

TECHNICAL SERVICE BULLETIN

Classification:

HA21-004A

NISSAN

Reference:

Date: June 13, 2023

A/C INOPERATIVE WITH DTC B20C8-14 STORED IN THE IPDM E/R

NTB21-072A

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

APPLIED VEHICLES:	2022 Pathfinder (R53) 2021-2022 Rogue (T33) – PR25DD engine only
APPLIED DATES:	2022 Pathfinder – Built on or before March 24, 2022 2021 Roque – All
	2022 Rogue:
	11 th character of VIN is W – Built on or before June 6, 2022
	11 th character of VIN is C – Built on or before March 24, 2022

IF YOU CONFIRM

The A/C compressor is not engaging when the A/C is in the ON position, as indicated by the yellow illumination on the A/C button,

AND

DTC B20C8-14 ECV (ELECTRICAL CONTROL VALVE) is stored in the IPDM E/R.

ACTION

- 1. Replace the IPDM E/R.
- 2. Follow the **SERVICE PROCEDURE** to configure the IPDM E/R.

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

Replace the IPDM E/R

- 1. Replace the IPDM E/R.
 - Refer to the ESM: ELECTRICAL & POWER CONTROL > POWER CONTROL SYSTEM > IPDM E/R > REMOVAL AND INSTALLATION > IPDM E/R
- 2. Proceed to **Configure the IPDM E/R**, below.

Configure the IPDM E/R

IMPORTANT: Before starting, make sure all C-III plus software updates (if any) have been installed.

- 3. Confirm that the CONSULT PC is connected to Wi-Fi.
- 4. Turn ON the ignition.
- 5. Connect the VI to the vehicle.
- 6. Start C-III plus.
- 7. If prompted, select **USA/CANADA Dealers** from the drop down menu, and then select **OK.**
- 8. 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.

- 9. Wait for the VI to be recognized.
 - The serial number will display when the VI is recognized (Figure 1 on page 3).

10. Select Re/programming, Configuration.

	Back Home Print	Screen Screen nt Mode	Coorded Help ERT 14.7V VI MI
	Connection Statu	s	Diagnosis Menu
	Serial No.	Status	Diagnosis (One System)
The VI is recognized	VI 232665 2	►>>))) Normal Mode/Wireless connection	Diagnosis (All Systems)
	MI -	No connection	Re/programming,
	Select VI/	мі	
	Application Setting	Language Setting	Maintenance
	VDR		

Figure 1

11. 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 of the precautions.

recaution								
Operating Please rep	suggestions fo	or reprogramming recautions, and c	, programming ick the "Confirm	and C/U configratio	on: onfirming	the its poir	nts. And	
touch "Ne	xt".	recudions, and c	lek the commi		omming	and no poin	1.5. 7.114	
Caution:								
1. Follow	the energies a	sectors allowed as and as						
2. "Back"	and "Home" b	outton may not be	used on this flo	ow.				
2. "Back"	and "Home" b	putton may not be	used on this flo	ow.				
2. "Back" -For repro	and "Home" b ogramming and he latest versio	uide displayed of outton may not be I programming n of the CONSUL	n screen. used on this flo F-III plus sortwa	ow. re, reprogramming/p	orogrammi	ing data to	this	
2. "Back" -For repro 1. Install t CONSUL 2. Prepara	ogramming and be latest versio F-III plus PC. ation and read to	uide displayed o outton may not be I programming n of the CONSUL the service manu	n screen. used on this flo I-III plus sortwar al or reprogrami	ow. re, reprogramming/p ming procedure she	orogrammi eet.	ing data to	this	
2. "Back" -For repro 1. Install t CONSUL 2. Prepara -For ECU	and "Home" b ogramming and he latest versio f-lll plus PC. ation and read to Configuration	unde displayed o putton may not be I programming n of the CONSUL the service manu-	n screen. used on this flo I-III plus sortwar al or reprogrami	w. re, reprogramming/p ming procedure she	orogrammi eet.	ing data to	this	
2. "Back" -For representation 1. Install to CONSULT 2. Prepara -For ECU 1. Need to 2. If writing	and "Home" b ogramming and he latest versio f-III plus PC. ttion and read to Configuration o write the configuration	uide displayed o putton may not be I programming n of the CONSUL the service manu- figuration data to	n screen. used on this flo I-III plus sortwar al or reprogram new ECU, after ECU, can not we	ow. re, reprogramming/p ming procedure she replace it. ork. Please write the	orogrammi eet. a right dat	ing data to a	this	
2. "Back" -For repro 1. Install t CONSULT 2. Prepara -For ECU 1. Need to 2. If writin	and "Home" b ogramming and he latest versio -Ill plus PC. ttion and read Configuration o write the conf g the wrong co	I programming I programming n of the CONSUL the service manu- figuration data to	n screen. used on this flo I-III plus sortwar al or reprogram new ECU, after ECU can not wo	ow. re, reprogramming/p ming procedure she replace it. ork. Please write the	orogrammi eet. e right dat	ing data to a.	this	
2. "Back" -For reproduction 1. Install the CONSULT 2. Prepara -For ECU 1. Need the 2. If writin -For ECU 1. Confirm	and "Home" b ogramming and he latest version -III plus PC. ation and read to Configuration o write the config g the wrong co Configuration on the vehicle's s	Jude displayed of soutton may not be I programming n of the CONSUL the service manu- figuration data to onfiguration data, using manual mo spec and its config	T-III plus sortwar I or reprogram new ECU, after ECU can not wo de upration spec, fo	ww. re, reprogramming/p ming procedure she replace it. ork. Please write the pllowing the service i	programmi bet. e right dat manual. I	ing data to a. If writing th	this e wrong	
2. "Back" -For reproduced 1. Install the CONSULT 2. Prepara -For ECU 1. Need to 2. If writing -For ECU 1. Confirm configura 2. Operate	and "Home" b ogramming and he latest versio -III plus PC. tition and read to Configuration or write the config the wrong cc Configuration of the vehicle's s tion data, ECU	Jude displayed of soutton may not be I programming n of the CONSUL the service manu- figuration data to onfiguration data, using manual mo spec and its config can not work. Ple publete/. Do not at	T-III plus sortwar al or reprogram new ECU, after ECU can not wo de juration spec, fo ase write the rig ort without savi	ww. re, reprogramming/p ming procedure she replace it. ork. Please write the plowing the service i pht data. or data.	programmi bet. 9 right dat manual. 1	ing data to a. If writing th	this e wrong	

Figure 2

- 12. Select the correct Vehicle Name and Model Year.
- 13. Select Select.

Refprogramming, Configuration Precaution Vehicle Selection Vehicle Confirmation Automatic Selection(VIN) Manual Selection(Vehicle Name) /ehicle Name: Model Year: Sales Chamel 'MURANO Camp:P8201 JUKE QUEST NiSSAN 3502 JUKE QUEST NISSAN 3502 JUKE QUEST NISSAN 3702 Example NISSAN NISSAN ALTIMA Cabriolet Model CLEAR ALTIMA NV VERSA Hatchback CLEAR GuBe PATHFINDER X.TERRA CLEAR FRONTIER PATHFINDER X.TRAIL 0/0	ter Back	Print Screen Captur	n re Measurement Re	ecorded Data	← ↓ × I 12.2V VI MI	-
Automatic Selection(VIN) Manual Selection(Vehicle Name) /rehicle Name : Image: Composition of the selection of the selecti	Re/programming, Configuration		Precaution	Vehicle Selection	Vehicle Confirmation	
Tehicle Name : Model Year : Nodel Year : 'MURANO Camp:P8201 JUKE QUEST 350Z Dooute 370Z Dooute 370Z Dooute 370Z Convertible Cabriolet ALTIMA Cabriolet ALTIMA Cabriolet ALTIMA Hybrid NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER X.TERA FRONTIER PATHFINDER X.TRAIL	Automatic Sele	ection(VIN)	Manual Select	tion(Vehicle Name)		
'MURANO Camp:P8201 JUKE QUEST 350Z 370Z 370Z 370Z ALTIMA Cabriolet ALTIMA NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER X.TERA FRONTIER PATHFINDER X.TRAIL	/ehicle Name :				Model Year :	Sales Channel
350Z LEF DODUE 370Z Example 370Z Convertible Example ALTIMA Cabriolet ALTIMA Cabriolet ALTIMA VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER FRONTIER XTERRA FRONTIER XTERRA 1/1 0/0	*MURANO Camp:P8201	JUKE	QUEST			NISSAN
370Z Balantian 370Z Convertible Cabriolet ALTIMA Cabriolet ALTIMA NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER XTERRA FRONTIER PATHFINDER X-TRAIL 0/0	350Z	LEAD	POOLE			INFINITI
370Z Convertible Cabriolet Image: Cabriolet in the second se	370Z	-	vomnlo			
ALTIMA Cabriolet Cabriolet ALTIMA Hybrid NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER XTERRA FRONTIER PATHFINDER X-TRAIL	370Z Convertible	E	xample			
ALTIMA Hybrid NISSAN GT-R VERSA Hatchback ARMADA NV VERSA Sedan CUBE PATHFINDER XTERRA FRONTIER PATHFINDER X-TRAIL 1/1 0/0 Select	ALTIMA	Cabriolet				
ARMADA NV VERSA Sedan CUBE PATHFINDER XTERRA FRONTIER PATHFINDER ARMADA X-TRAIL	ALTIMA Hybrid	NISSAN GT-R	VERSA Hatchback			
CUBE PATHFINDER XTERRA FRONTIER PATHFINDER ARMADA X-TRAIL	ARMADA	NV	VERSA Sedan	1		
FRONTIER PATHFINDER ARMADA X-TRAIL Select 1/1 0/0 0/0	CUBE	PATHFINDER	XTERRA			CLEAR
1/1 0/0 Select	FRONTIER	PATHFINDER ARMADA	X-TRAIL			Select
				1/1	0/0	Gelect

Figure 3

- 14. Verify the correct VIN is populated.
- 15. Select **Confirm**.

VIN or Chassis #	*****	ххх	
Vehicle Name :	XXXXXX		
Model Year	XXXXXXX		_
		1/1	

Figure 4

16. Select Confirm.

Image: Back	
Configuration Vehicle Input VIN	4/4
Input VIN	
Enter the VIN number, and touch "Confirm". According to this operation, in case of specified operation that requires to save ECU information into CONSULT, VIN number you input is saved as file name. Therefore, confirm VIN number correctly.	
NSAN 1910年 COLUDIADAN NSAN 1910年 COLUDIADAN NSAN 1910年 COLUDIADAN NSAN 1910年 IBECA LA NSAN 1910 NSAN 1910 N	
VIN (17 or 18 digits) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	Confirm

Figure 5

17. Select IPDM E/R.

Back Rome Print Screen Capture	Measurement Recorded Data	s 🚓 🕅 🖌 🖿 📃 🔀			
Configuration	Configuration Selection Department of the System Selection Operation Selection				
System Selection					
Touch "system". In case ECU you want to operate is not listed	below, the vehicle or model year might	be selected wrong.			
ENGINE	8ch GW 2	METER/M&A			
MULTI AV	SCCM	LASER/RADAR			
HANDS FREE MODULE	EPS/DAST 3	AUTO DRIVE POS.			
Audio amp.	ABS	ALL MODE AWD/4WD			
IVC	IPDM E/R	всм			
		1/2			

Figure 6

18. Select Configuration under VEHICLE CONFIGURATION.

Re/programming, Configuration System Selection Operation Selection Touch "Operation". In case over write current ECU, touch "Reprogrammin In case replacement of ECU, select an operation in REP	Operation Selection g". .ACE ECU category.	
Operation Selection Touch "Operation". In case over write current ECU, touch "Reprogrammin In case replacement of ECU, select an operation in REP	g". .ACE ECU category.	
Touch "Operation". In case over write current ECU, touch "Reprogrammin In case replacement of ECU, select an operation in REP	g". LACE ECU category.	
REPROGRAMMING		
Reprogramming	vant to reprogramming EC	U, touch "Reprogramming".
Replacement OF ECU		
Programming (Blank ECU)		
Before ECU Replacement After I	ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sa to CONSULT.
VEHICLE CONFIGURATION		
Configuration		Touch "Before ECU Replacement", Operation log with configuration data saved to CONSULT.

Figure 7

19. Select START.

Back Home Print Screen	Creen Mode Mode	
Re/programming, Configuration	Server authentication Automatic Configuration	9/9
Automatic Configuration	configuration (No save data needed)	
Configuration will be performed for the Touch "Start" to proceed with the Auto	te following VIN. to Configuration for the selected ECU.	
VIN	XXXXXXXXXX XXXXXX	
DOWNLOAD		0%
CONFIGURATION		0%
		START

Figure 8

20. When the configuration reaches "100%", select **End**.



- 21. Clear the DTC.
 - If DTC B20C8-14 is past, A/C compressor operation will be inhibited until the DTC is cleared.
 - If DTC B20C8-14 returns after being cleared (either current or past status), perform the diagnosis procedure in the ESM.
 - For models with Automatic Air Conditioning, refer to the ESM: VENTILATION, HEATER & AIR CONDITIONER > HEATER & AIR CONDITIONING CONTROL SYSTEM > AUTOMATIC AIR CONDITIONING > DTC/CIRCUIT DIAGNOSIS > B20C8-14 ECV (ELECTRICAL CONTROL VALVE)
 - For models with Manual Air Conditioning, refer to the ESM: VENTILATION, HEATER & AIR CONDITIONER > HEATER & AIR CONDITIONING CONTROL SYSTEM > MANUAL AIR CONDITIONING > DTC/CIRCUIT DIAGNOSIS > B20C8-14 ECV (ELECTRICAL CONTROL VALVE)

PARTS INFORMATION

MODEL	DESCRIPTION	PART NUMBER	QUANTITY
Pathfinder	CONTROL UNIT - IPDM, ENGINE ROOM	284B7-6TA1C	1
Rogue	CONTROL UNIT - IPDM, ENGINE ROOM	284B7-6RA1C	1

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace IPDM Module	(1)	RD21AA	ZE	32	(2)

(1) Reference the electronic parts catalog and use the IPDM Control Unit (284B7-****) as the Primary Failed Part (PFP).

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated Flat Rate Time (**FRT**).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
August 6, 2021	NTB21-072	Original bulletin published
June 13, 2023	NTB21-072A	Changes made throughout