

TECHNICAL SERVICE BULLETIN

Classification: EM22-002A	Reference: ITB22-025A	Date: September 15, 2022
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ROARING NOISE FROM THE ENGINE COOLING FAN ASSEMBLY AND THE A/C IS NOT COOLING

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

APPLIED VEHICLES: 2019-2021 QX50 (J55)

2022 QX55 (FJ55)

APPLIED DATES: 2019-2020 QX50 – All

2021 QX50 – Built on or before February 15, 2022

2022 QX55 – Built on or before February 15, 2022

IF YOU CONFIRM

A roaring noise from the engine cooling fan assembly (engine fan on high not cycling) is present, and the air conditioning (A/C) is not cooling.

ACTION

1. Check the Denso part number on the engine cooling fan assembly.
2. Replace the engine cooling fan assembly and IPDM E/R, if applicable.

NOTE: The IPDM E/R will need to be configured if replaced.

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.

Infiniti 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 Infiniti retailer to determine if this applies to your vehicle.

SERVICE PROCEDURE

1. Inspect the Denso part number on the label of the engine cooling fan assembly that is currently in the vehicle (Figure 1).
 - If the current Denso part number is in **Table A**, this bulletin does not apply. Refer to the ESM for further diagnostic information.
 - If the current Denso part number is not in **Table A**, proceed to step 2.
2. After ordering the new engine cooling fan assembly, confirm that the Denso part number on the new part is in **Table A** before installing (Figure 1).
 - If the new Denso part number is in **Table A**, proceed to step 3 on page 3.
 - If the new Denso part number is not in **Table A**, reorder another new engine cooling fan assembly and confirm that the Denso part number is in **Table A** before proceeding to step 3 on page 3.

Table A

New Denso Part Numbers
AA222750-0753
AA222750-0763
AA222750-0773

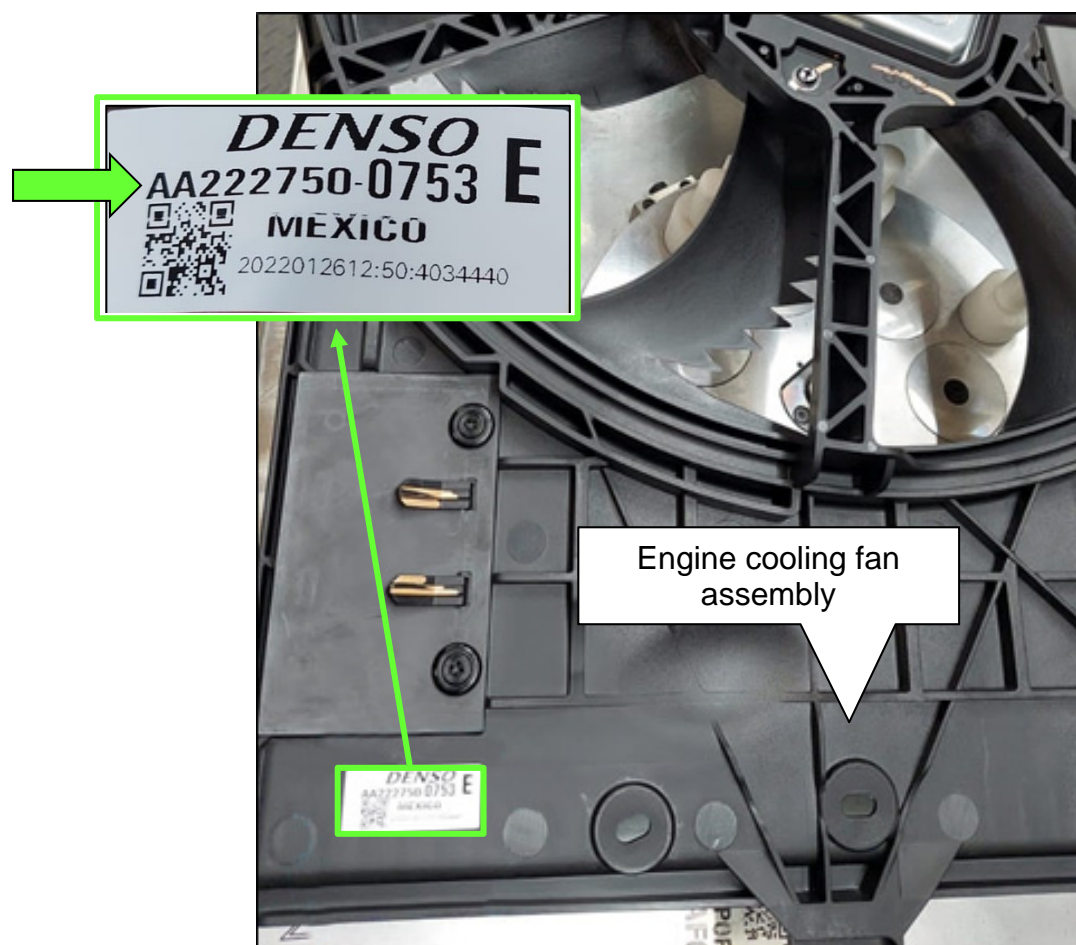


Figure 1

3. Replace the engine cooling fan assembly.
 - Refer to the ESM: **ENGINE > ENGINE COOLING SYSTEM > KR20DDET > REMOVAL AND INSTALLATION > COOLING FAN**
4. Replace the IPDM E/R with one listed in the **PARTS INFORMATION**.
 - Refer to the ESM: **ELECTRICAL & POWER CONTROL > POWER CONTROL SYSTEM > IPDM E/R > REMOVAL AND INSTALLATION > IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)**

IPDM E/R Configuration

IMPORTANT: Before starting, make sure:

- ASIST on the **CONSULT PC** has been synchronized (updated) to the current date.
 - All CONSULT-III software updates (if any) have been installed.
5. Connect the Vehicle Interface (VI) to the vehicle.
 6. Turn the ignition ON with the engine OFF.
 7. Start CONSULT-III on the CONSULT PC.
 - The serial number will display when the VI is recognized.
 8. Select **Re/programming, Configuration**.

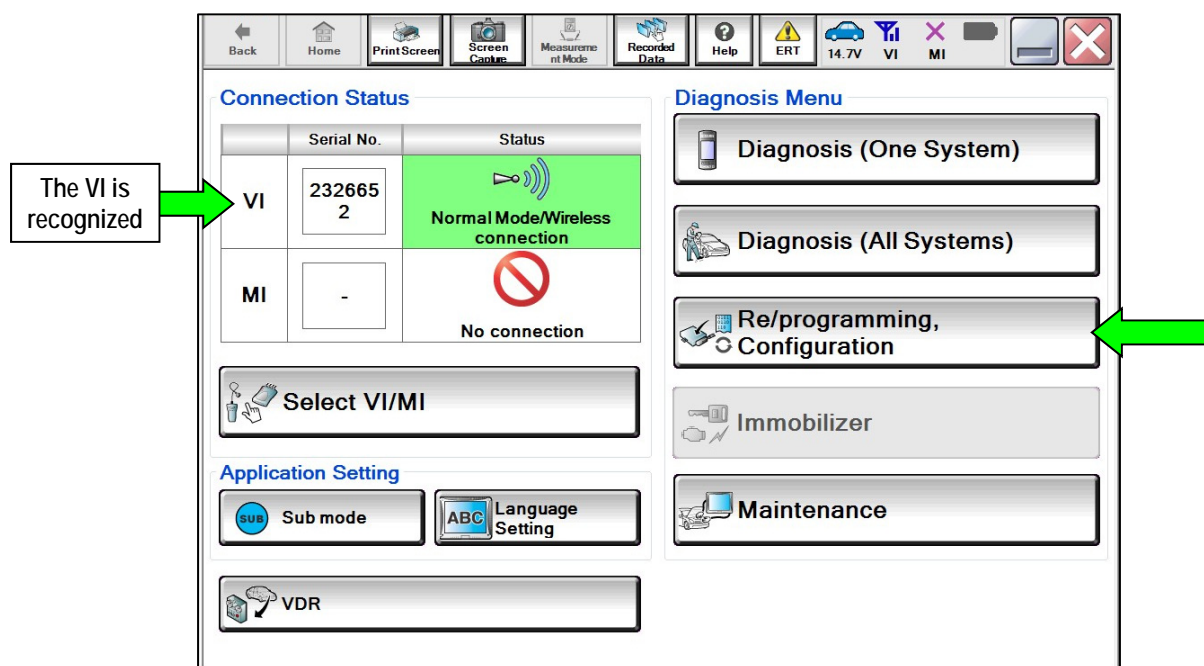


Figure 2

9. Use the arrows (if needed) to view and read all precautions.
10. Check the box confirming the precautions have been read, and then select **Next**.

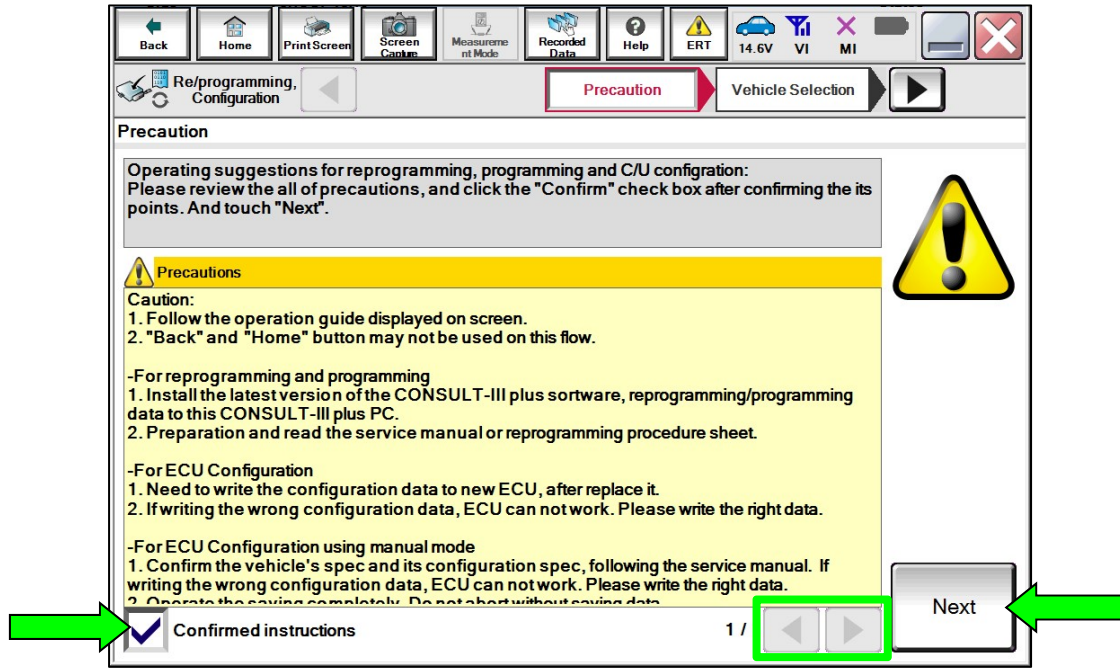


Figure 3

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

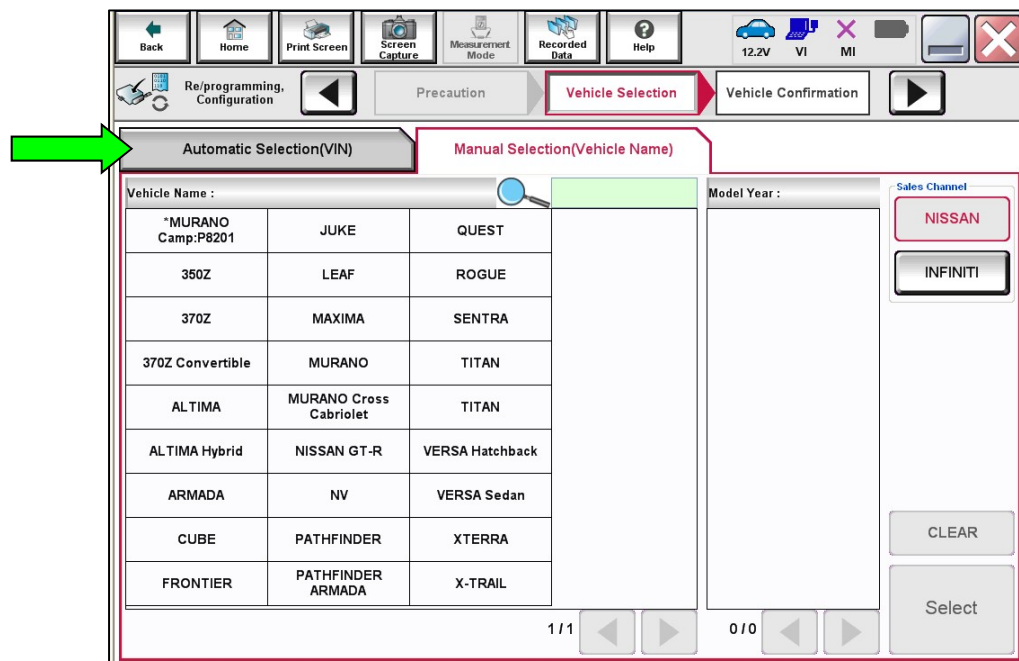


Figure 4

12. Allow the CONSULT to perform automatic VIN selection.

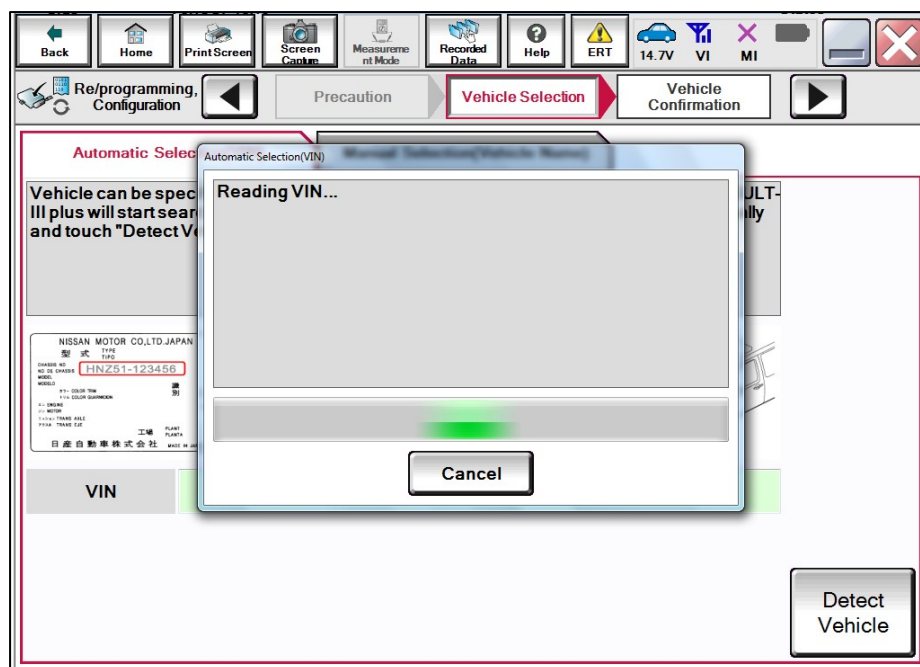


Figure 5

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

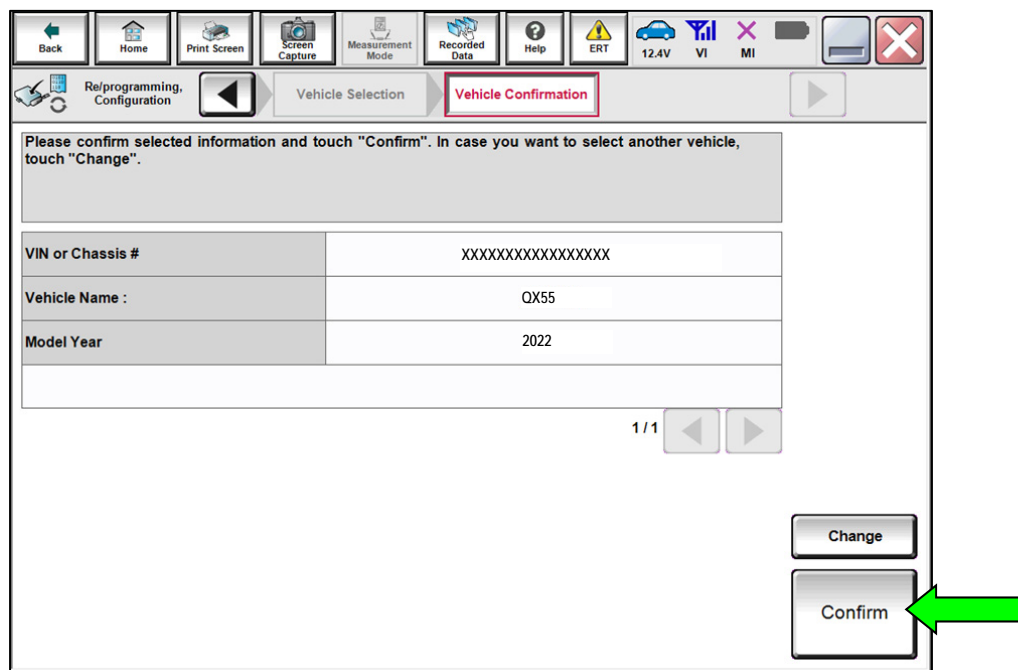


Figure 6

14. Allow the **System call** to complete.

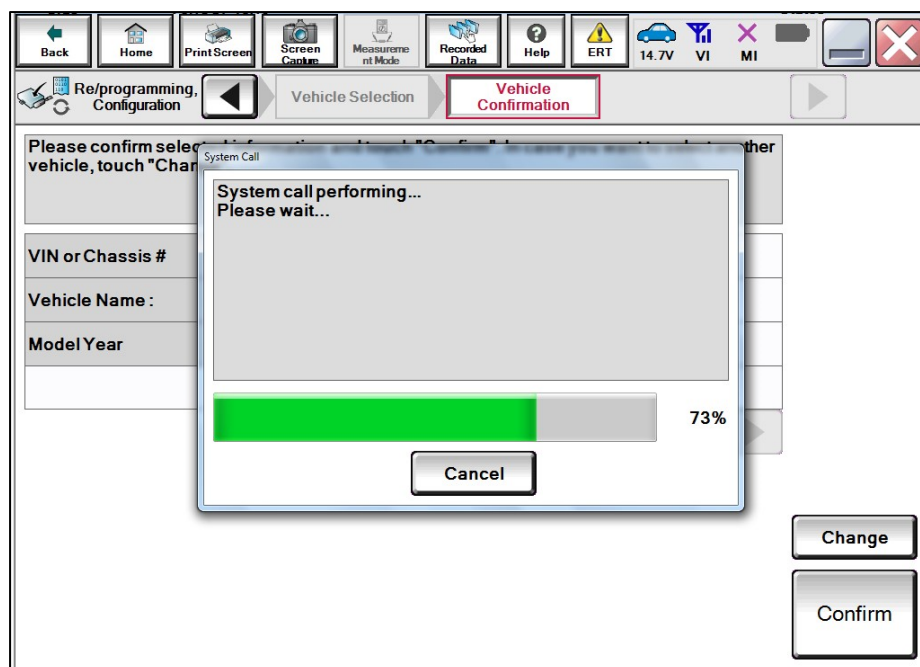


Figure 7

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

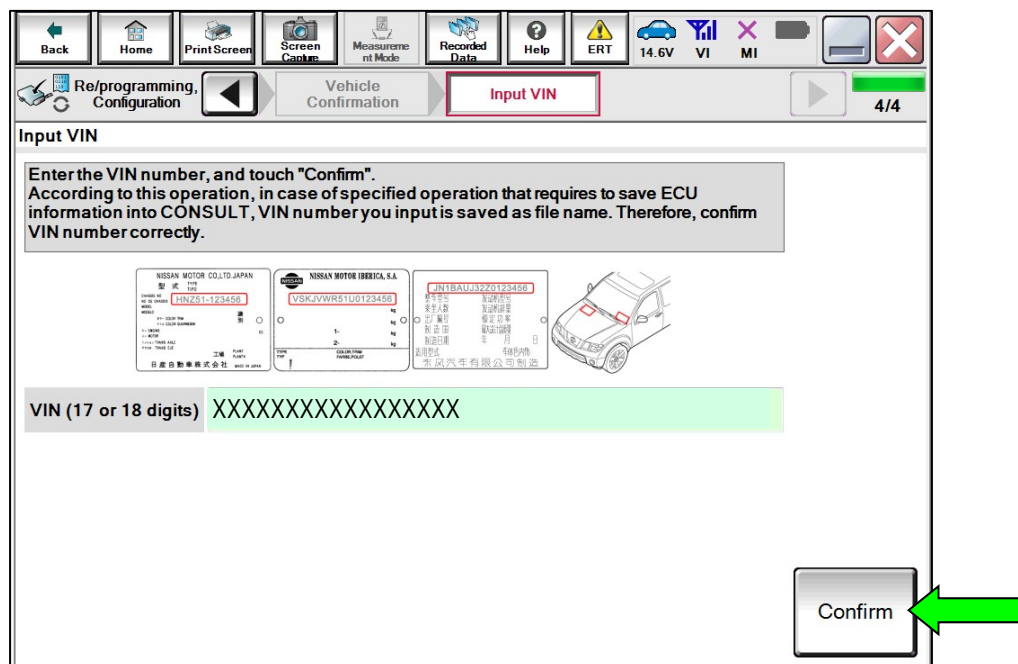


Figure 8

16. Select **IPDM E/R**.

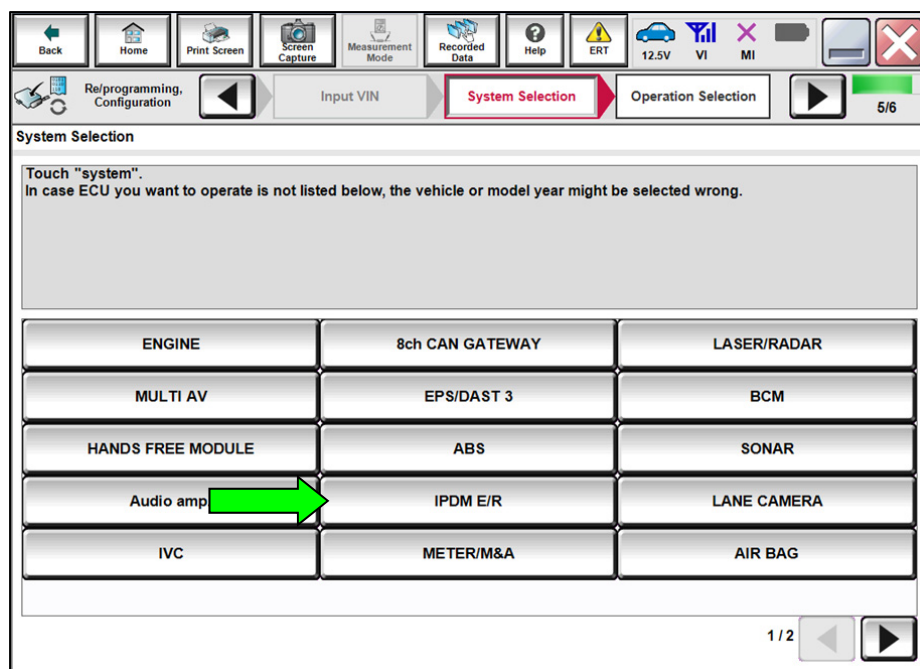


Figure 9

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

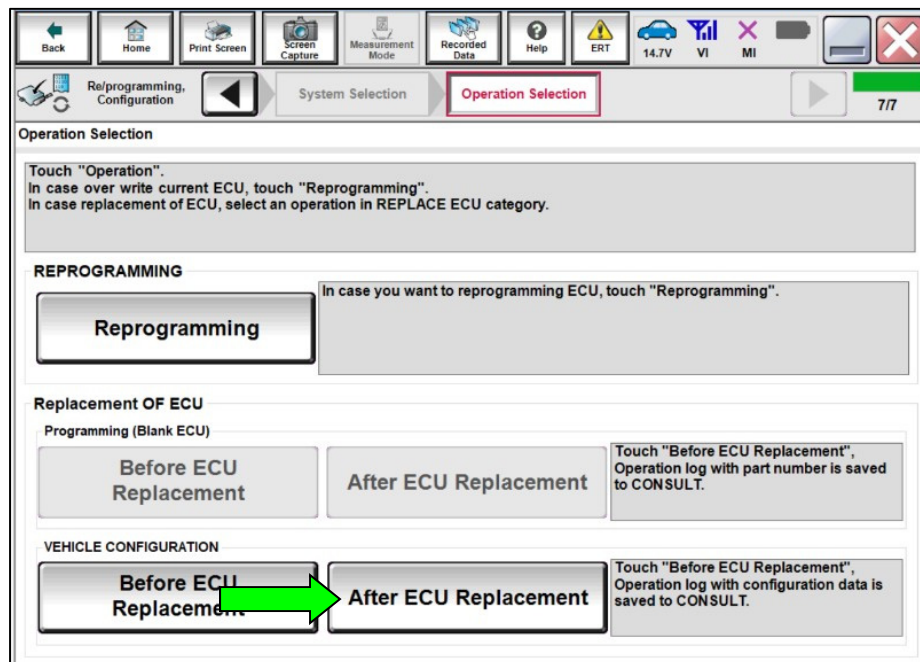


Figure 10

18. Select **Manual selection**.

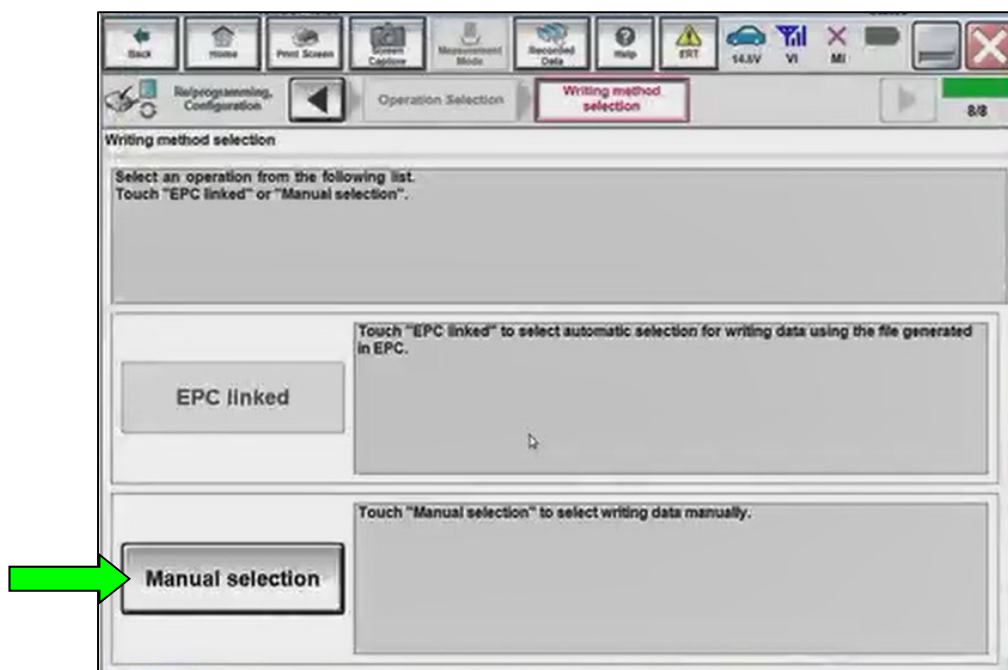


Figure 11

19. Select the applicable **Type ID**, and then select **Next**.

- QX55 – "284M1-5VG1A"
- QX50 – "284M1-9CM2A"

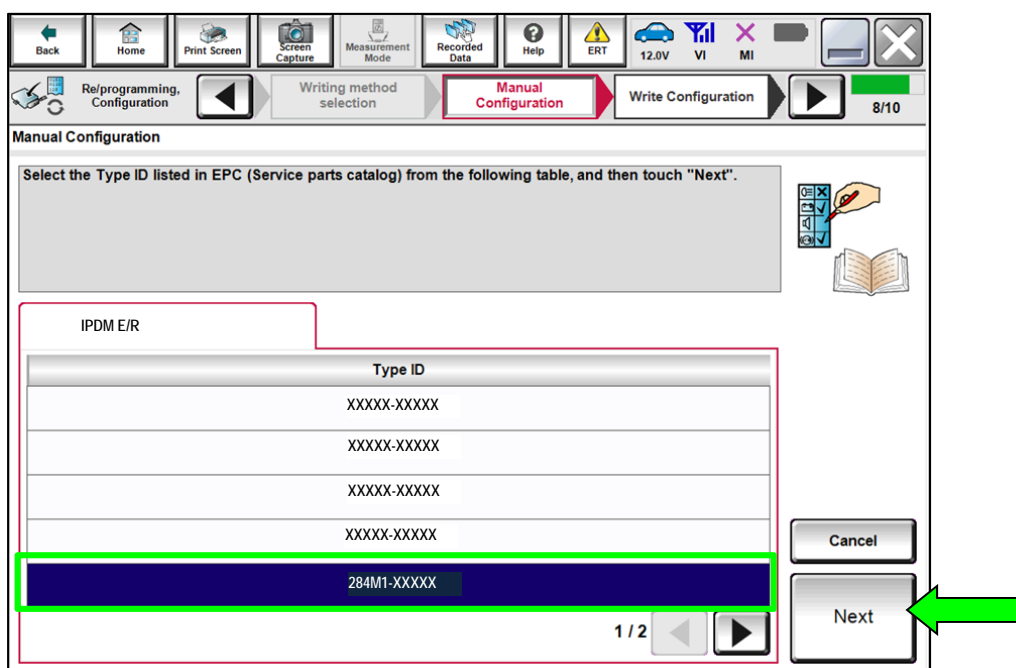


Figure 12

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

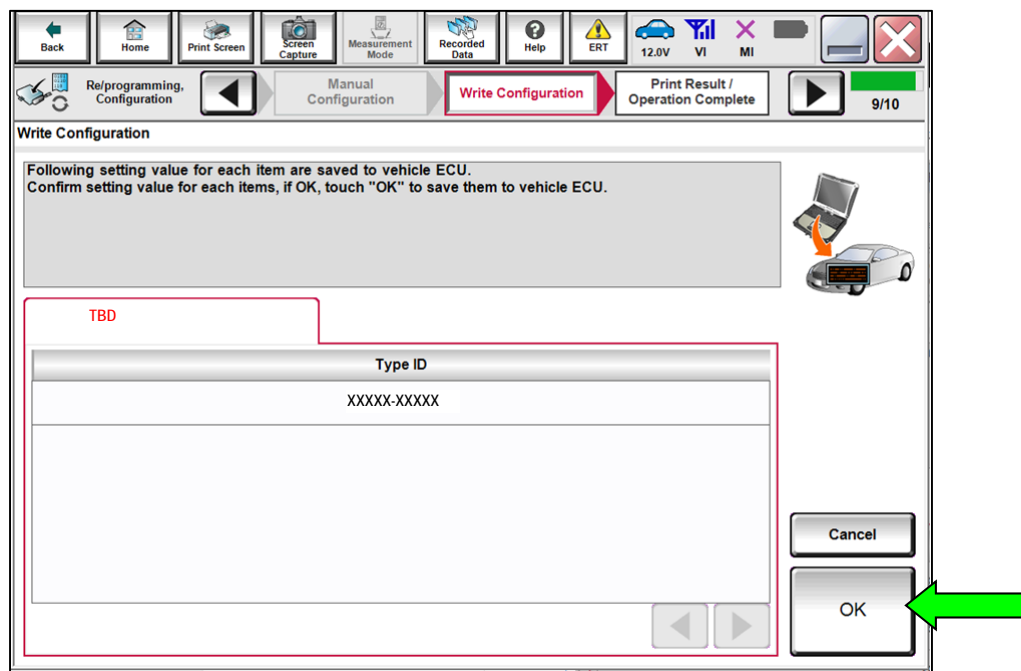


Figure 13

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

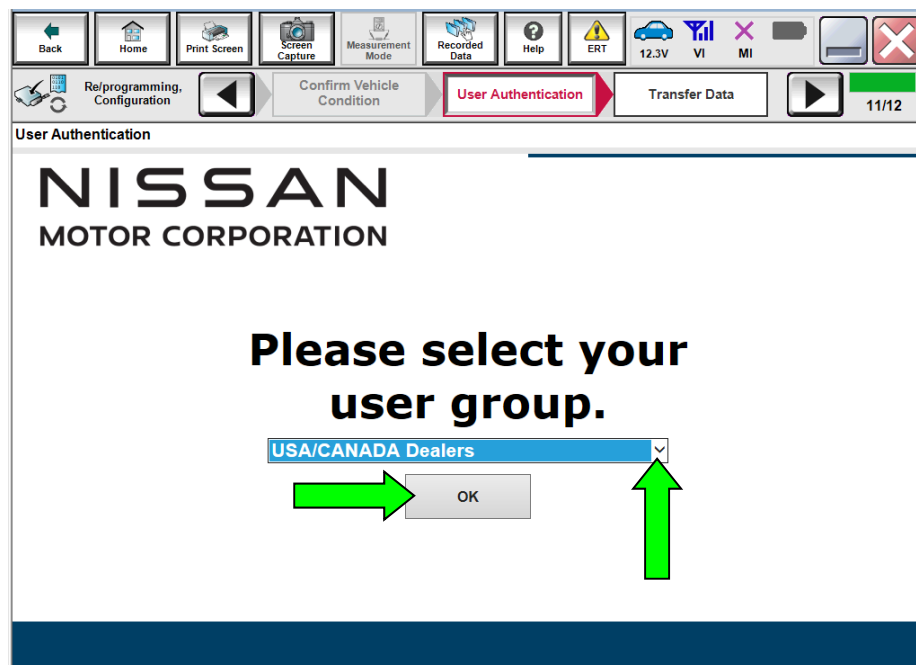
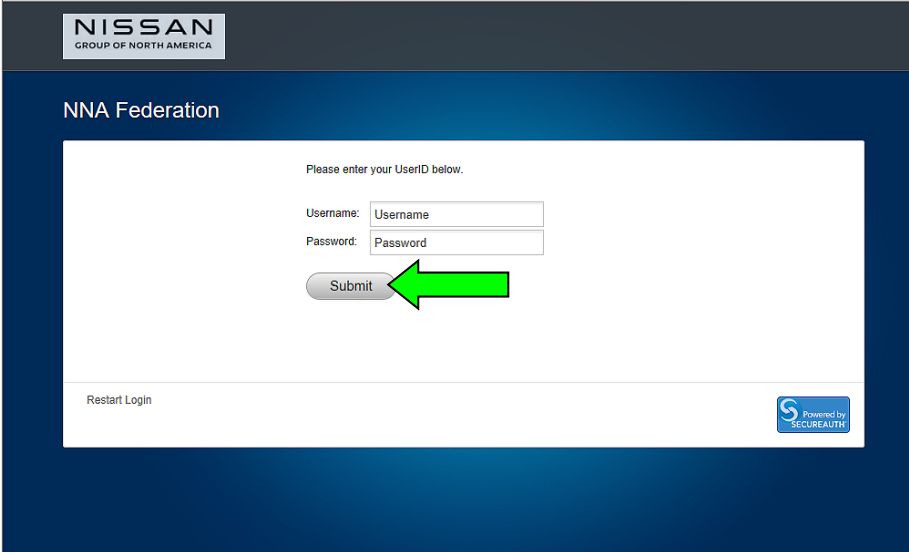


Figure 14

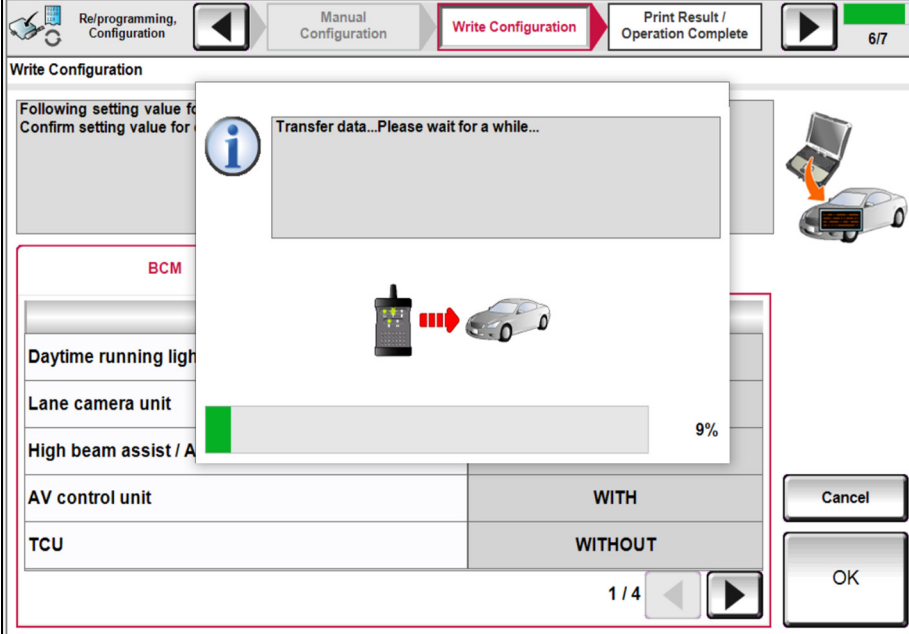
22. Login using your NNAnet credentials.



The image shows a web-based login interface for the NNA Federation. At the top, there is a Nissan Group of North America logo. Below it, the text "NNA Federation" is displayed. The main area contains a login form with the instruction "Please enter your UserID below." The form has two input fields: "Username:" and "Password:". Below these fields is a "Submit" button, which is highlighted with a green arrow. At the bottom left of the form, there is a link for "Restart Login". At the bottom right, there is a logo for "Powered by SECUREAUTH".

Figure 15

23. Allow the **Write Configuration** to complete.



The image shows a software interface for writing configuration to a vehicle. The top navigation bar includes buttons for "Re/programming, Configuration", "Manual Configuration", "Write Configuration" (which is highlighted with a red box), and "Print Result / Operation Complete". Below the navigation bar, the "Write Configuration" section is active. It displays a progress bar for the "BCM" (Body Control Module) configuration. The progress bar is currently at 9%. Below the progress bar, there is a table with two columns: "Configuration" and "Status". The table lists the following items:

Configuration	Status
Daytime running light	WITH
Lane camera unit	WITH
High beam assist / A	WITH
AV control unit	WITH
TCU	WITHOUT

At the bottom of the table, there is a "1 / 4" indicator and navigation arrows. To the right of the table, there are "Cancel" and "OK" buttons. A modal dialog box is open in the center of the screen, displaying the message "Transfer data...Please wait for a while..." and an icon of a car with a signal tower.

Figure 16

24. Confirm that the **Type ID** is now “284M1-9CM2A”.

25. Select **End**.

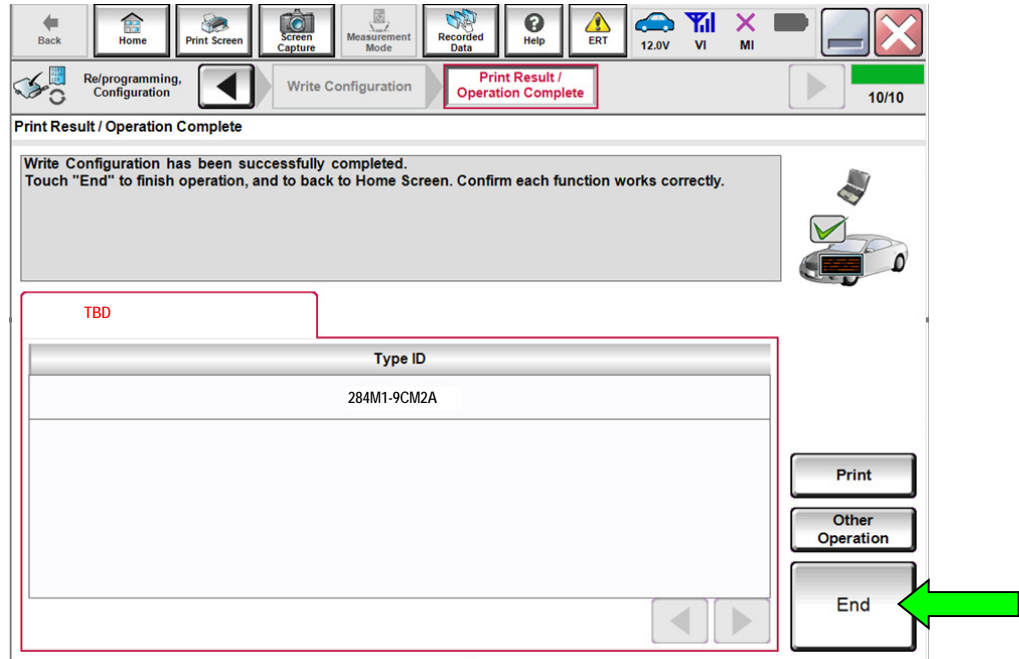


Figure 17

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
Motor & Fan Assy – W/Shroud (Engine cooling fan assembly)	(1)	1 As needed
IPDM E/R	284B7-5NA0E	1 As needed

(1) Refer to the EPC and look up the part number by VIN.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace the Engine Cooling Fan Assembly	(1)	CC20AA	ZL	32	(2)
Replace and Configure the IPDM E/R		RD21AA			

- (1) Reference the electronic parts catalog and use the Motor & Fan Assy w/Shroud (21481-*****) as the Primary Failed Part (PFP).
- (2) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated Flat Rate Time (FRT).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
June 10, 2022	ITB22-025	Original bulletin published
September 15, 2022	ITB22-025A	Configuration steps added

