

SERVICE BULLETIN

HA21-004

NTB21-072

August 6, 2021

Date:

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

APPLIED VEHICLES: 2022 Pathfinder (R53) 2021 Rogue (T33) with PR25DD engine only

IF YOU CONFIRM

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

AND

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

ACTION

Update the IPDM E/R to the latest software version.

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.

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.

NOTICE

- Connect a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle battery voltage drops <u>below 12.0V or rises above 15.5V</u> during reprogramming, <u>the IPDM E/R may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads.
 If a vehicle electrical load remains ON, the IPDM E/R 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 IPDM E/R 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 <u>the IPDM E/R may be damaged</u>.
- 1. Turn ON the ignition.
- 2. Connect the VI to the vehicle.
- 3. Start C-III plus.
- 4. Wait for the VI to be recognized.
 - The serial number will display when the VI is recognized (see Figure 1).

5. Select **Re/programming, Configuration**.

	Back Home PrintScreen Cables Measurement Mode Record	
	Connection Status	Diagnosis Menu
	Serial No. Status	Diagnosis (One System)
The VI is recognized	VI 232665 2 Normal Mode/Wireless connection	Diagnosis (All Systems)
	MI - Onection	Re/programming,
	Select VI/MI	
	Application Setting Sub mode Sub mode Setting	Maintenance
	VDR	
	Figu	ire 1

6. 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 of the precautions.

	ion		Precaution	Ve	hicle Selecti	on	
Precaution							
	tions for reprogramming,						-
Please review the a touch "Next".	all of precautions, and clie	ck the "Confirm"	check box after c	onfirming the	its points.	And	
Caution:						(
1. Follow the open	ation guide displayed on ome" button may not be u						
	version of the CONSULT	-III plus sortware	, reprogramming/p	rogramming	data to this	•	
1. Install the latest CONSULT-III plus	version of the CONSULT				data to this	•	
1. Install the latest CONSULT-III plus I 2. Preparation and -For ECU Configu	version of the CONSULT PC. I read the service manual ration	l or reprogrammi	ing procedure she		data to this		
1. Install the latest CONSULT-III plus 2. Preparation and -For ECU Configur 1. Need to write th	version of the CONSULT PC. read the service manual	l or reprogrammi ew ECU, after re	ing procedure she place it.	et.	data to this	5	
1. Install the latest CONSULT-III plus 2. Preparation and -For ECU Configu 1. Need to write th 2. If writing the wr	version of the CONŠULT PC. I read the service manual ration e configuration data to n ong configuration data, E	l or reprogrammi ew ECU, after re CU can not wor	ing procedure she place it.	et.	data to this	5	
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1. Install the latest CONSULT-III plus I 2. Preparation and 1. Need to write th 2. If writing the wr For ECU Configu 1. Confirm the vehi configuration data	version of the CONŠULT- PC. read the service manual ration e configuration data to n ong configuration data, E ration using manual mod	l or reprogrammi ew ECU, after re CU can not wor e uration spec, foll uration spec, foll	ing procedure she place it. k. Please write the owing the service it data.	et. right data.			

Figure 2

- 7. Select the correct Vehicle Name and Model Year.
- 8. Select Select.

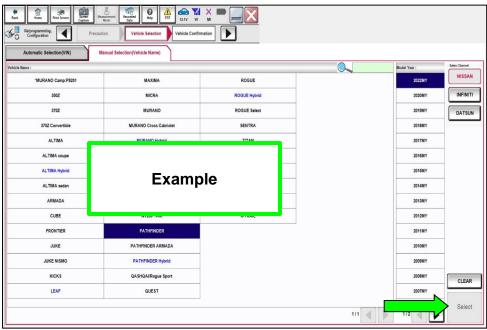


Figure 3

- 9. Verify the correct VIN is populated.
- 10. Select Confirm.

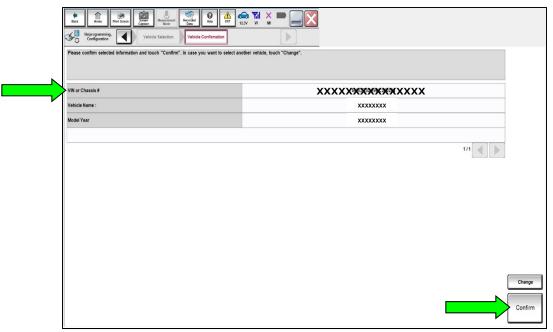


Figure 4

11. Select Confirm.

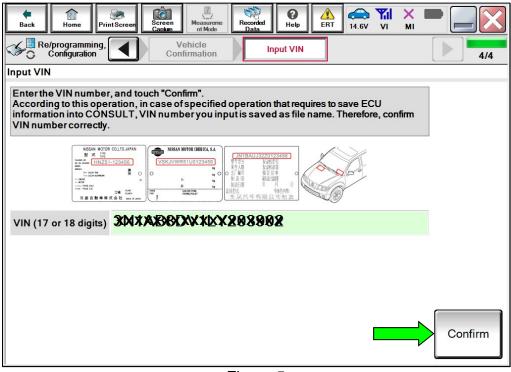


Figure 5

12. Select IPDM E/R.

Image Image <td< th=""></td<>							
Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong.							
ENGINE	AUTO DRIVE POS.	нуас					
MULTI AV	ALL MODE AWD/4WD	AVM					
HANDS FREE MODULE	BCM	CHASSIS CONTROL					
Audio amp.	SONAR	TRANSMISSION					
IVC	LANE CAMERA	ICC/ADAS 2					
8ch GW 2	CAN GATEWAY						
EPS/DAST 3	AIR BAG						
ABS	AUTO BACK DOOR						
IPDM E/R	Side radar (Rear left)						
	Side radar (Rear right)						
METER/M&A	Side radar (Rear right)						

Figure 6

13. Select Reprogramming.

Operation Selection Touch "Operation". In case over write current ECU, b In case replacement of ECU, selec	uch "Reprogramming". an operation in REPLACE ECU category.		
REPROGRAMMING	Reprogramm	ling	In case you want to reprogramming ECU, touch "Reprogrammin
Replacement OF ECU			

Figure 7

14. Find the IPDM E/R **Part Number** and write it on the repair order, and then select **Save**.

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

Bax Des Des <th></th>	
Touch "Save" to save operation log and the current part number as listed below to CON Operation log helps to restart next operation by selecting suitable operation log. Operation	UULT. In big is erased after operation has completely finished.
File Label	XXXXXXXXX
Operation	REPROGRAMMING
System	IPDM EIR
Part Number	****
Vehicle	XXXXXXX
VN	XXXXXXXXXXXX
Date	7/21/2021 11:32:29 AM
	Save

Figure 8

15. Use the arrows (if needed) to view and read all of the precautions.

CONSULT-III plus	VIN:	Vehicle :		Country : United States
Back Home Print Screen	Screen Capture	nt Recorded Data	14.4V VI	× • • • •
Re/programming, Configuration	Save ECU Data	Precaution	Select Program	Data 8/10
Precaution				
Operating suggestions: If the reprogramming/programmi usable. Please review the all of precautio	-			
<before reprogramming<br="" starting="">-Work preparation 1. Install the latest version of th 2. Turn off any wireless devices -PC preparation 1. Close all other software excep 2. Check that the screen saver is "Properties". Select the Screen S click "OK". 3. Operate the PC using the A/C 4. DO NOT disconnect the VI dis -Vehicle preparation 1. Adjust the battery charger out 13.5V, For EV, DO NOT charget to 1. Sov. For EV, DO NOT charget out</before>	e reprogramming data such as mobile phon ot CONSULT-III plus an turned OFF. To do thi Saver tab then select " adaptor to keep the t agnosis data link cabl put so that the battery	es, cordless phones, transcein d DO NOT activate any other s, right-click on the PC Deskto (None)" from the Screen Saver battery charged. e during report/programming. voltage of the 12V battery is in	vers, etc. software. p, and select pull-down menu	
2. Turn OFF all electrical compo 3. DO NOT turn OFF the ignition depressing the brake pedal to s	nents and do not ope switch/Power switch.	rate any electrical component For EV/HEV, push power switc	h twice without	ninate.)

Figure 9

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

	NSULT-III plus	VIN	Vehicle :		Country : United States
e Back	Home Print Scree	n Screen Capture Mode	Recorded Data	13.7V VI M	
50	Re/programming, Configuration	Save ECU Data	Precaution	Select Program Dat	ta 8/10
Precaut	tion				
4. DO <durir< th=""><th>e review the all of precau NOT set the A/C timer o ng reprogramming> touch the CONSULT-III</th><th>r A/C remote control syste</th><th>ent cable disconnection.</th><th>ng the its points.</th><th></th></durir<>	e review the all of precau NOT set the A/C timer o ng reprogramming> touch the CONSULT-III	r A/C remote control syste	ent cable disconnection.	ng the its points.	
Never	depress the brake peda open each door or trunk		el.		Next

Figure 10

17. Review the data on the screen, and then select **Next**.

bea new hor som of the source of the so	AV YI W P P YI					
in case the screen to select reprogbrogramming data is NOT displayed, only one data is available for this vehicle. In case the part number after reprogramming is wrong, touch "Re-select", and confirm the vehicle selection, VN and reprogbrogramming data in CONSULT.						
Part Number After Repro/programming	xxxxxx					
Current Part Number	xxxxxxx					
Vehicle	xxxxxx					
VIN	*****					
System	IPDM E/R					
Other Information	USM SW60.3 to SW60.4					
Expected time to finish relprogramming	10min					
		Re-select				
		Next				

Figure 11

18. Follow the on-screen instructions, and then select **Next**.

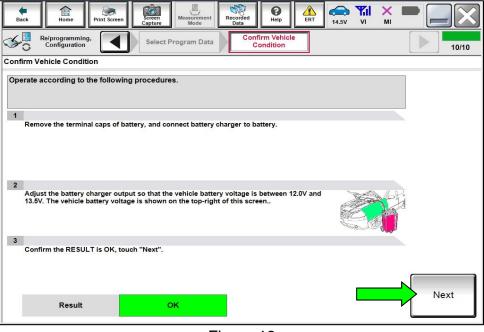


Figure 12



- To avoid damage to the IPDM E/R, ensure a battery maintainer or smart charger set to reflash mode or a similar setting is connected, as <u>the update will take</u> <u>approximately 15 minutes to complete</u>.
- To avoid damage to the IPDM E/R, ensure the AC Adapter is connected to the CONSULT PC.
- 19. Confirm the battery voltage is within acceptable limits, and then select **Start**.

tore Back Pritt Screen Screen Mossurement Mode Recorded Lata	Image: Weight Heip Image:							
Re/programming, Confirm	m Vehicle Idition	10/10						
Confirm Vehicle Condition								
nfirm the vehicle condition as listed below, set the vehicle conditio	n correctly							
n, confirm that judgment for all items indicate OK, and touch "Star	t". In case the vehicle condition	is out of range, reprogramming or	programming may stop.					
Monitor item	Value	Unit	Judgment	Condition				
	12.6	V	OK	Condiada				
BATTERY VOLTAGE	12.6	v	UK					
IGNITION POWER SUPPLY	Off		ок					
Vehicle speed	0	km/h	ок					

Figure 13

20. Select your user group from the drop down menu, and then select **OK**.

Image: Back Image: Back							
Re/programming, Configuration Transfer Data User Authentication Transfer Data 3/4							
User Authentication							
NISSAN MOTOR CORPORATION							
Please select your							
user group.							
USA/CANADA Dealers							
ок							

Figure 14

21. Enter your **Username** and **Password**, and then select **Submit**.

Back Home	Print Screen	en Measurement	Recorded Data	ERT 13.		× 💻 📒	
Re/programming, Configuration		Transfer Data	User Authentica	tion	ransfer Data		3/4
User Authentication							
Secure							Î
Daimler WS							
		Please enter your UserID	below.				
		Username: Username					
		Password: Password					E
		Submit					
Restart Login						Powered by SECUREAUTH	
							-

Figure 15

- 22. Allow Transfer Data to complete.
 - The update will take approximately 15 minutes to complete.

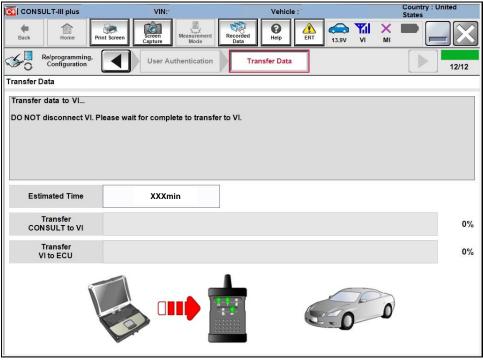


Figure 16

23. Once the update completes, select Next.

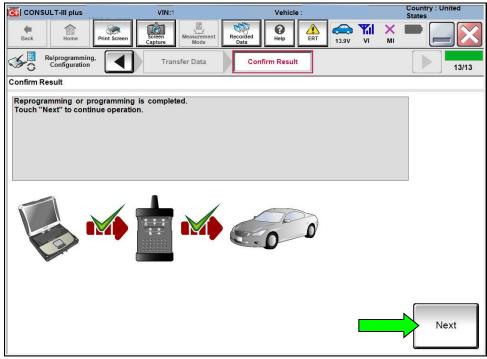


Figure 17

24. Erase all DTCs.

• Turn the ignition ON.

CONSULT-III plus		'IN:1	Vehicle		Country : United States
Back Home	Print Screen	Screen Capture	Recorded Data	12.6V VI MI	
Re/programming Configuration		Confirm Result	Erase All DTCs	Print Result / Operation Complete	14/15
Erase All DTCs					
According to the instru 1 Turn ignition switch		rase All DTCs. ition, then All DTCs are	automatically erased.	Contraction of the second seco	
Current status switcl		OFF			
		switch displayed on ti n, touch "NEXT" to go	he screen differs from the to the next screen.	status of	Next

Figure 18

25. Allow Erase All DTCs to complete.

	VIN:	Vehicle :		Country : United States
Back Rome Print Screen	Screen Capture	Recorded Data	12.6V VI MI	
Re/programming, Configuration	Confirm Result	Erase All DTCs	Print Result / Operation Complete	14/15
Erase All DTCs				
According to the instructio				
1 Turn ignition switch to Current status of i	E		S S S S S S S S S S S S S S S S S S S	
switch				
If the current status c the actual vehicle ignition swi	tch, touch "NEXT" to go	to the next screen.		
				Next

Figure 19

26. Follow the on-screen instructions, and then select Confirm.

G CONSULT-III plus	VIN:	j	Vehicle :			Country : United States
Back Home Print Screen St	creen apture Mode	Recorded Data	Help	14.4V	Ж	-
Re/programming, Configuration	Erase All DTCs		Result / on Complete			15/15
Print Result / Operation Complete						
All tasks are completed. Confirm LAN In case CONSULT can NOT immediate temporally storage of this page. Touch Data Folder" on desk top, and open the	ly access to LAN or "Screen Capture",	printer, Screand save it.	een Capture func Screen capture o			
Part number after Reprog/programming		x	****			
Part number before Reprog/programming		x				
Vehicle		:	****			
VIN		XXXXX	KANGAR XINGGA XA	έΧ.		Print
System			IPDM E/R			
Date		XXXX	*** **	XX		Other Operation
				1/1		Confirm

Figure 20

27. Select Home.

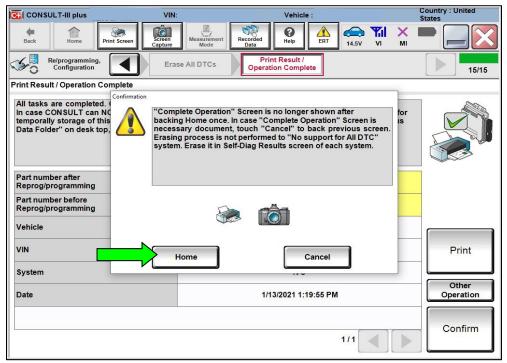


Figure 21

- 28. Clear the DTC, and follow the **DTC CONFIRMATION PROCEDURE** in the ESM.
 - If DTC B20C8-14 is past, AC compressor operation will be inhibited until the DTC is cleared.
 - If DTC B20C8-14 returns after being cleared (either Current or Past status), follow the ESM diagnosis procedure.
 - 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)

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Perform IPDM E/R Software Update	(1)	RX9NAA	ZE	32	0.6

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

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
August 6, 2021	NTB21-072	Original bulletin published