

TECHNICAL SERVICE BULLETIN

Classification: EM22-002B

ITB22-025B

November 2, 2023

Date:

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:	2019-2022 QX50 (J55) 2022 QX55 (FJ55)
APPLIED DATES:	2019-2021 QX50 – All 2022 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.
- Replace the engine cooling fan assembly and IPDM E/R, if applicable.
 HINT: 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 <u>is not</u> in **Table A**, reorder another new engine cooling fan assembly and confirm that the Denso part number <u>is</u> 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. Confirm that the CONSULT PC is connected to Wi-Fi.
- 6. Connect the Vehicle Interface (VI) to the vehicle.
- 7. Turn the ignition ON with the engine OFF.
- 8. Start CONSULT-III on the CONSULT PC.
 - The serial number will display when the VI is recognized (Figure 2 on page 4).
- 9. If prompted, select **USA/CANADA Dealers** from the drop down menu, and then select **OK.**
- 10. Log in 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.

11. Select Re/programming, Configuration.

	Serial No.	Status	Diagnosis (One System)
is ced	/I 232665 2	Normal Mode/Wireless	Diagnosis (All Systems)
N	11 _	No connection	Re/programming,
8-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	Select VI/N	41	Immobilizer
	Sub mode	Language Setting	Maintenance
	D		

Figure 2

- 12. Use the arrows (if needed) to view and read all precautions.
- 13. Check the box confirming the precautions have been read, and then select Next.



Figure 3

Record 🚓 🍠 🗶 🗩 , in () Help Home Back Print Scree Screen Mod 12.2V VI E 30 Re/programming, Configuration ◀ Precaution Vehicle Selection Vehicle Confirmation Manual Selection(Vehicle Name) Automatic Selection(VIN) Salès Channel Vehicle Name Model Year : NISSAN *MURANO Camp:P8201 JUKE QUEST 350Z INFINITI LEAF ROGUE 370Z MAXIMA SENTRA 370Z Convertible MURANO TITAN MURANO Cross Cabriolet ALTIMA TITAN ALTIMA Hybrid NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CLEAR CUBE PATHFINDER XTERRA PATHFINDER ARMADA FRONTIER X-TRAIL Select 1/1 010 -4 -1 5

14. Select Automatic Selection(VIN).

Figure 4

15. Allow the CONSULT to perform automatic VIN selection.



Figure 5

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

ase confirm selected information and the sele	touch "Confirm". In case you want to select another vehicle,	
IN or Chassis #	*****	
Vehicle Name :	QX55	
Model Year	2022	
	1/1	
		Change
		Confirm

Figure 6

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

Back Home P	VintScreen Screen Abde Vinds V	-
Configuration	Vehicle Selection Vehicle Confirmation	
Please confirm sele vehicle, touch "Cha	System Call	
	System call performing Please wait	
VIN or Chassis #		-
Vehicle Name : Model Year		-
	73%	Ì
	Cancel	
		Change
		Confirm

Figure 7

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

Back	Home Pr Programming,	int Screen	Keasureme nt Mode	Recorded Data	Help	ERT 14		MI		\mathbf{X}
nput VIN	oniguation		Gommadon						4	-/4
Enter the According informatic VIN numb	VIN numbe g to this ope on into CON per correctly	r, and touc eration, in c ISULT, VIN 7.	h "Confirm". ase of specified I number you inp	operation out is save	that requir d as file na	es to save ame. The	e ECU refore, co	nfirm		
	HISSAN MOT	CR COLTO JAPAN 51-123455 第一〇 二 工業 74世 (2015) 第二章 発生 (2015) 第二章 発生 (2015)	NISSAN MOTOR IBERICA, S.A. VSKJVWR51U0123456) N 1- N 2- N M 1- N N 1- N N 1- N 1- N 1- N N 1- N N N 1- N N N N N N N N N N N N N N	UNTBAUJ32200 支行55 気能 支生気 気能 動造車 動造 制造車 動造 制造車 動量 加速計 年 添加気 二 年 有 限 2	123456		Ĩ			
VIN (17 a	or 18 digits)	XXXXX	xxxxxxxx	XXX						
									Confirm	

Figure 8

19. Select IPDM E/R.

tem Selection		5
uch "system". case ECU you want to operate is not liste	d below, the vehicle or model year might be	e selected wrong.
ENGINE	8ch CAN GATEWAY	LASER/RADAR
MULTI AV	EPS/DAST 3	BCM
	· · · · · · · · · · · · · · · · · · ·	
HANDS FREE MODULE	ABS	SONAR
HANDS FREE MODULE	ABS	SONAR

Figure 9

20. Select After ECU Replacement under VEHICLE CONFIGURATION.

Back Home Print Screen Scree	en Messurement Mode Recorded Help	RT 14.7V VI MI
Re/programming, Configuration	ystem Selection Operation Selection	7/7
peration Selection		
Touch "Operation". n case over write current ECU, touch " n case replacement of ECU, select an op	Reprogramming". eration in REPLACE ECU category.	
REPROGRAMMING	In case you want to reprogramming ECU	. touch "Reprogramming".
Reprogramming		,
	J	
Replacement OF ECU		
Replacement OF ECU Programming (Blank ECU)	J	Touch "Before SCII Benjacement"
Replacement OF ECU Programming (Blank ECU) Before ECU Replacement	After ECU eplacement	Touch "Before ECU Replacement", Operation log with part number is saved to CONSULT.
Replacement OF ECU Programming (Blank ECU) Before ECU Replacement VEHICLE CONFIGURATION	After ECU eplacement	Touch "Before ECU Replacement", Operation log with part number is saved to CONSULT.

Figure 10

21. Select Manual selection.

1	
Select an operation from the Touch "EPC linked" or "Manu	following list al selection".
	Touch "EPC linked" to select automatic selection for writing data using the file get
	in EPC.
EPC linked	
	M
-	Weinsch Mittagenal antipation 7 to antipation black meansured at
	Fourity manual selection to select writing cats manually.

Figure 11

- 22. Select the applicable **Type ID**, and then select **Next**.
 - QX55 "284M1-5VG1A"
 - QX50 "284M1-9CM2A"

	selection	Manual Configuration	Write Configuration	8/10
Configuration	F			
e Type ID listed in EPC (Serv	rice parts catalog) from t	the following table, and	then touch "Next".	And Growth 1
				TEE)
IPDM E/R	1			
	Type ID			
	~~~~~			
	XXXXX-XXXXX			
	XXXXX-XXXXX			
	xxxxx-xxxxx xxxxx-xxxxx			
	xxxxx-xxxxx xxxxx-xxxxx xxxxx-xxxxx			Cancel
	XXXXX-XXXXX XXXXX-XXXXX XXXXX-XXXXX XXXXX-XXXXX 284M1-XXXXX			Cancel
	XXXXXX-XXXXX XXXXX-XXXXX XXXXX-XXXXX XXXXX-XXXXX 284M1-XXXXX			Cancel

Figure 12

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

e Back	Home Print Screen	Screen Capture	Recorded Data	A 12.0V VI MI	
Re/pr	rogramming, nfiguration	Manual Configuration	Write Configuration	Print Result / Operation Complete	9/10
te Configur	ration				
ollowing se onfirm setti	tting value for each i ng value for each iter	item are saved to vehi ns, if OK, touch "OK" t	cle ECU. o save them to vehicle EC	:υ.	
_	IPDIVI E/R		x-17		7
_		Туре	ID		-
		XXXXX-XX	XXX		-
				4	Cancel OK

Figure 13

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

ollowing setting value for	Please wait for a while	
BCM Daytime running ligh		
Lane camera unit High beam assist / A	9%	
	14/1771	Cancel
AV control unit	WITH	and the second sec

Figure 14

- 25. Confirm that the **Type ID** is now "284M1-9CM2A".
- 26. Select End.

e/programming,	/rite Configuration Print Result / Operation Complete	10/10
/ Operation Complete		
figuration has been success	fully completed	
id" to finish operation, and to	back to Home Screen, Confirm each function works	s correctly.
IPDM E/R		
	Туре ID	
	284M1-9CM2A	
		Print
		- Princ
		Other Operation

Figure 15

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

- (1) Reference the EPC 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
November 2, 2023 ITB22-025B		<b>APPLIED VEHICLES</b> and <b>APPLIED DATES</b> revised, login steps moved to page 3, and "NOTE" references changed to "HINT"