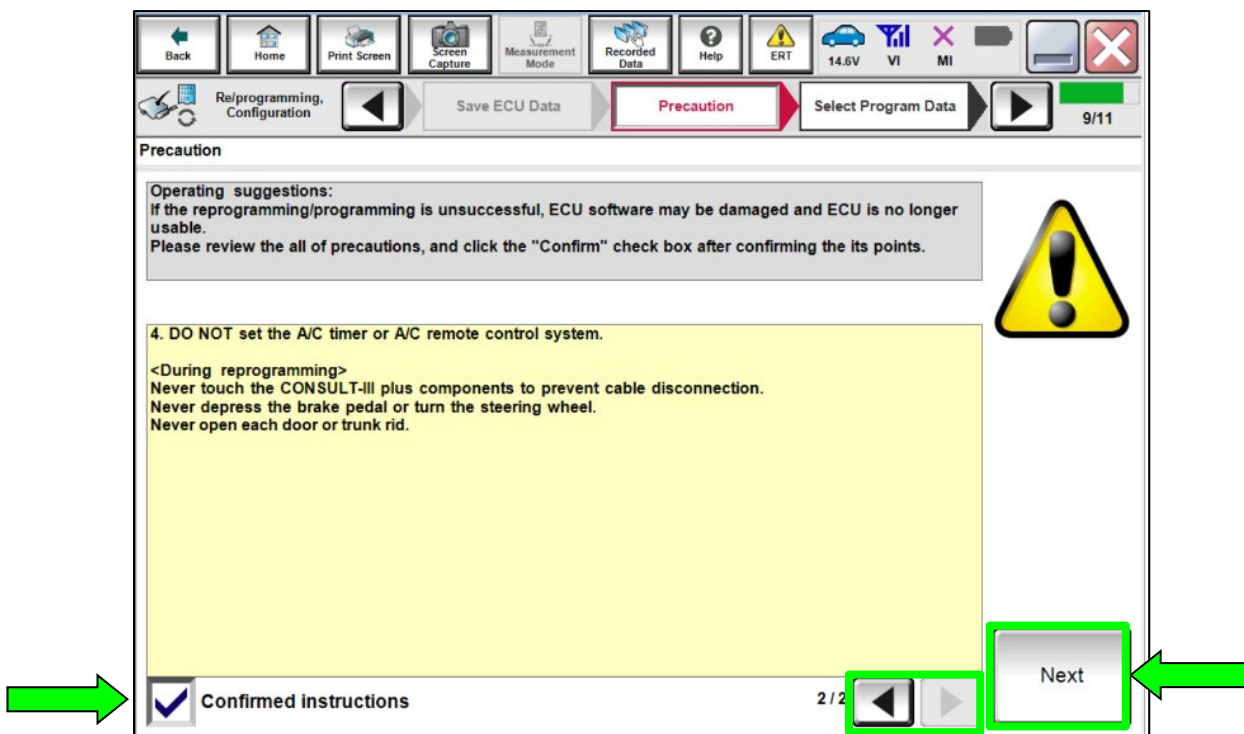


Figure 11

15. Read the **Current Part Number** and **Part Number After Repro/programming**. They should be different (Figure 12).

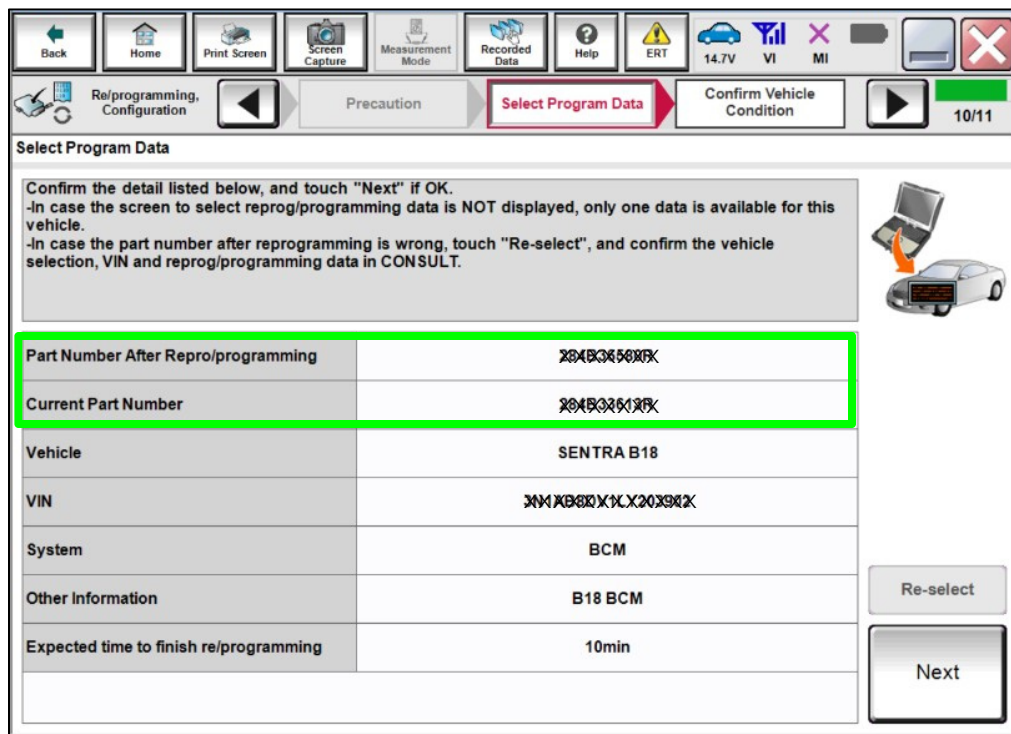


Figure 12

- **NOTE:** If the screen in Figure 13 is shown, the Service Procedure is complete. Skip to step 40 on page 25.

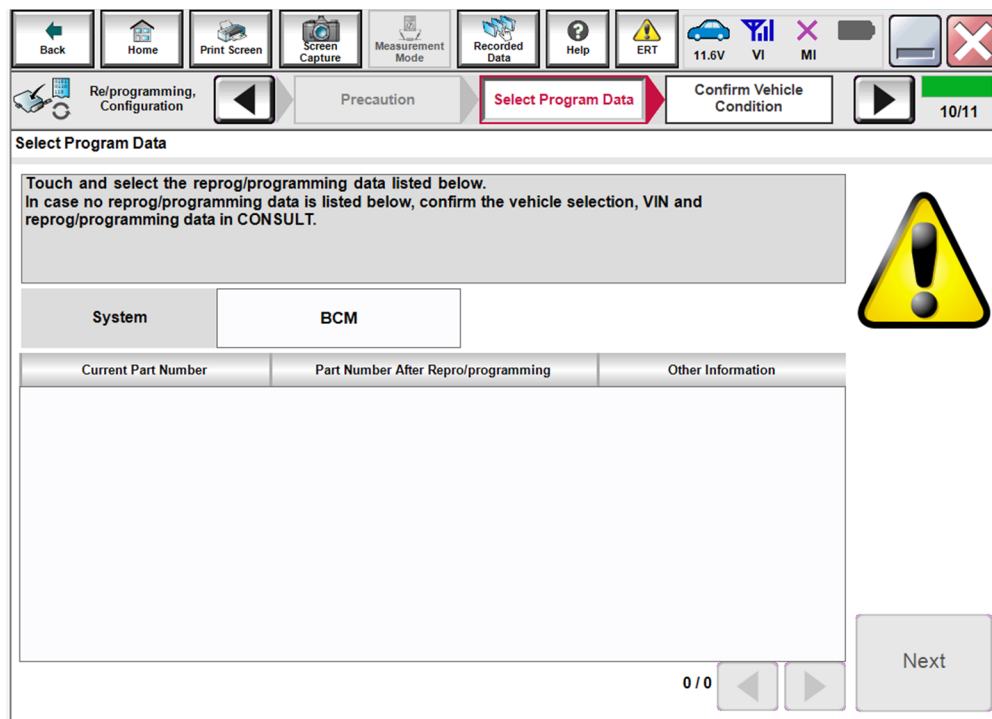


Figure 13

16. Select **Next**.

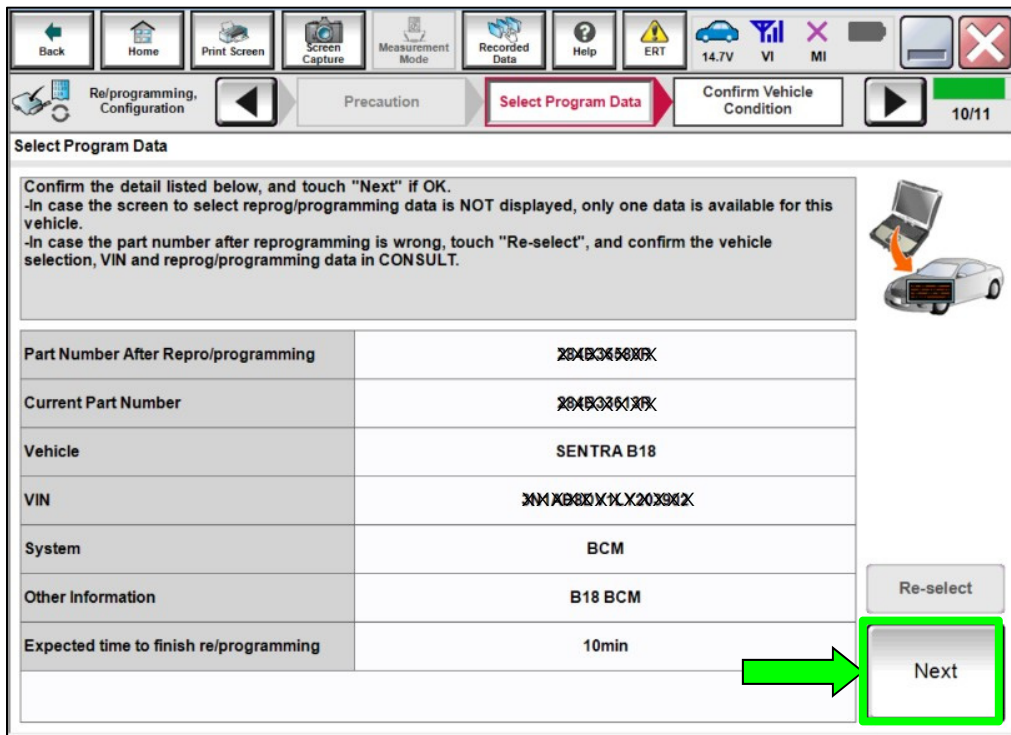


Figure 14

17. Confirm the battery charger is ON and the battery voltage is between 12V-15.5V, and then select **Next**.

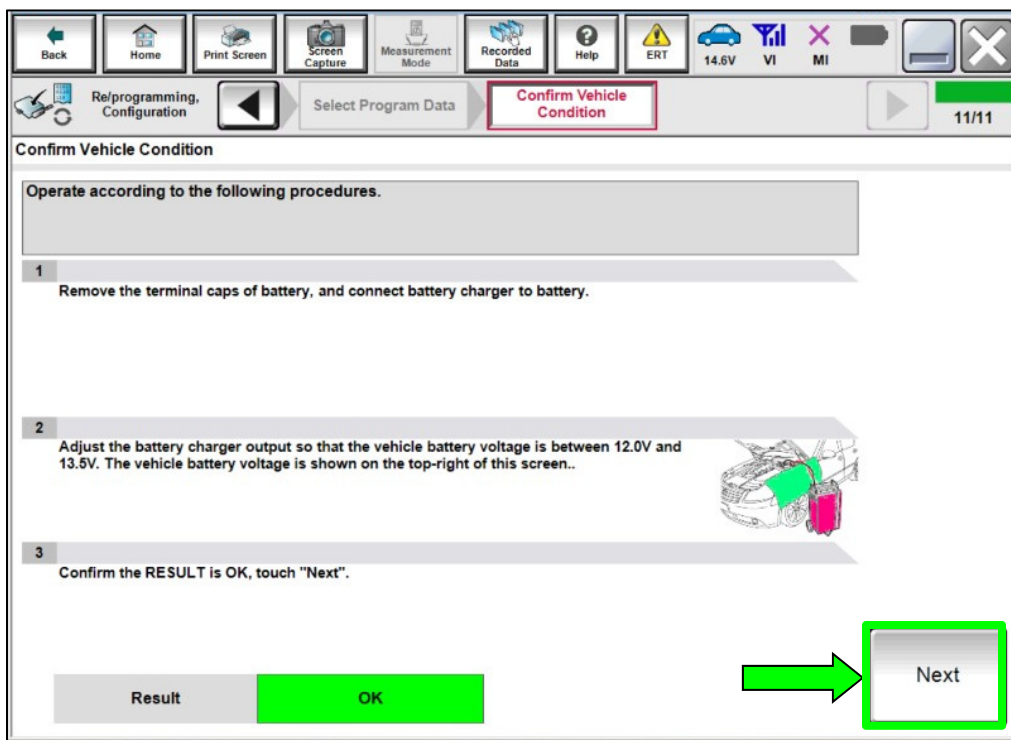


Figure 15

18. Confirm the battery voltage Judgment is OK, and then select **Start**.

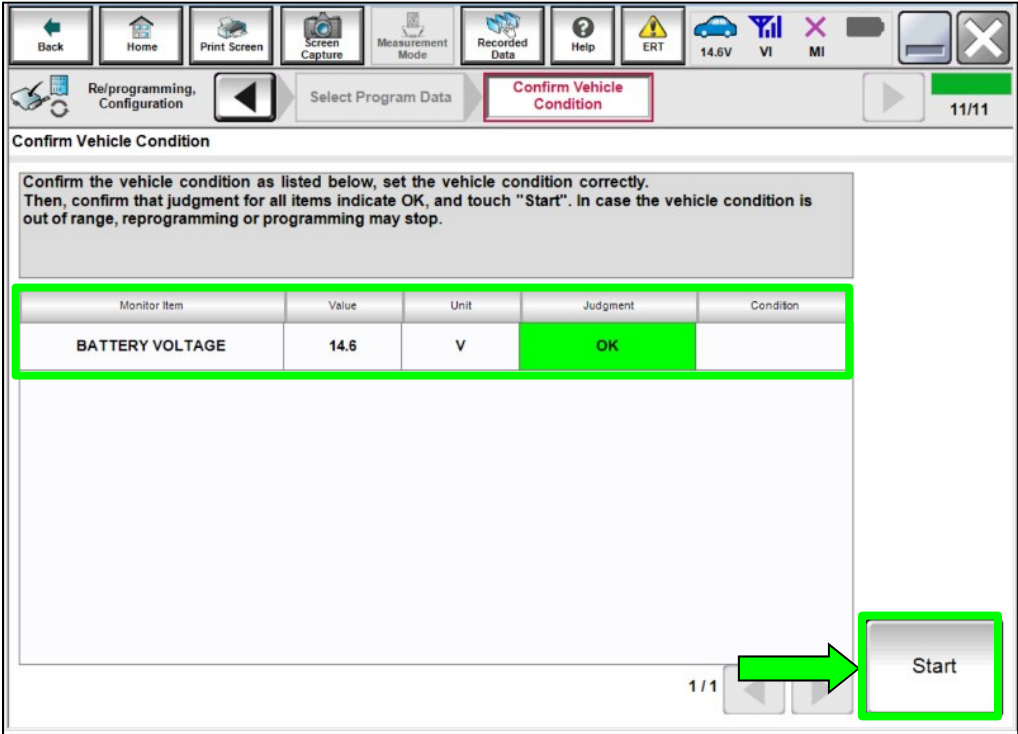


Figure 16

19. Select **USA/CANADA Dealers** from the drop down menu, and then select **OK**.

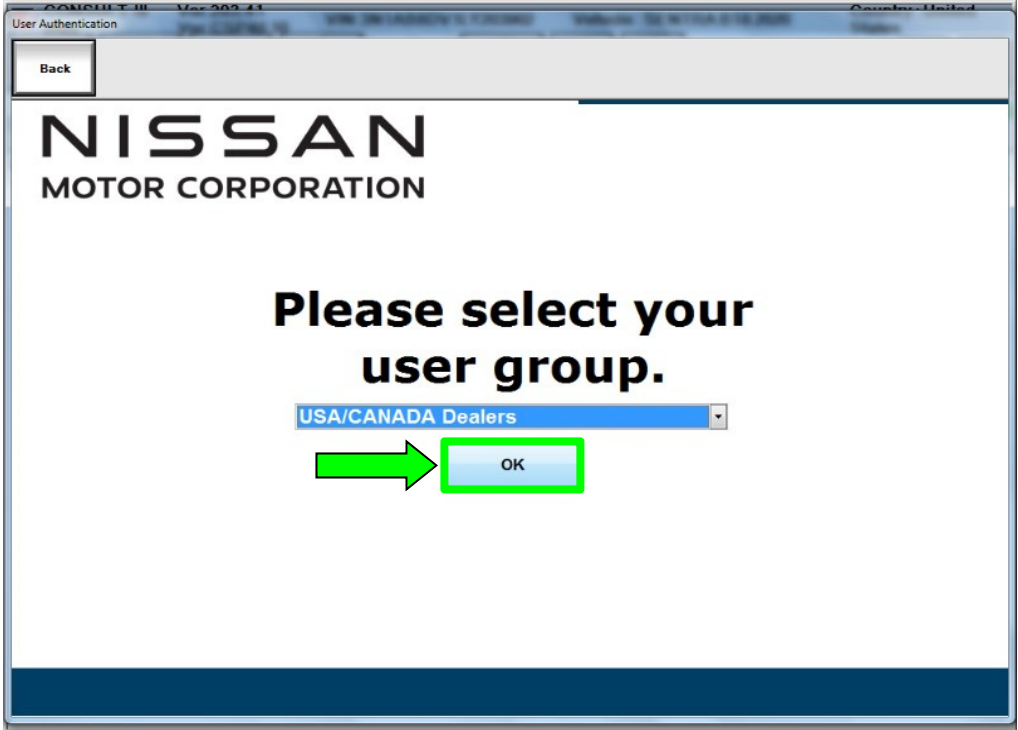


Figure 17

20. Login using your NNAnet credentials.

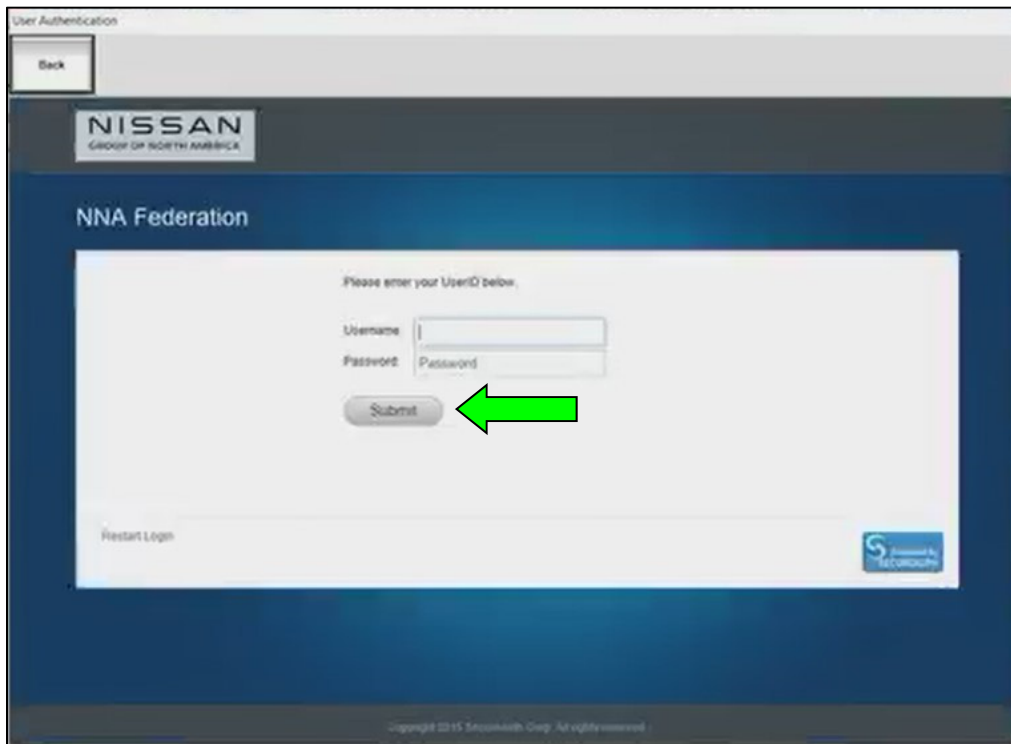


Figure 18

21. Allow CONSULT to reprogram the BCM.

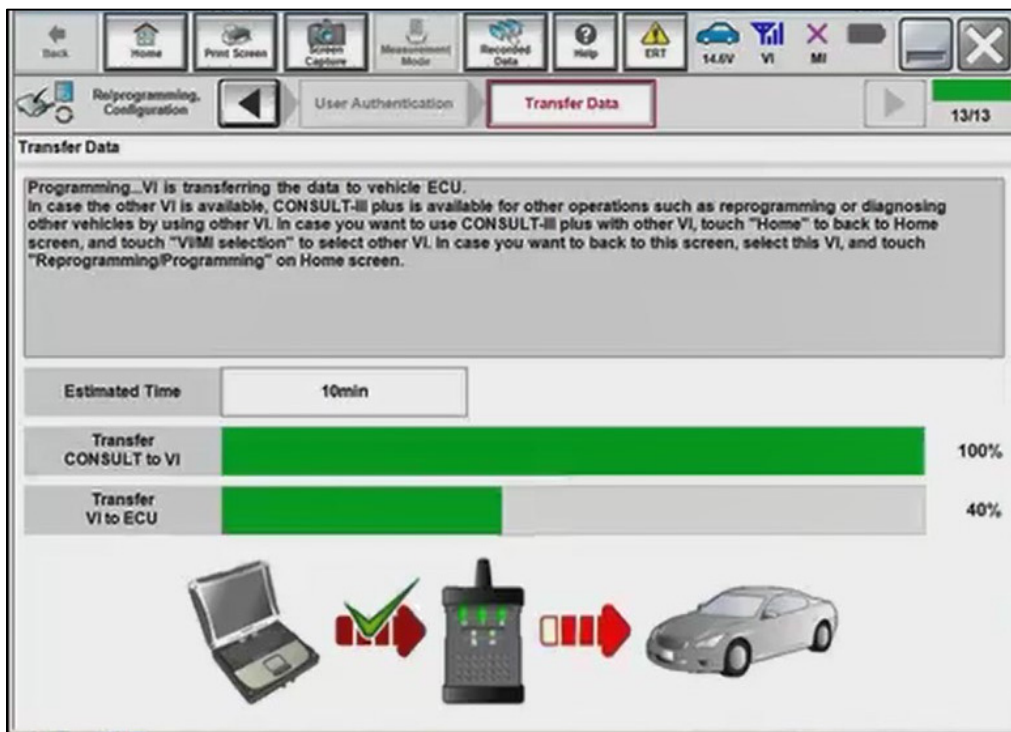


Figure 19

22. Toward the end of the reprogram, the CONSULT will show an Error Code “**Reprogramming Ignition off Error**” and the vehicle ignition will turn off.
- a) Turn the ignition ON, engine OFF.
 - b) Select **Retry**.

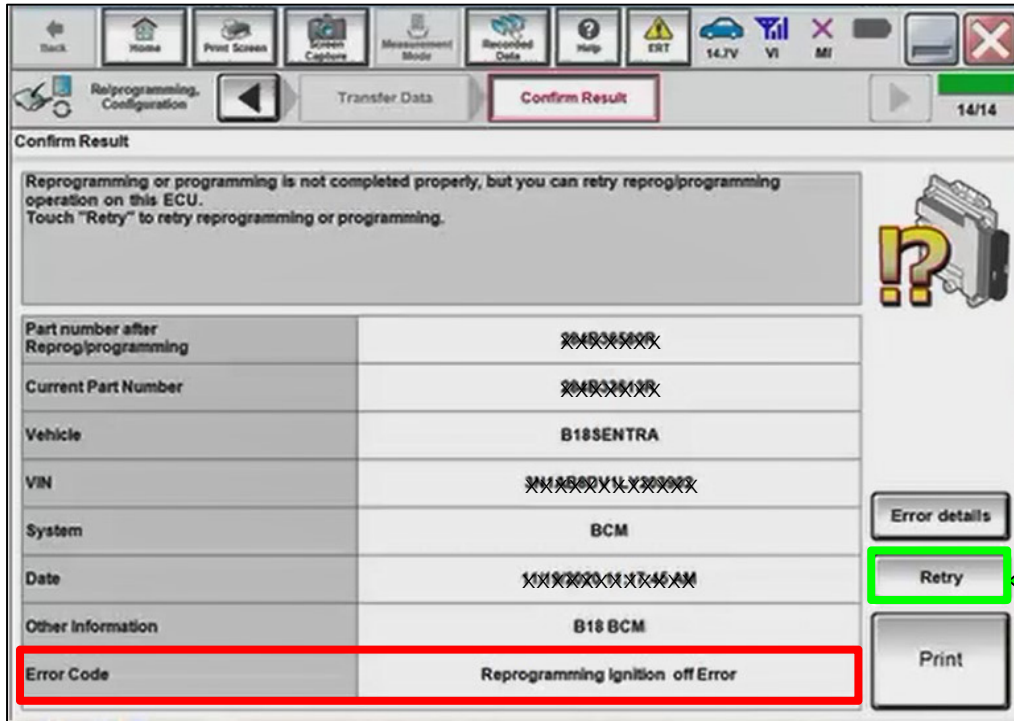


Figure 20

23. If **Error Code** description “**Reprogramming Not Needed**” is displayed after another reattempt, this indicates the reprogramming has successfully completed. Select **Home**, and then proceed to step 24 on page 16.

NOTE: If the screen in Figure 21 does not display (indicating that reprogramming did not complete), refer to the information on the next page.

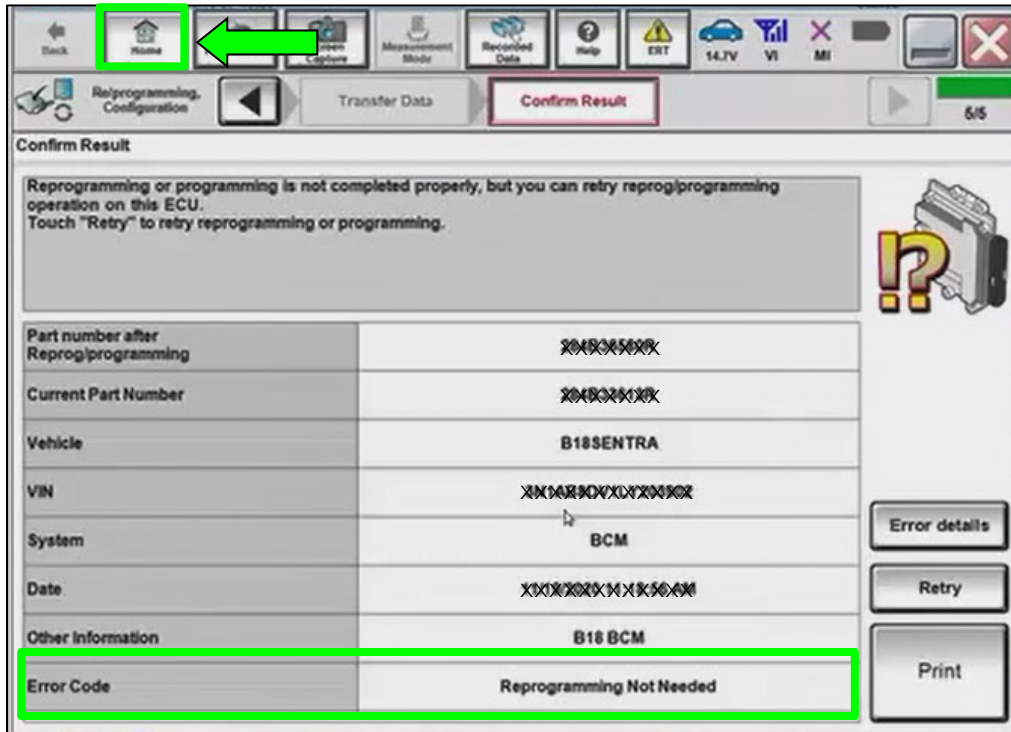


Figure 21

BCM Recovery:

If reprogramming does not complete and the “!?” symbol displays as shown in Figure 22:

- Check battery voltage (12.0 – 15.5V).
- Ignition is ON, engine is OFF.
- External Bluetooth® devices are OFF.
- All electrical loads are OFF.
- Select **Retry** and follow the on screen instructions.

NOTE: **Retry** may not go through on first attempt and can be selected more than once.

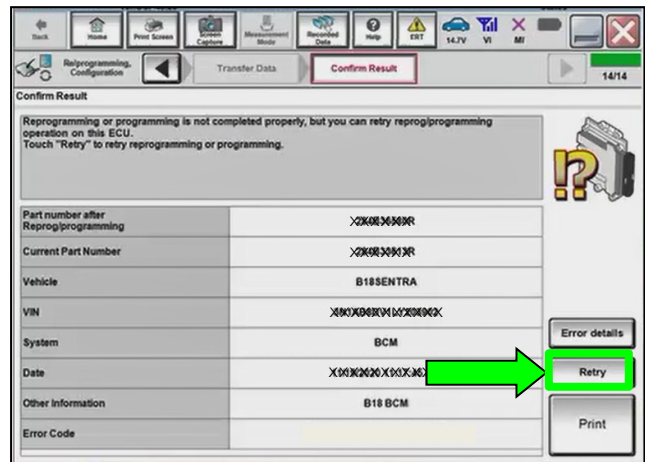


Figure 22

If reprogramming does not complete and the “X” symbol displays as shown in Figure 23:

- Do not disconnect the VI or shut down C-III plus if reprogramming does not complete.
- Check battery voltage (12.0 – 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine is OFF.
- Transmission in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select **Home**, and then restart the reprogram procedure from the beginning.

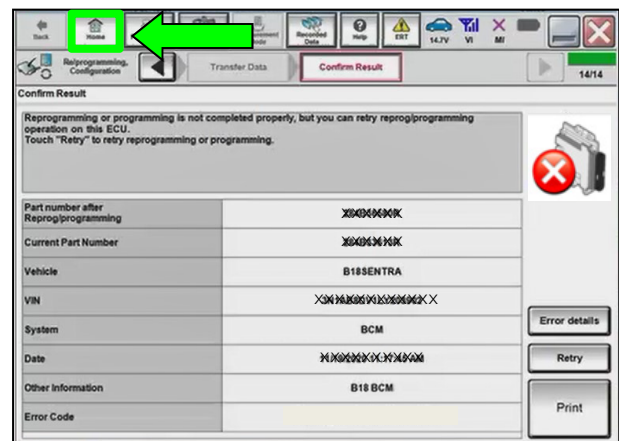


Figure 23

Configure the BCM

IMPORTANT: Approximately 90 seconds after the reprogram has completed, the BCM will enter battery saver mode and will turn the ignition off.

- Periodically check the vehicle to verify the ignition is still on and turn the ignition to the ON position as needed.
- This condition will no longer be present after the BCM has been configured.

24. Locate the vehicle's EIM (End Item Model) code and write the code on the repair order.

HINT: The EIM code is located on the VIN label on the driver side b-pillar.

NOTE: There are only 2 possible EIM codes for the applied vehicle.

- BDRALRZB18DUA-----
- BDRALRZB18DUAC----

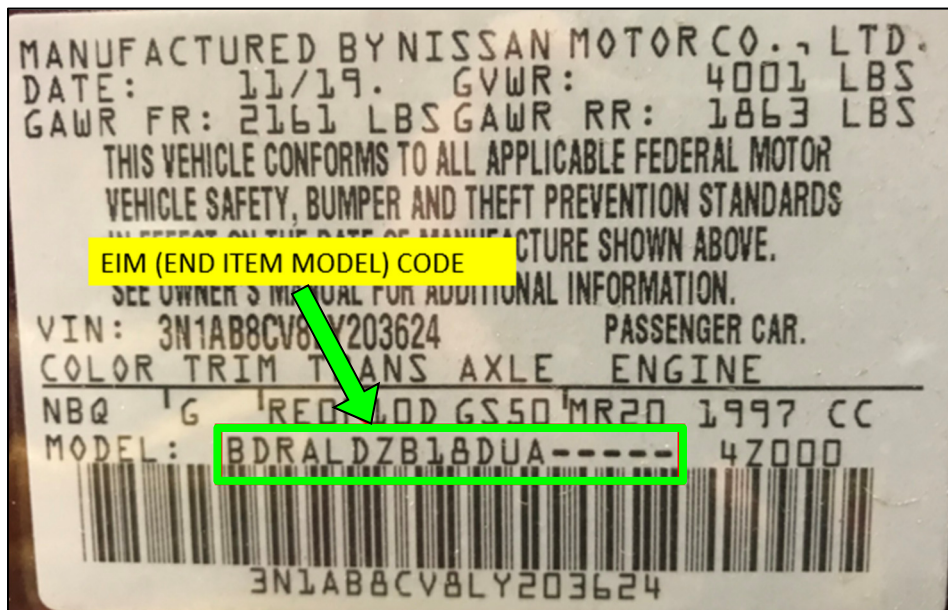


Figure 24

25. Repeat steps 4 - 11 on pages 3 - 6.

26. Select **After ECU Replacement** under **VEHICLE CONFIGURATION**.

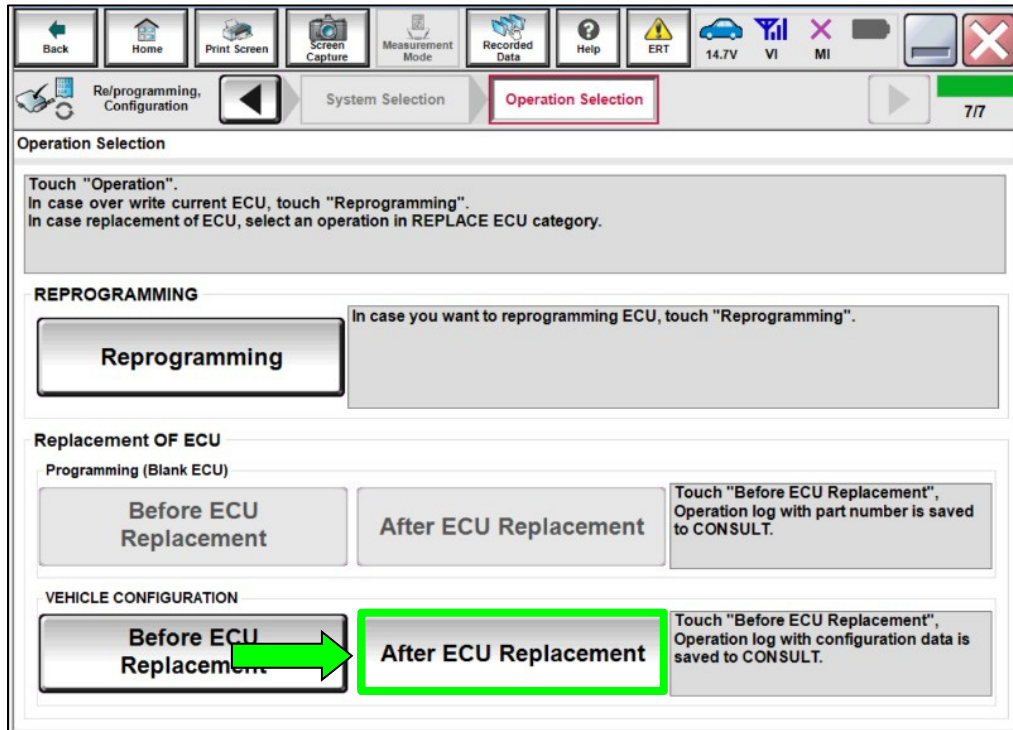


Figure 25

27. Select **Manual selection**.

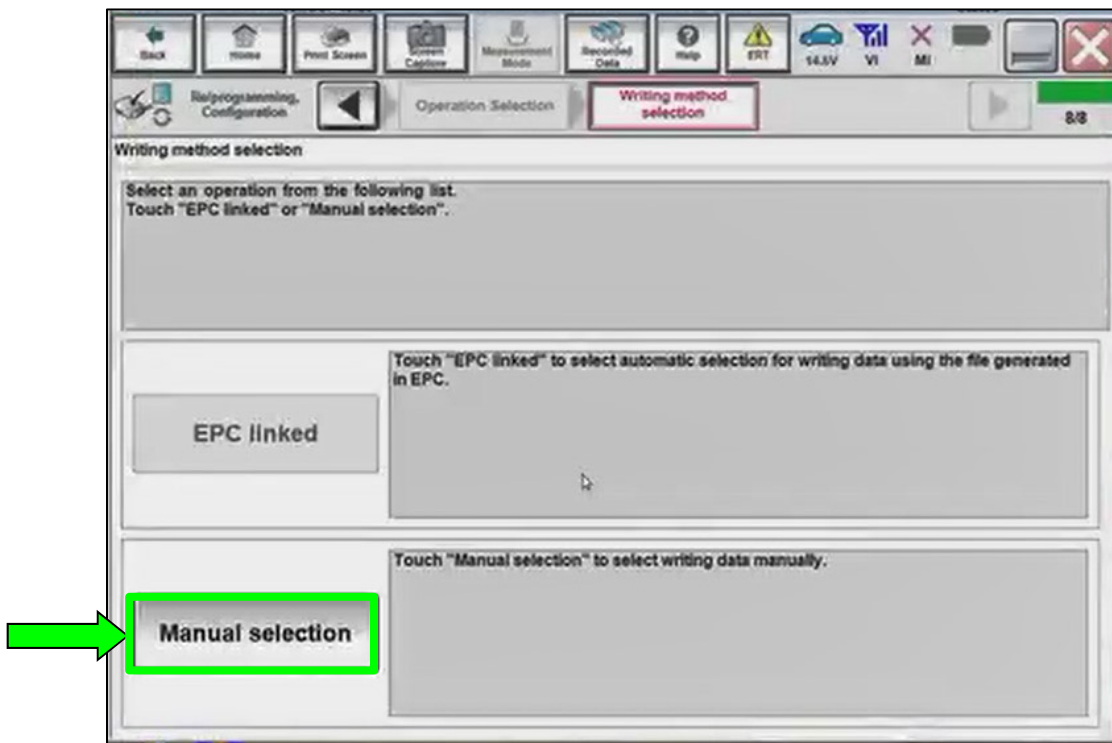


Figure 26

28. Using the EIM code documented in step 24 on page 16, select the correct **Setting Value** for each **Item**, and then select **Next**.
- Refer to **Table A** on page 19 for the correct **Setting Value**.

NOTICE

To prevent damage to the BCM, be sure the correct BCM settings are selected for the proper vehicle EIM code. Failure to select the correct BCM settings will require the BCM to be replaced.

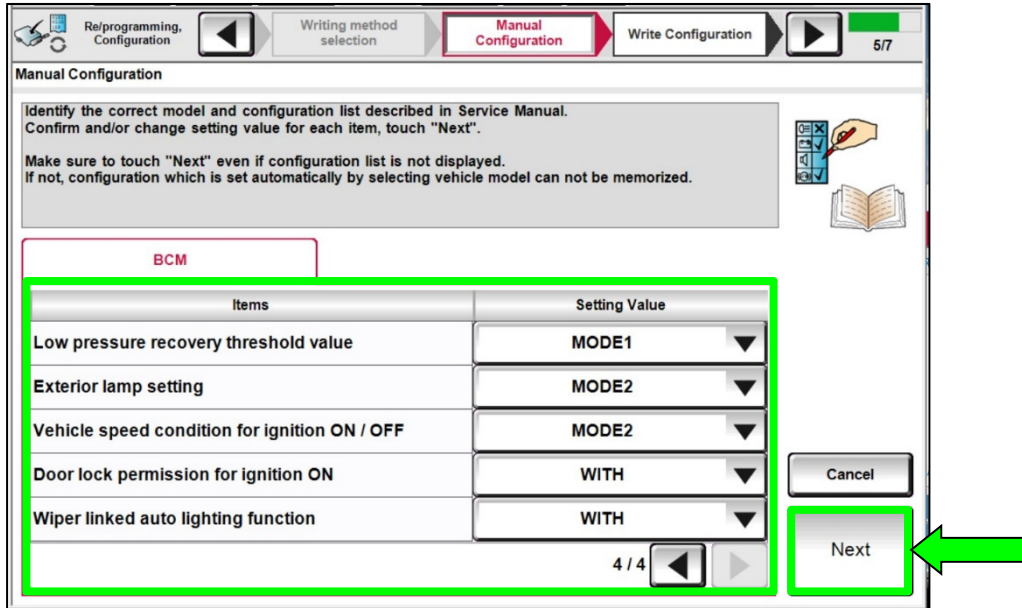


Figure 27

Table A

	BCM SETTING VALUES PER EIM	
	SENTRA 20MY SR	
ITEMS	BDRALRZB18DUA-----	BDRALSZB18DUAC-----
PAGE 1/4		
Daytime running light	WITH	WITH
Lane camera unit	WITH	WITH
High beam assist / ALH setting	MODE2	MODE2
AV control unit	WITH	WITH
TCU	WITHOUT	WITHOUT
PAGE 2/4		
Turn signal lamp variant	WITH	WITHOUT
Remote function (flasher)	MODE1	MODE1
Combination switch type	MODE3	MODE3
Paddle shift	WITHOUT	WITHOUT
A/T	WITH	WITH
PAGE 3/4		
Auto door lock vehicle speed setting	MODE2	MODE2
Vehicle security alarm	WITH	WITH
TPMS	WITH	WITH
Easy fill function	WITH	WITH
Recommended reference air pressure (rear wheel)	MODE1	MODE1
PAGE 4/4		
Low pressure recovery threshold value	MODE1	MODE1
Exterior lamp setting	MODE2	MODE2
Vehicle speed condition for ignition ON / OFF	MODE2	MODE2
Door lock permission for ignition ON	WITH	WITH
Wiper linked auto lighting function	WITH	WITH

29. Verify the ignition is ON and the engine is OFF, and then select **OK** to write the configuration.

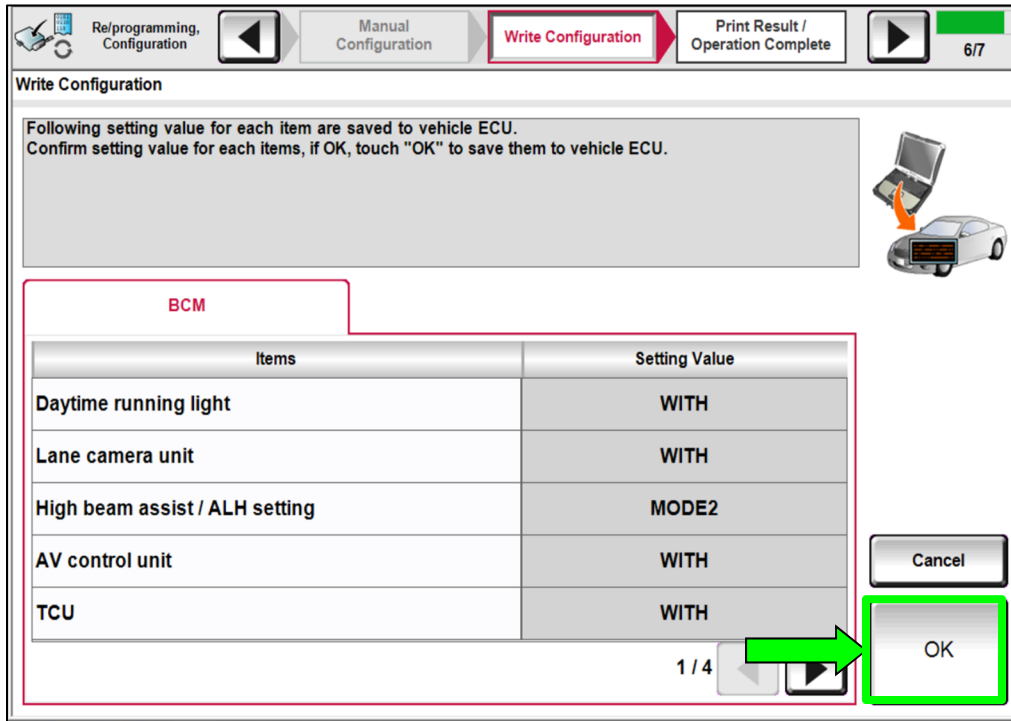


Figure 28

30. Allow the configuration to write to the BCM.

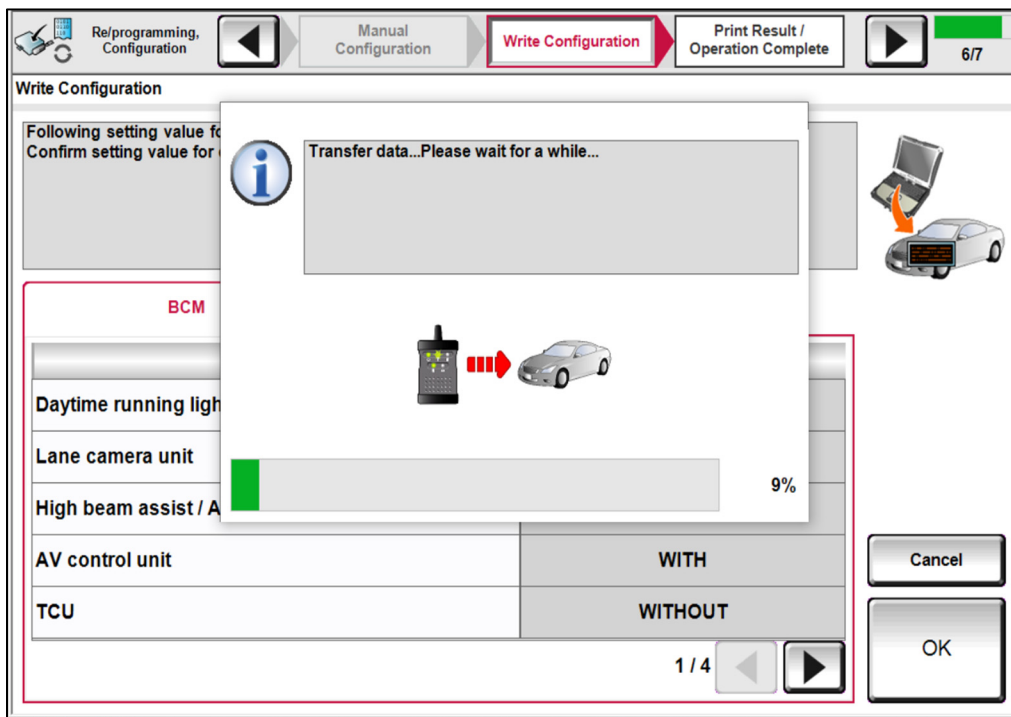


Figure 29

31. Select **End**.

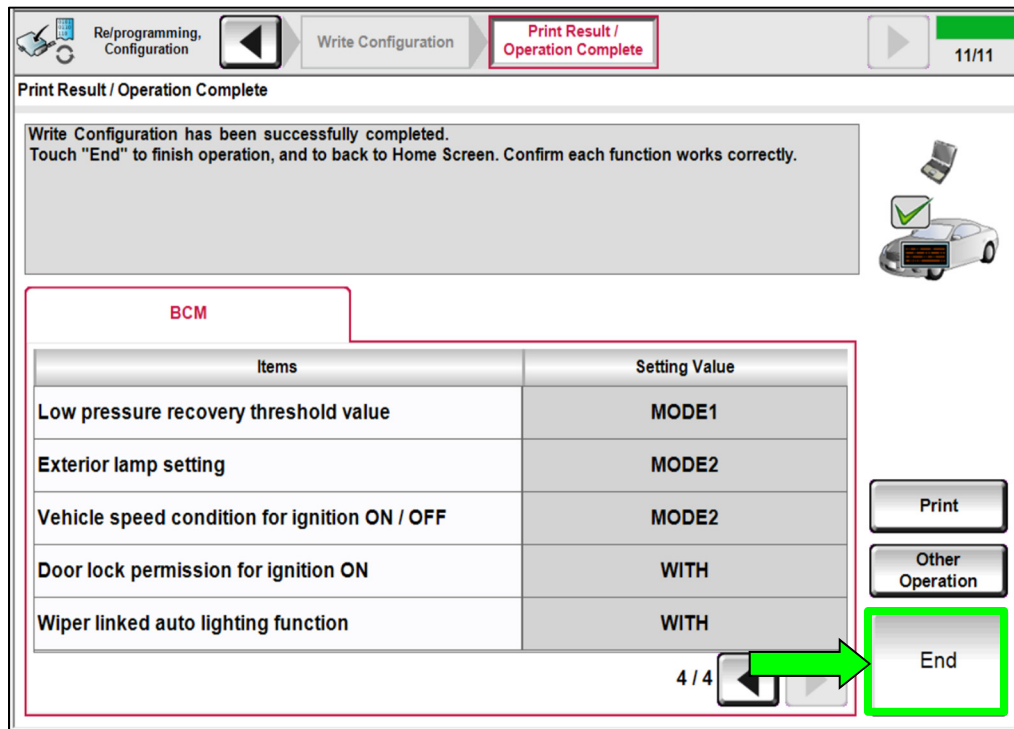


Figure 30

Register TPMS Sensors

32. Register the TPMS sensors.

- For TPMS sensor ID registration, refer to the Electronic Service Manual (ESM) section: **SUSPENSION > ROAD WHEELS & TIRES > BASIC INSPECTION > ID REGISTRATION PROCEDURE.**

Erase DTCs

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

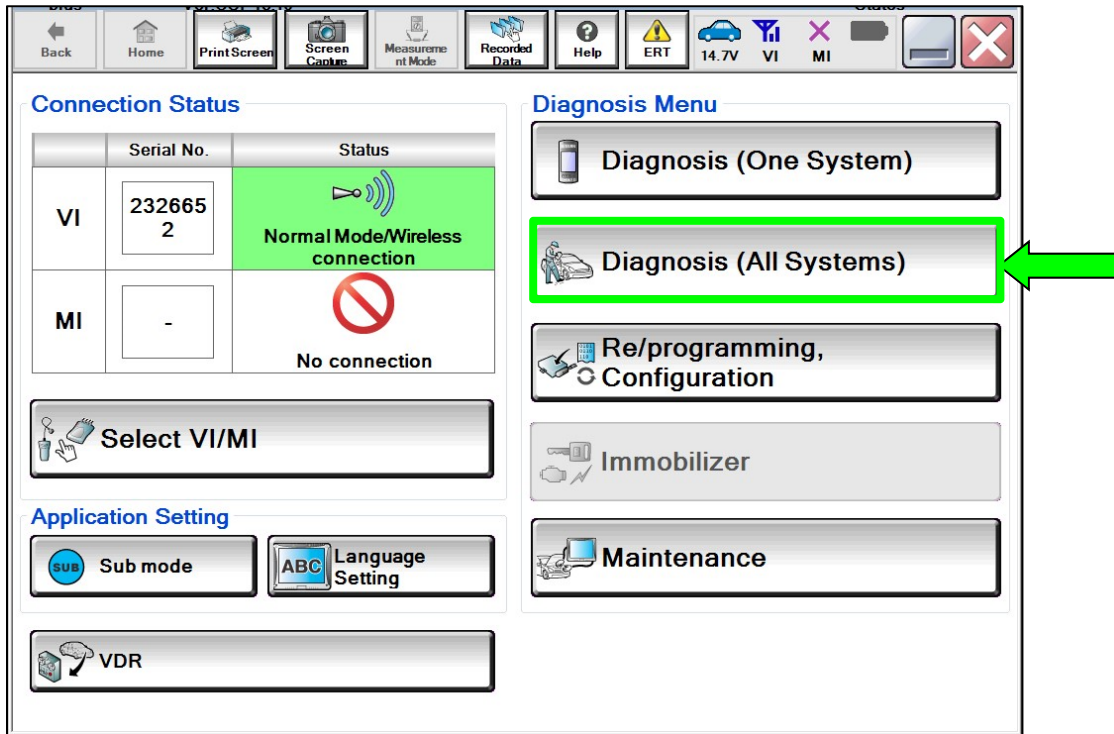


Figure 31

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

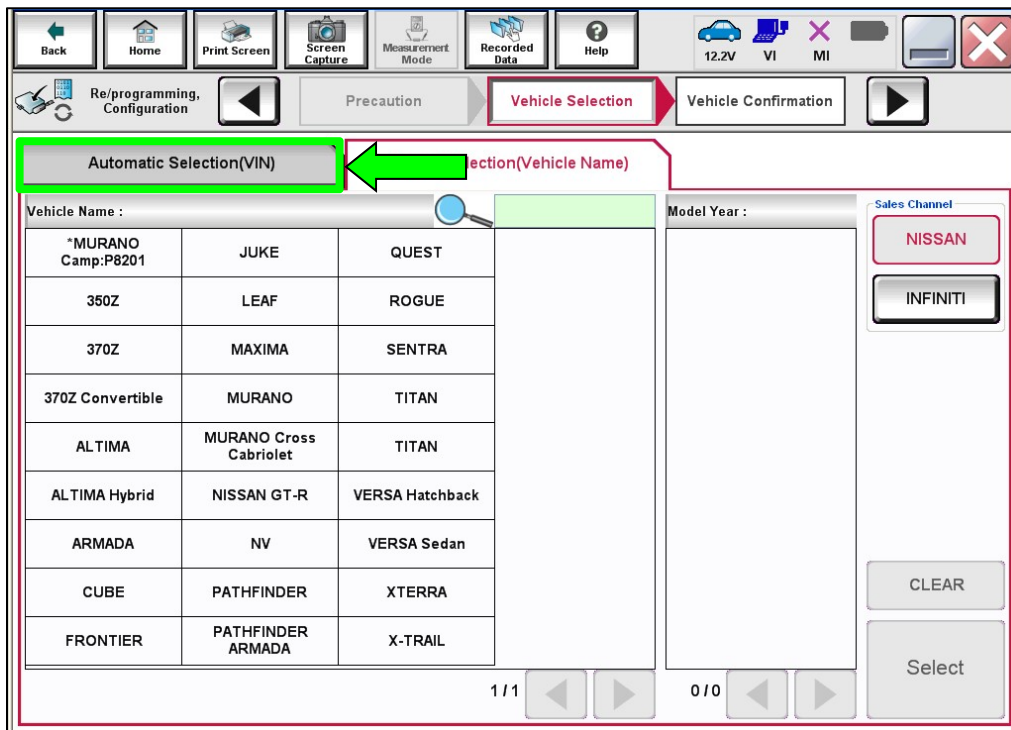


Figure 32

35. Allow the CONSULT to perform automatic VIN selection.

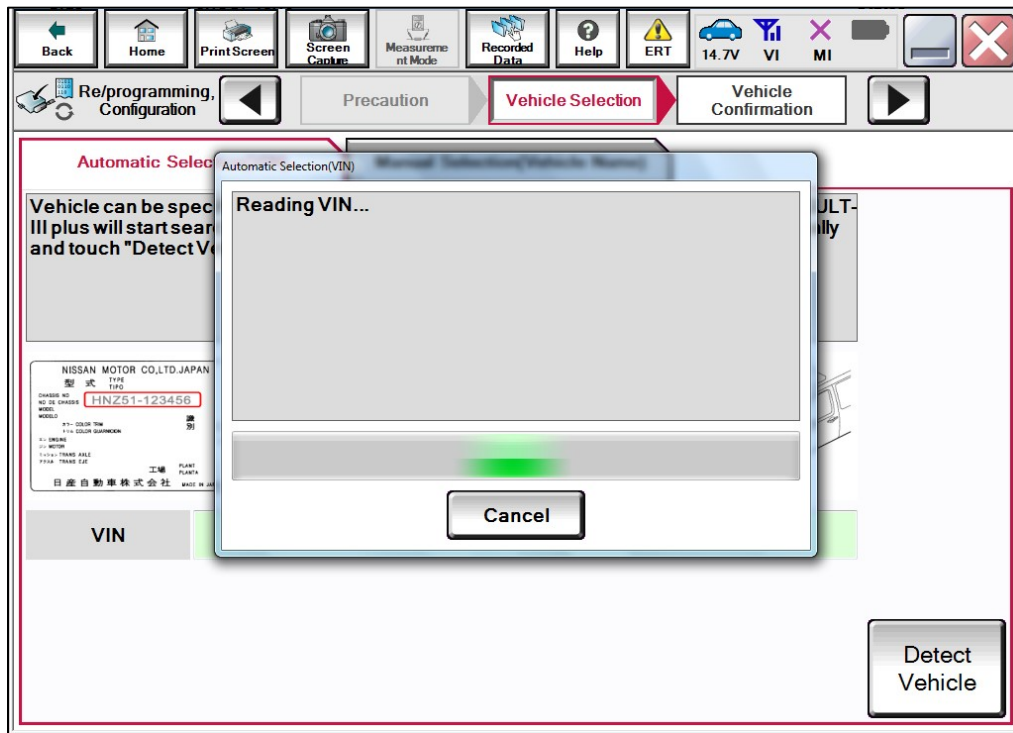


Figure 33

36. Confirm the **VIN or Chassis #** is correct, and then select **Confirm**.

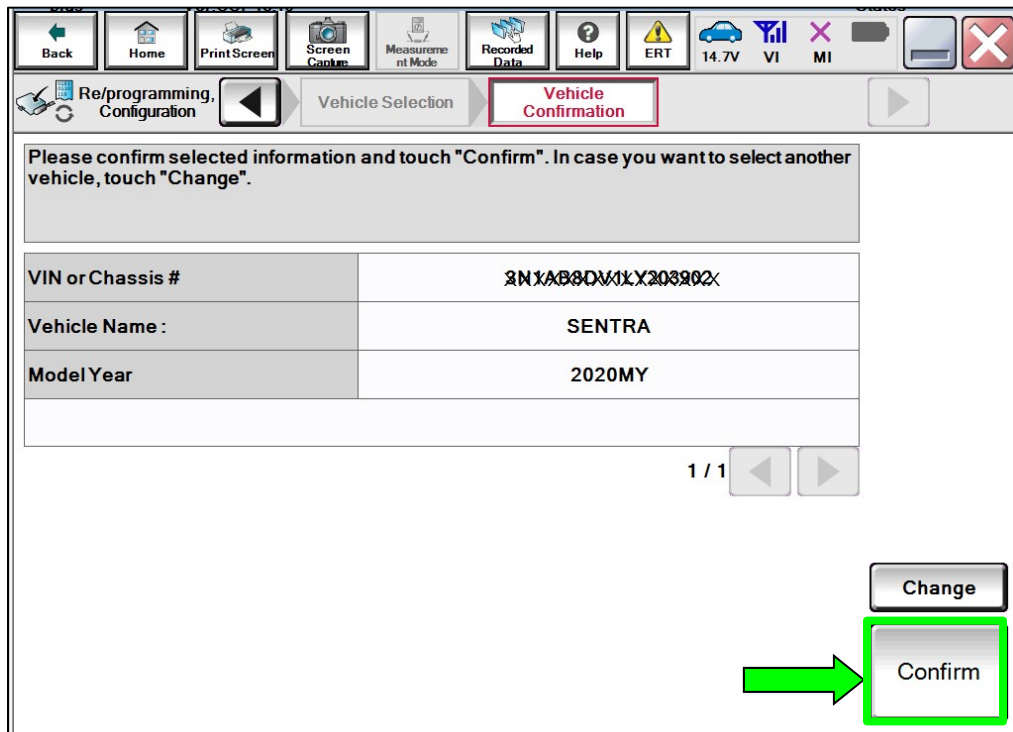


Figure 34

37. Select **ERASE**.

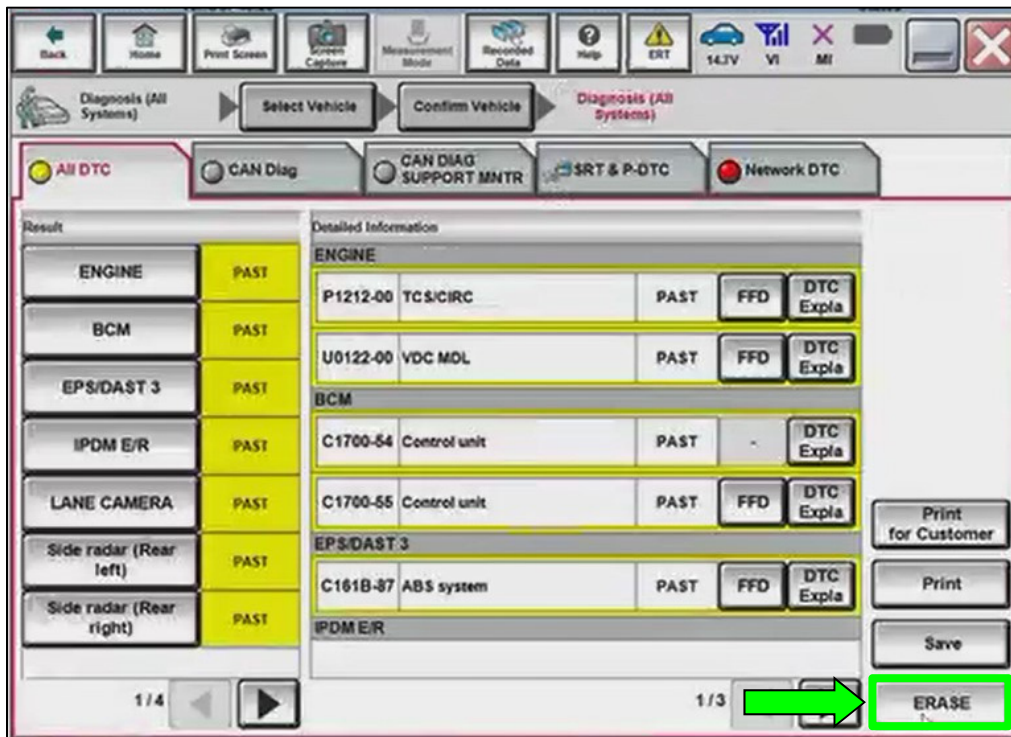


Figure 35

38. Select **Execute**.

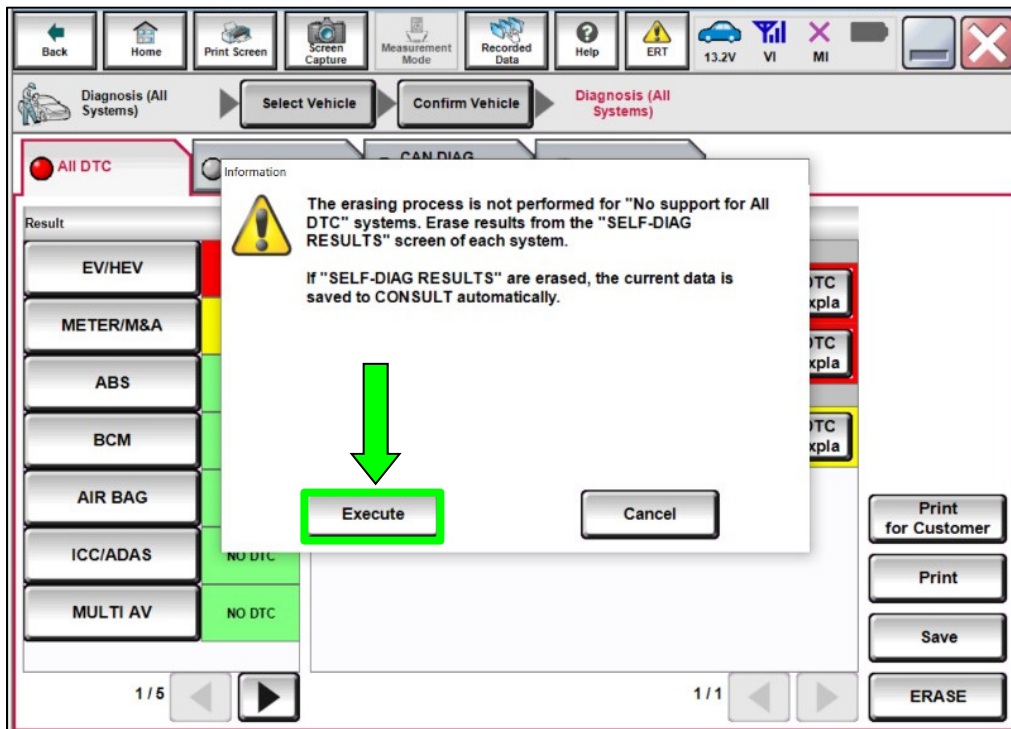


Figure 36

39. Select **Close**.

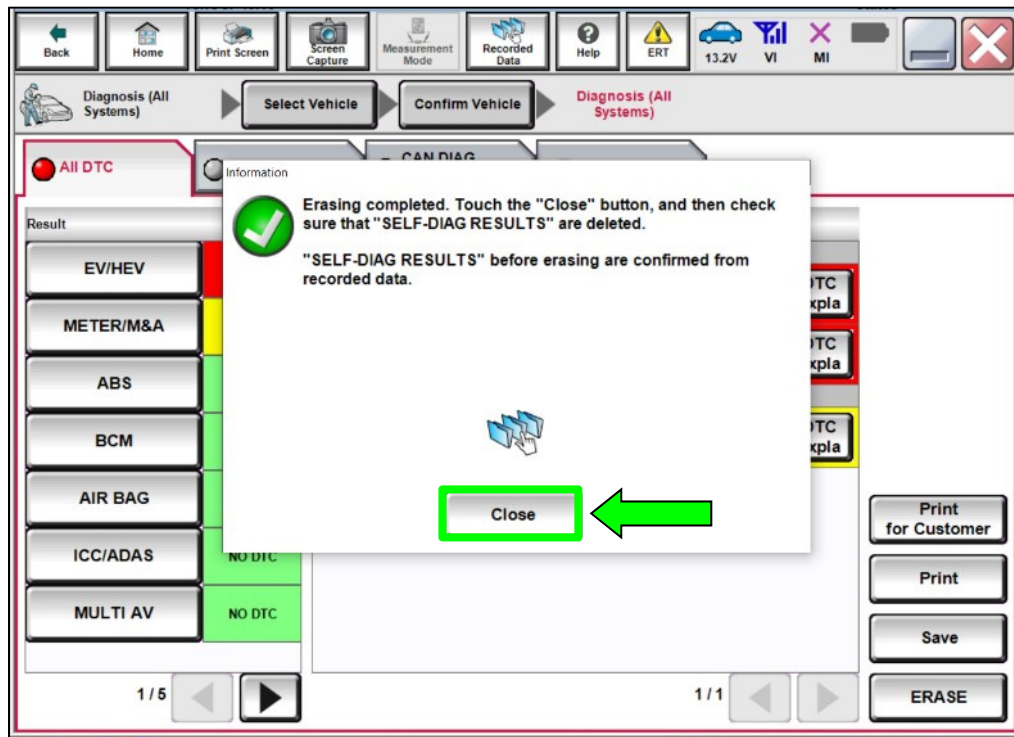


Figure 37

40. Close the C-III plus application.

41. Remove the VI from the vehicle.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Perform Part Number Check	(1)	RX9XAA	ZE	32	0.3 hr

- (1) Reference the electronic parts catalog and use the Body Control Module (284B1-*****) as the Primary Failed Part (PFP).

OR

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	RX9WAA	ZE	32	0.7 hr

- (1) Reference the electronic parts catalog and use the Body Control Module (284B1-*****) as the Primary Failed Part (PFP).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
May 18, 2021	NTB21-031	Original bulletin published