

NTB21-040

May 20, 2021

Date:

2021 ROGUE; DTCS B2740-87, B2744-87, AND/OR B274D-87 STORED

APPLIED VEHICLE: 2021 Rogue (T33)

IF YOU CONFIRM

DA21-003

Any of the following DTCs are stored:

- B2740-87 (TCU)
- B2744-87 (BCM)
- B274D-87 (Combination Meter)

ACTION

Reprogram the Sonar Control Unit, if applicable.

IMPORTANT: The purpose of ACTION (above) is to give you a guick 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

Sonar Control Unit Reprogramming

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.
- The CONSULT PC is connected to the internet via a cable or Wi-Fi.
 - Later in the procedure you will be required to enter your username and password.
 - > The CONSULT PC must be connected to the internet.
 - If you do not know your username and password, contact your service manager.
- A screen print for warranty documentation can be done from the C-III plus during this service procedure while still connected to the vehicle.
- No Diagnostic Trouble Codes (DTCs) are stored.
 - > Use C-III plus to perform Self Diagnosis for all systems.
 - If there are any DTCs, other than B2740-87, B2744-87 and/or B274D-87, diagnose, perform repairs, and erase DTCs before continuing.
- 1. Connect the VI to the vehicle.

NOTICE

Make sure the VI is securely connected. If the VI connection is loose during reprogramming, the process will be interrupted and the control unit may be damaged.

2. Connect the AC Adapter to the CONSULT PC.

NOTICE

Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and the control unit may be damaged.

3. Connect a battery maintainer/smart charger set to reflash mode or a similar setting.

NOTICE

To avoid damage to the control unit, ensure a battery maintainer or smart charger is connected. The battery voltage must be <u>between 12.0V and 15.5V</u> during reprogramming.

4. Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and VI.

NOTICE

Make sure to turn OFF all external Bluetooth[®] devices. If Bluetooth[®] signal waves are within range of the CONSULT PC and the VI during reprogramming, reprogramming may be interrupted and the control unit may be damaged.

5. Turn the ignition ON with the engine OFF.

NOTICE

To avoid damage to the control unit, the engine must not start or run during the reprogramming procedure.

- 6. Turn OFF all vehicle electrical loads such as exterior lights, interior lights, HVAC, blower, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc.
- 7. Turn ON the hazard warning lamps.
- 8. Turn ON the CONSULT PC.
- 9. Start C-III plus.
 - The serial number will display when the VI is recognized.

	Connec	tion Status		Diagnosis Menu
		Serial No.	Status	Diagnosis (One System)
VI is recognized	VI	2300727	⊳>>))) Normal Mode/Wireless connection	Diagnosis (All Systems)
	MI		No connection	Re/programming, Configuration
		Select VI/MI	1	Immobilizer
		ion Setting Sub mode	Language Setting	Maintenance
	37	/DR]

10. Select Diagnosis (One System).

	Serial No.	Status	Diagnosis (One System)
v i [2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)
MI	·	No connection	Re/programming, Configuration
U	lect VI/MI		Immobilizer
~	mode	ABC Language Setting	Maintenance

Figure 2

11. Select SONAR.

Diagnosis (One System) System	em Selection		
Priority	All system	ns 🔻	
4WAS(MAIN)/RAS/HICAS	EV/HEV	HV BATTERY	ANC
SONAR	POP UP HOOD	TOTAL ILLUM C/U	MULTI DISPLAY
LANE CAMERA	AUTO BACK DOOR	OCCUPANT DETECTION	Side radar (Rear right
ADAPTIVE LIGHT	Diag Data Recorder	SmFOB	ADCM
AUTO SLIDE DOOR RIGHT	4WAS(FRONT)	BRAKE	PTC HEATER
CAN GATEWAY	E-SUS	Side radar (Rear left)	CHARGER/PD MODUL
SHIFT	ACCELE PEDAL ACT	VSP	TELEMATICS

Figure 3

- 12. Select ECU Identification.
 - If the ECU PART NUMBER is 284S9-1517R, this bulletin does not apply. See the Electronic Service Manual (ESM) for further diagnostic information.
 - If the the ECU PART NUMBER is not 284S9-1517R, proceed to step 13.

	confirm Vehicle Diagnosis (All SonAR Systems) SONAR na Monitor ECU
ECU PART NUMBER	284S9XXXXX

Figure 4

13. Select Home.

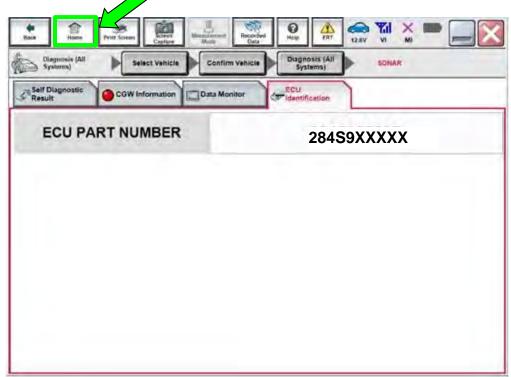


Figure 5

14. Select Re/programming, Configuration.

	Serial No.	Status	Diagnosis (One System)
VI	2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)
мі	•	No connection	Re/programming, Configuration
9	Select VI/MI	1	Immobilizer
~	tion Setting Sub mode	ABC Language Setting	Maintenance

Figure 6

15. 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.

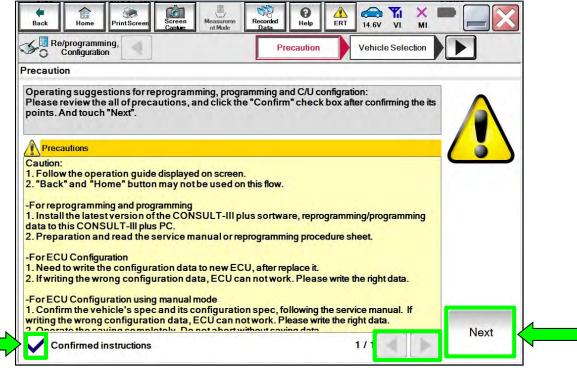


Figure 7

16. Select Automatic Selection(VIN).

Re/programmin Configuration	ng, 1	Precaution	Vehicle Selection	Vehicle Confirmation	
Automatic Se	election(VIN)	ec	ion(Vehicle Name)		
hicle Name :				Model Year :	Salès Channel
*MURANO Camp:P8201	JUKE	QUEST			NISSAN
350Z	LEAF	ROGUE			INFINITI
370Z	MAXIMA	SENTRA			
370Z Convertible	MURANO	TITAN			
ALTIMA	MURANO Cross Cabriolet	TITAN			
ALTIMA Hybrid	NISSAN GT-R	VERSA Hatchback			
ARMADA	NV	VERSA Sedan			-
CUBE	PATHFINDER	XTERRA			CLEAR
FRONTIER	PATHFINDER ARMADA	X-TRAIL			-

Figure 8

17. Allow C-III plus to perform automatic VIN selection.

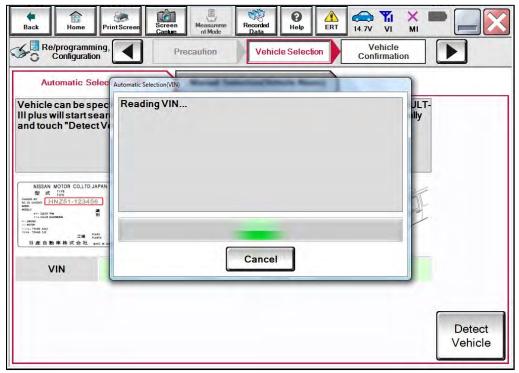


Figure 9

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

Vehicle Name: 於反対文保A
Model Year X8201XY
1/1

Figure 10

19. Allow the System call to be performed.

	Image: Screen Cables Image: Screen It Mode Image: Screen It Mode	
Re/programming Configuration		
vehicle, touch "Cha	System call performing Please wait	
VIN or Chassis #		
Vehicle Name :		
ModelYear		
	73%	
	Cancel	_
	Change	4
	Confirm	

Figure 11

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

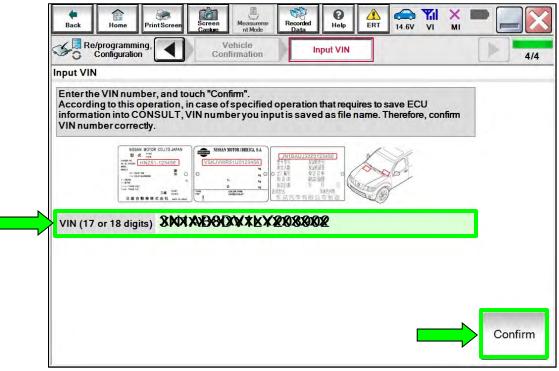


Figure 12

21. Select SONAR.

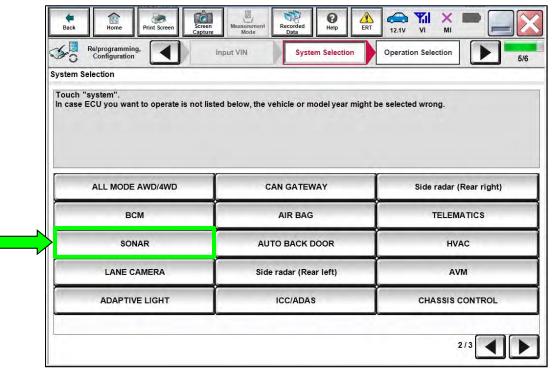


Figure 13

22. Select Reprogramming.

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

Operation Se	<i>L</i>	Reprogramming".	717
LACE ECU category		Reprogramming".	
LACE ECU category		Reprogramming".	
vant to reprogrammi	ing ECU, touch "R	Reprogramming".	
ECU Replacen	Operati	"Before ECU Replacemen ion log with part number is ISULT.	
			_
ECU Replacer	Operati	ion log with configuration	
		Touch	Touch "Before ECU Replacemen

Figure 14

- 23. When you get to the screen shown in Figure 15, confirm that a reprogram is available as follows:
 - a. Find the Sonar Control Unit Part Number and write it on the repair order.

NOTE: This is the <u>current</u> part number (P/N).

	me Print Screen	Creating Ministerment Recorded Heal	e ERT 13,1V VI MI	
ave ECU Data				7/7
Operation log h		g and the current part number as listed operation by selecting suitable operatio hed.		
File Label		XXXXXX	xxxxxxxx	
Operation		REPRO	GRAMMING	1
System		S	ONAR	
Part Number	Current Control L		S9XXXXX	
Vehicle		1 M M	ROGUE	
VIN		XXXXXX	xxxxxxxxx	
Date		*****	****	Save
				199.9

Figure 15

- b. Compare the part number you wrote down to the part numbers in **Table A**.
 - If there is a <u>match</u> in **Table A**, continue with the reprogramming procedure.
 - If there is <u>not a match</u> in **Table A**, this bulletin does not apply. See the ESM for further diagnostic information.

Table A

MODEL	YEAR	CURRENT SONAR CONTROL UNIT PART NUMBER: 284S9-
Rogue	2021	5126R, 5559R

- 24. Follow the on-screen instructions to navigate C-III plus and reprogram the Sonar Control Unit.
- 25. Select Save.

Configuration	Operation Selection Save ECU Data	7/7
ave ECU Data		
	and the current part number as listed below to CONSULT. seration by selecting suitable operation log. Operation log is erased d.	
File Label	XXXXXXXXXXXXXXXX	
Operation	REPROGRAMMING	
	SONAR	
System		
	284\$9XXXXX	
Part Number	284S9XXXXX T33ROGUE	
System Part Number Vehicle VIN		

Figure 16

26. 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.

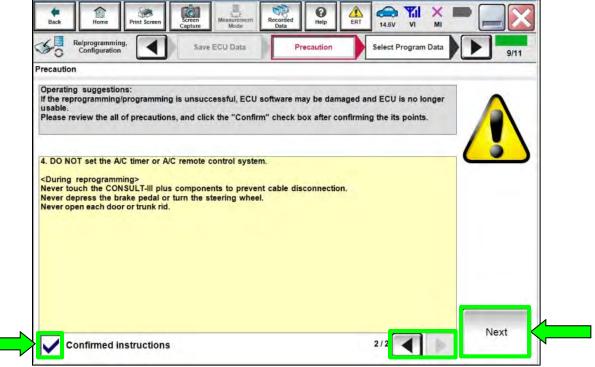


Figure 17

27. If the screen in Figure 18 displays, select **Next**. If the screen in Figure 18 does not display, continue to step 28 on page 14.

Rack Rener Print Screen Capitore	History Recorded Data	
Configuration	scaulion Select Program Data Confirm Vehicle Condition	9/10
elect Program Data		
vehicle.	ming data is NOT displayed, only one data is available for this g is wrong, touch "Re-select", and confirm the vehicle	
Part Number After Repro/programming	284S9XXXX	
Current Part Number	284S9XXXXX	
Vehicle	ROGUE T33	
VIN	*****	
System	SONAR	/
Other Information	P33A SONAR	Re-select
Expected time to finish re/programming	20min	
		Next

Figure 18

- 28. In some case, more than one part number for reprogramming is available.
 - If the screen in Figure 19 displays, and more than one new part number is available, select and use the reprogramming option that does <u>not</u> have the message "Caution! Use ONLY with NTBXX-XXX".
 - If the screen in Figure 19 displays and it is <u>blank</u> (no reprogramming listed), it means there is no reprogramming available for this vehicle. Close C-III plus and refer back to the ESM for further diagnosis.

kk Home Print Seree		orded Help	Confirm Vehicle	
Configuration	Presaution	Select Program Data	Condition	9
et Program Data				-
	rogramming data listed below. g data is listed below, confirm th INSULT.	e vehicle selection, VII	N and	
System	SONAR			<u> </u>
Current Part Number	Part Number After Repro/prog	gramming	Other Information	
xxxxxx-xxxxxxx xxxxxxx-xxxxxxx	x00000X-X00000X X00000X-X00000X		000000000000000000000000000000000000000	
			010	Next

Figure 19

29. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).

NOTICE

To avoid damage to the control unit, ensure a battery maintainer/smart charger is connected. The battery voltage must be <u>between 12.0V and 15.5V</u> during reprogramming.

30. Select Next.

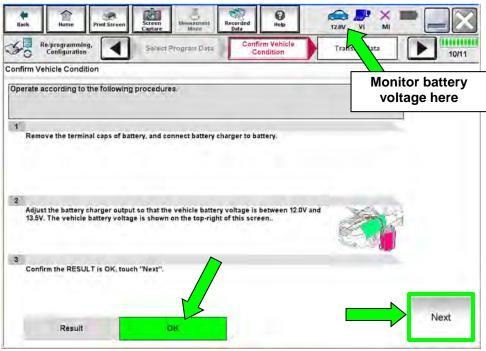


Figure 20

31. Confirm all Judgment items are OK, then select Start.

n Vehicle Condition m the vehicle condition as confirm that judgment for a range, reprogramming or pi	Il items indicate	OK, and touch "			onitor batte oltage here
Monitor Bem	Value	unit	Judgment	Condition	
BATTERY VOLTAGE	14.4	v	DK		

Figure 21

- 32. Select USA/CANADA Dealers.
- 33. Select OK.

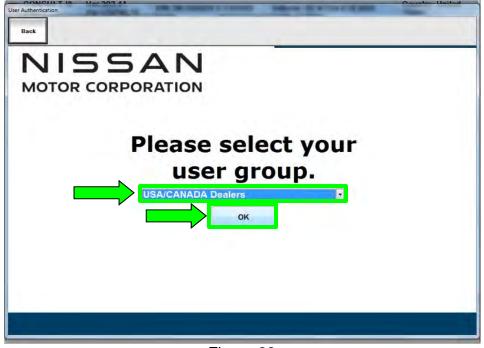


Figure 22

HINT:

- The screen in Figure 22 may not display if the CONSULT PC has remained ON since the last reprogramming.
- If the CONSULT PC is not connected to the internet, the screen in Figure 23 will display.

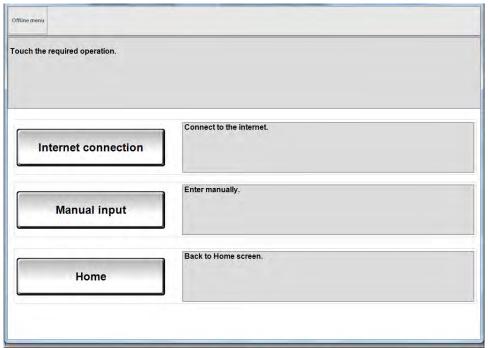


Figure 23

HINT: In the next steps, the reprogramming process will begin when **Submit** is selected.

34. Enter your **Username** and **Password**.

- The CONSULT PC must be connected to the internet via cable or Wi-Fi.
- If you do not know your username and password, contact your service manager.

35. Select Submit.

Back Back NISSAN Geoger Gr Hoarren Avelanick		
NNA Federation		
Prestan Loge	Please eneryour User(I) below. Usersame Patter/dt Patter/etg Submit	Subarration
	Supplied 2015 Securited Day Graphysonesis	

Figure 24

36. Wait for both progress bars to complete.

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Martin Martin	Second Second		
Configuration	User Authentication	Transfer Data		13/13
Transfer Data				
ProgrammingVI is transferr in case the other VI is availab other vehicles by using other screen, and touch "VIMI sele "Reprogramming/Programmi	VI. In case you want to use ction" to select other VI. In	lable for other operation CONSULT-III plus with	other VI, touch "Hon	ne" to back to Home
Estimated Time	10min			
Transfer CONSULT to VI				100%
Transfer VI to ECU				40%
			0.0	0

Figure 25

- 37. When the screen in Figure 26 displays, the reprogramming is complete.
 - If the screen in Figure 26 does not display (indicating that reprogramming did not complete), refer to **Sonar Control Unit Recovery** on the next page.
- 38. Disconnect the battery maintainer or smart charger from the vehicle.
- 39. Select Next.

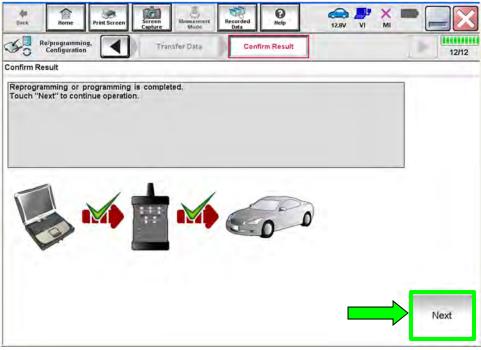


Figure 26

HINT: Additional steps/operations are required before C-III plus will provide the final reprogramming confirmation report. Continue with the reprogramming procedure on page 20.

Sonar Control Unit Recovery

Do not disconnect the VI or shut down C-III plus if reprogramming does not complete.

If reprogramming does <u>not</u> complete and the "!?" icon displays as shown in Figure 27:

- Check battery voltage (12.0 15.5 V).
- Ignition is ON, engine OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>retry</u> and follow the on screen instructions.
- <u>"Retry" may not go through on first</u> attempt and can be selected more than once.

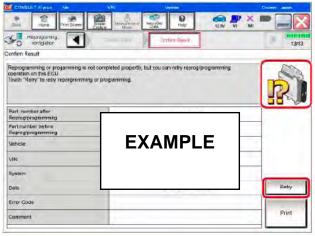


Figure 27

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 28:

- Check battery voltage (12.0 15.5 V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine OFF.
- Transmission is in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and restart the reprogram procedure from the beginning.

CONSULT-LI DUS Ver	VIN Vehicle, CABHOAI	County Haban
ane Phit Sover	Betrace Laboration American Am	, X - X
So condition	Curfin: Resul	9/9
enfim Result		
with procedure.	sperty CONSULT version, IGN/Fower ewitch position, shift position og VI onse, and start the reprogramming again	ard etc
Part number after		
Reprog/programming		
Reprogramming. Current part number	EXAMPLE	
Reprogramming Current part number Vehicle	EXAMPLE	
Reprographonainning Cumorf part number Velsele VIN	EXAMPLE	
Reprograngsanning Current part number Vehisele Villi	EXAMPLE	
rain nanoseranian Cumeri part number Vehole Ville System Intomation	EXAMPLE	

Figure 28

- 40. Erase all DTCs as follows:
 - A. Turn the ignition OFF.
 - B. Turn the ignition ON.

Back Hame Print Screen	Screen Capture Mode R	ecorded Data	(13.6V VI MI	
Configuration	Confirmation Start up Engine	Erase All DTCs	Print Result / Operation Complete	17/18
Erase All DTCs				
According to the instruction below		omatically erased.		
Current status of ignition switch	ON	1	OFF	ON
	Turn ignition	OFF > ON		

Figure 29

HINT: When the entire reprogramming process is complete, the screen in Figure 30 will display.

- 41. Verify the before and after part numbers are different.
- 42. Print a copy of the screen below (Figure 30) and attach it to the repair order for warranty documentation.

HINT: If you cannot print the screen:

- a. Select Screen Capture.
- b. Name the file.
- c. Save the file in My Documents.
- A copy of the screen is now saved in the C-III plus. It can be retrieved and printed at a later time.
- 43. Select **Confirm**.

Back Print Sersen	Annual Annu	
Configuration	Print Result / Operation Complete	15/15
Print Result / Operation Complete		
All tasks are completed. Confirm LAN acco In case CONSULT can NOT immediately ac temporally storage of this page. Touch "Sc Data Folder" on desk top, and open the fold	cess to LAN or printer, Screen Capture function is available for reen Capture", and save it. Screen capture data is in "Cill plus	
Part number after Reprog/programming	28459XXXXX	
Part number before Reprog/programming	284S9XXXXX	
Vehicle	T33 ROGUE	1
VIN	xxxxxxxxxxxxxx	Print
System	SONAR	
Date	4/14/2021 3:08:57 PM	Other Operation
	1/1	Confirm

Figure 30

44. Select Home (screen not shown).

45. Select Re/programming, Configuration.

	Serial No.	Status	Diagnosis (One System)
n	2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)
NI	•	No connection	Re/programming, Configuration
0	Select VI/MI		Immobilizer
-	ion Setting Sub mode	ABC Language Setting	Maintenance

Figure 31

NOTE: C-III plus screens for steps 46–49 are not shown.

- 46. Read the precautions on the C-III plus screen, check the box for Confirmed Instructions, then select **Next**.
- 47. Select Automatic Selection(VIN).
- 48. Select Confirm.
- 49. Select Confirm.

50. Select SONAR.

	Input VIN System Selection	Operation Selection
System Selection		
Touch "system". In case ECU you want to operate is not list	ted below, the vehicle or model year might l	be selected wrong.
	r	r
ALL MODE AWD/4WD	CAN GATEWAY	Side radar (Rear ri
BCM	AIR BAG	TELEMATICS
SONAR	AUTO BACK DOOR	HVAC
LANE CAMERA	Side radar (Rear left)	AVM
		CHASSIS CONTR
ADAPTIVE LIGHT	ICC/ADAS	

Figure 32

51. Select Configuration.

Observations Obstantions		
Operation Selection		
Touch "Operation". In case over write current ECU, touch In case replacement of ECU, select an		
REPROGRAMMING	In case you want to reprogramming ECU	, touch "Reprogramming".
Reprogramming		
Reprogramming Replacement OF ECU Programming (Blank ECU)		
Replacement OF ECU	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is saved to CONSULT.
Replacement OF ECU Programming (Blank ECU) Before ECU	After ECU Replacement	Operation log with part number is saved

Figure 33

52. Select START.

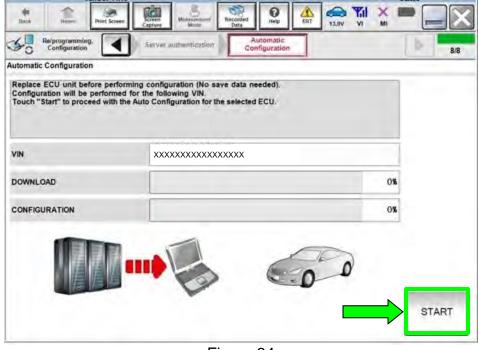


Figure 34

53. Select End.

Configuration utomatic Configuration		8/8
Touch "End" to finish operation.	and to back to Home Screen. Confirm each function works correctly.	
/IN	¹ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
DOWNLOAD	1005	
CONFIGURATION	1005	

Figure 35

54. Select **Home** button (screen not shown).

55. Select Diagnosis (All Systems).

	Serial No.	Status	Diagnosis Menu Diagnosis (One System)
VI	2300727	Normal Mode/Wireless connection	Diagnosis (All Systems)
МІ	•	No connection	Re/programming, Configuration
	Select VI/MI	1	Immobilizer
~	tion Setting Sub mode	ABC Language Setting	Maintenance

Figure 36

NOTE: C-III plus screens for steps 56–58 are not shown.

- 56. Select Automatic Selection(VIN).
- 57. Select Confirm.
- 58. Select Confirm.

- 59. Turn the ignition OFF.
- 60. Turn the ignition ON.
- 61. DTCs B2724-55 and C1F65-04 may be displayed.
- 62. Select ERASE.

All DTC	Selec	CAN DIAG	osis (Al) tems)	Netwo	MI	
alt	0	Detailed Information		0		
SONAR		SONAR	-	_	(DTO)	
ICC/ADAS 2	-	B2724-55 SONAR CONTROL UNIT	CRNT	FFD	DTC Expla	
ENGINE	NO DTC	C1F65-04 Sonar control unit	CRNT	FFD	DTC Expla	
ABS	NO DTC					
METER/M&A	NO DTC					Print
BCM	NO DTC				-	for Custome
AIR BAG	NO DTC					
1/4			1/			ERASE

Figure 37

- 63. Close C-III plus.
- 64. Turn the ignition OFF.
- 65. Disconnect the VI from the vehicle.
- 66. Start the engine.
- 67. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.
 - If the MIL comes ON, go back to the ESM for further diagnostic information.
 - Diagnosis and repairs beyond Sonar Control Unit reprogramming are not covered by this bulletin.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Check Sonar ECU Part Number	(1)	RX9YAA	ZE	32	0.4

OR

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Sonar Control Unit	(1)	RX9QAA	ZE	32	0.9

(1) Reference the electronic parts catalog and use the Sonar Control Unit (28532-****) as the Primary Failed Part (PFP).

NOTE: FRT allows adequate time to access DTC codes. No other diagnostic procedures subsequently required. Do NOT claim any Diagnostic Op Codes with this claim.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
May 20, 2021	NTB21-040	Original bulletin published