

EL23-017A

NTB23-057A

August 1, 2023

VOLUNTARY SAFETY RECALL CAMPAIGN 2018-2023 LEAF; VCM REPROGRAM

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

CAMPAIGN ID #: APPLIED VEHICLES: R23A6 2018-2023 LEAF (ZE1)

Check Service COMM or Dealer Business Systems (DBS) National Service History to confirm campaign eligibility.

INTRODUCTION

Nissan is conducting this voluntary safety recall campaign on certain specific model year 2018-2023 LEAF vehicles to reprogram the Vehicle Control Module (VCM). This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R23A6 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service COMM or Dealer Business Systems (DBS) National Service History for the campaign status on each vehicle falling within the range of this voluntary safety recall which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. **Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration**. While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

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

IMPORTANT: Before starting, make sure:

- All C-III plus software updates (if any) have been installed.
- The CONSULT PC is connected to the internet (Wi-Fi or cable).

NOTICE

- Make sure the VI is securely connected. If the VI connection is loose during reprogramming, reprogramming may be interrupted and <u>the VCM may be</u> <u>damaged</u>.
- Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and <u>the VCM may be</u> <u>damaged</u>.
- Do <u>NOT</u> use a standard battery charger for Hybrid/Electric vehicles. Make sure to connect the battery maintainer/smart charger securely to the 12V battery. Make sure the battery voltage stays between <u>12.0V and 13.5V</u> during reprogramming. If the battery voltage does NOT stay between <u>12.0V and 13.5V</u> during reprogramming, <u>the VCM may be damaged.</u>
- 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 VCM may be damaged</u>.
- 1. Connect the VI to the vehicle.
- 2. Connect the AC Adapter to the CONSULT PC.
- 3. Turn the EV system ON (Not Ready) mode, by pressing the power switch two (2) times WITHOUT depressing the brake pedal.
 - Verify the radio, headlamps and HVAC are all turned OFF.
 - Turn the hazard warning lamps ON and leave them on for the duration of the reprogram.
- 4. Start C-III plus.

- 5. If prompted, select **USA/CANADA Dealers** from the drop down menu, and then select **OK.**
- 6. If the Script Error shown in Figure 1 is present, select **Yes**.



Figure 1

- 7. Wait for the VI to be recognized (Figure 2).
 - The serial number will display when the VI is recognized.
- 8. Select **Re/programming, Configuration**.

Serial No.	Status	Diagnosis (One System)
VI 232665 2	►))) Normal Mode/Wireless	
M		
	No connection	Re/programming, Configuration
Select VI/N	AI	Immobilizer
Application Setting		
Sub mode	Language Setting	Maintenance

Figure 2

9. 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 the precautions.

	on							
0								
Please	review the all o	f precautions	s, and click th	e "Confirm" ch	eck box aft	on: er confirming	the its	\wedge
points.	And touch "Nex	ď.						
Prec	autions						(0
Caution 1. Follo	w the operation	n quide displa	ved on screer	e .				
2. "Bac	"and "Home"	button may n	not be used o	n this flow.				
		nd programmir	ng					
-Forrer	rogramming ar		NSULT-III n	lus sortware, r	eprogrammi	ng/program	nina	
-Forreg 1. Insta	the latest vers	sion of the C(SHOOL I MP	a substantia a substant de la			and the second se	
1. Insta data to 2. Prep	rogramming an I the latest vers his CONSULT ration and rea	sion of the CC -III plus PC. d the service	manualorre	programming	procedure sh	eet.		
-Forreg 1. Insta data to 2. Prep	I the latest vers his CONSULT ration and rea	sion of the C(-III plus PC, d the service	manualorre	programming p	procedure sh	eet.	5	
-For rep 1. Insta data to 2. Prep -For EC 1. Need	I the latest vers his CONSULT ration and rea U Configuration to write the con	sion of the C(-III plus PC, d the service nfiguration da	e manual or re ata to new EC	programming p	procedure sh	eet.	5	
-For rep 1. Insta data to 2. Prep -For EC 1. Need 2. If writ	I the latest vers his CONSULT ration and rea U Configuration to write the coin ng the wrong c	sion of the CC -III plus PC. d the service nfiguration da configuration	ata to new EC data, ECU ca	programming p CU, after replac an not work. Pl	e it. ease write t	eet. he right data		
For rep 1. Insta data to 2. Prep For EC	I the latest vers his CONSULT ration and rea U Configuration to write the col	sion of the C(-III plus PC, d the service nfiguration da	e manual or re ata to new EC	programming p	procedure sh	eet.	5	

Figure 3

10. Select Automatic Selection(VIN).

Re/programmi Configuratio	ng,	Precaution	Vehicle Selection	Vehicle Confirmation	
Automatic S	election(VIN)	elec	tion(Vehicle Name)		
/ehicle 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	X-TRAIL			

Figure 4

- 11. Allow the VIN to be detected.
 - If the VIN is not automatically detected, select **Detect Vehicle**.

Back Home Print Screer	Screen Capture Mode De	orded Help	← ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	-
Re/programming, Configuration	Precaution	Vehicle Selection	ehicle Confirmation	
Automatic Selection(VIN	I) Manual Selectio	n(Vehicle Name)	4	
Vehicle can be specified by usi start searching vehicle. When V Vehicle". NISSAN MOTOR COLID.JAPAN Mark to the second	NISSAN MOTOB IBERICA, S.A VSKJVWR51U0123456 1- ***********************************	t Vehicle" and then CONS put VIN manually and tout	SULT-III plus will ich "Detect	
VIN]
				Detect Vehicle

Figure 5

12. Confirm the VIN or Chassis #, Vehicle Name, and Model Year are correct for the vehicle you are working on, and then select Confirm.



Figure 6

13. Verify the **VIN** displayed is correct for the vehicle you are working on, and then select **Confirm**.

e Back	Home	Print Screen	Screen Canture	Measureme nt Mode	Recorded Data	() Help	ERT	() 14.6V		×	🔀
S C R	e/programmi Configuratior	ng, 🚺	Ve Conf	ehicle irmation	In	put VIN					4/4
Input VI	N										·
Enter th Accord informa VIN nur	ne VIN num ing to this c ation into C mber corre	ber, and to operation, i ONSULT, \ ctly.	uch "Conf n case of /IN numb	irm". specified er you inp	operation ut is saved	that requ I as file r	ires to s name. T	ave EC herefor	U e, con	firm	
	WISSAM Build Contain C	WOTOR COLID JAPAN	VISAN M	NTOR IBERICA, S.A. ITUD123456 Ni Ni Ni Ni Ni Ni Ni Ni Ni Ni	【JN16AUJ32201 要在5 友認期 要生人者 友認期 者 使定功 制造日 象玩 期21篇日 象玩 制造日 用 型系 素 风汽 年 有 膜 公	23456 1997 1997 1997 1997 1997 1997 1997 199		à			
VIN (1	7 or 18 digi	ts) XX	xxxxx	xxxxx	xxxx	xx					
) 	Confirm

Figure 7

- 14. Select **EV/HEV**.
 - Scroll to page 2 to select **EV/HEV**.

Back Home Print Screen Captur	ne Messurement Mode Recorded Help ERT	
Re/programming, Configuration	Input VIN System Selection	Operation Selection 5/6
ystem Selection		
Touch "system". In case ECU you want to operate is not lit	sted below, the vehicle or model year might	be selected wrong.
LANE CAMERA	BRAKE	CHARGER/PD MODULE
SHIFT	Side radar (Rear left)	TELEMATICS
EV/HEV	VSP	HVAC
AIR BAG	ICC/ADAS	AVM
HV BATTERY	Side radar (Rear right)	CHASSIS CONTROL
	*	2/3

Figure 8

15. Select Reprogramming.

Operation Selec	ction		
Touch "Open In case over In case replac	ation". write current ECU, touch cement of ECU, select an c	"Reprogramming". operation in REPLACE ECU category.	
REPROGRA	AMMING	·	
		in case you want to reprogramming ECU	touch "Reprogramming".
	programming		
Re	programming		
Replaceme	programming		
Replaceme Programmin	eprogramming ant OF ECU Ig (Blank ECU)		
Replaceme Programmin F	eprogramming ent OF ECU Ig (Blank ECU) Before ECU Replacement	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sav to CONSULT.
Replaceme Programmin F	eprogramming ent OF ECU Ig (Blank ECU) Before ECU Replacement	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is say to CONSULT.

Figure 9

- 16. Find the VCM **Part Number** and write it on the repair order, and then select **Save**.
 - This is the current Part Number (P/N).

Back Home Print Screen Capture	Measurement Mode Data 00 Help CRT 12.0V VI MI	🔀
Configuration Opera	ation Selection Save ECU Data	7/7
Save ECU Data		
Touch "Save" to save operation log and th Operation log helps to restart next operatio after operation has completely finished.	e current part number as listed below to CONSULT. n by selecting suitable operation log. Operation log is erased	
File Label	****]
Operation	REPROGRAMMING	-
System	EV/HEV	
Part Number	xxxxxxxx	
Vehicle	ZE1LEAF	
VIN	*****	
Date	xxxxxxxxxxx	Save

Figure 10

- 17. Compare the Part Number you wrote down in step 16 on page 7 to the numbers in the **Current VCM Part Number** column in **Table A** below.
 - If there is a <u>match</u>, proceed to step 18 on page 9 to continue the reprogramming procedure.
 - If there is <u>not a match</u>, reprogramming is not needed. Skip to **CLAIMS INFORMATION** on the last page.

Model Year	Current VCM Part Number: (237D0-*****)
	5SA2A, 5SA2B
	5SA3A, 5SA3B
	5SA4A, 5SA4B
2018	5SA5A, 5SA5B
	5SE0A, 5SE0B
	5SE1A, 5SE1B
	5SE2A, 5SE2B
	5SG0A, 5SG0B, 5SG0C, 5SG0D
	5SG1A, 5SG1B, 5SG1C, 5SG1D
	5SG2A, 5SG2B, 5SG2C, 5SG2D
2010 2022	5SG3A, 5SG3B, 5SG3C, 5SG3D
2019-2023	5SG4A, 5SG4B, 5SG4C, 5SG4D
	5SG5A, 5SG5B, 5SG5C, 5SG5D
	5SG6A, 5SG6B, 5SG6C, 5SG6D
	5SV0A, 5SV1A, 5SV2A, 5SV3A

Table A

18. Review the precaution instructions.

HINT: Use the arrows (if needed) to view and read all the precautions.



Figure 11

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



Figure 12

20. Select Next.

Back Home Print Screen Sc	reen Measurement Mode	Recorded Data	12.0V VI MI	-
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition	9/10
Select Program Data				
Confirm the detail listed below, and to -In case the screen to select reprog/pro vehicle. -In case the part number after reprogra selection, VIN and reprog/programming	uch "Next" if OK. ogramming data is N umming is wrong, to g data in CONSULT.	IOT displayed, only one dat uch "Re-select", and confirm	a is available for this n the vehicle	
Part Number After Repro/programming	1	*****		
Current Part Number		*****		1
Vehicle		LEAF ZE1		
VIN		****	xxxxx	
System		EV/HEV		1
Other Information		ZE1 VCM		Re-select
Expected time to finish re/programming	1	15min		
			Ţ	Next

Figure 13

- 21. Confirm the battery voltage result is **OK**, and then select **Next**.
 - If the battery voltage result is NG, verify the battery maintainer/smart charger is turned ON and is securely connected to the 12V battery.



Figure 14

- 22. Confirm all items listed have a judgement of **OK**, and then select **Start**.
 - The reprogramming process will take approximately 15 minutes.
 - If any of the items shown in Figure 15 display a status of NG, verify the battery maintainer/smart charger is turned ON and is securely connected to the 12V battery, and ensure the vehicle is NOT in Ready mode.

kck Re/programming,	Screen Capture	urement fode Co	Help	14.4V VI MI	
Configuration	Select Progra	m Data	Condition		10/
irm Vehicle Condition					
nfirm the vehicle condition as	all items indicate	the vehicle cor	dition correctly.	cle condition is	
of range, reprogramming or p	programming may	stop.	start . In case the ven	cie condidott is	
Monitor Item	Value	Unit	Judgment	Condition	
Battery Voltage	14.4	v	ок		
					-
VCM status	Stop	_	ок		
					N
			1	/1	Start

Figure 15

- 23. Once the screen in Figure 16 displays, the reprogramming is complete. Select Next.
 - If the screen in Figure 16 does NOT display, indicating that reprogramming did <u>not</u> complete, refer to **VCM Recovery** on page 15.



24. Press the power switch one (1) time to turn the EV system OFF (Figure 17), and then go to step 25 immediately.

Hanck.	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	() Help	ERT	14.5V	Yil vi	×M	
50	Re/programming, Configuration		Confi	irm Result	Eras	e All DTCs		Print Operatio	Result n Com	/ plete	15/16
Erase All	DTCs								_	_	
Accord 1 Tur	ling to the instruc	tion below,	erase All [DTCs. F position.				(Contraction of the second	and	
	Current status o switch	fignition		ON					0	N	OFF
				_							

Figure 17

- 25. Press the power switch two (2) times to turn the EV system back on (Figure 18).
 - C-III plus will automatically proceed to **Erasing DTCs**.
 - If the current status of the ignition switch displayed on the screen differs from the status of the actual vehicle ignition switch, select **Next** to go to the next screen.

Back	Home	Print Screen	Screen Capture	Measurement Mode	Recorded Data	() Help	ERT	14.6V	Yil VI	×		
50	Re/programming Configuration		Conf	irm Result	Eras	e All DTC		Print Operatio	Result n Com	/ plete	15/16	
Erase All	DTCs											_
Accordi 1 Tur	ing to the instru m ignition switch	action below,	erase All I	DTCs. All DTCs are	automatical	y erased.				N N N N)
lf th	Current status switch	of ignition h is of ignition	switch di	OFF	he screen o	differs from	m the sta	atus of			UN	
the	actual venicle	ignition swit	cn, wuch	NEAT TO G	o to the he	a screen.					Next]

Figure 18

26. Select Confirm.

Back Home Print Screen	Screen Mode Mode	-
Configuration	Erase All DTCs Print Result / Operation Complete	16/16
Print Result / Operation Complete		
All tasks are completed. Confirm LA In case CONSULT can NOT immedia temporally storage of this page. Tour Data Folder" on desk top, and open t	N access, touch "Print" to print out this page. tely access to LAN or printer, Screen Capture function is available for ch "Screen Capture", and save it. Screen capture data is in "CIII plus he folder named "ScreenImages".	
Part number after Reprog/programming	xxxxxxxxx	
Part number before Reprog/programming	xxxxxxxx	
Vehicle	ZE1 LEAF	
VIN	****	Print
System	EV/HEV	
Date	*****	Other Operation
	1/1	Confirm

Figure 19

27. Select Home.



Figure 20

28. Disconnect the battery maintainer/smart charger from the vehicle.



29. Select Diagnosis (All Systems) and perform System Call.

Figure 21

- 30. Follow the on-screen instructions to **Erase All DTCs**.
 - Verify all DTCs erase normally.
- 31. Turn the EV system OFF.
- 32. Disconnect the VI from the DLC.

VCM 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 22:

- Check battery voltage (12.0 V – 15.5 V).
- EV system is ON (Not Ready).
- External Bluetooth® devices are OFF.
- All electrical loads are OFF.
- Select **Retry** and follow the on screen instructions.
- <u>Retry may not go through on</u> <u>first attempt and can be</u> <u>selected more than once</u>.

reprograms	Cordin Read	1313
onfirm Result		1010
Reprogramming or progeriming is not o operation on his ECU Touch "Retry" to retry reprogramming or	ompleted programming programming	R
Part number after Repropprogramming	****	
Part number Sefore Reprogiprogramming	ххххххххх	
Vehicle	хххх	-
ŲIN.	*****	
System	VCM	
Døte	*****	Petry
		1
Error Gode		

Figure 22

If reprogramming does <u>not</u> complete and the "X" icon displays, as shown in Figure 23:

- Check battery voltage (12.0 V 15.5 V).
- CONSULT A/C adapter is plugged in.
- EV system is ON (Not Ready).
- Transmission is in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select **Home**, and restart the reprogram procedure from the beginning.

and on David		
Reprogramming a refoomplated proper Print this screen as needed. Confirm CC with precedure. -Restart CONSULT with disconnecting V	N WSULT version. IGN/Fower switch position, shift position and etc Lonse, and start the reprogramming again	8
Part manuerafter Reprog/programming	****	
Current part number	xxxxxxxxx	
Valscle	хххх	
VIN	*****	
System	VCM	
Date	xxxxxxxxx	
and in succession in the succession of the succe		[
anomation.		

Figure 23

CLAIMS INFORMATION

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
R23A6	Reprogram Vehicle Control Module (VCM)	R23A60	0.5
	Reprogram Not Needed	R23A61	0.3

Submit a "CM" line claim using the following claims coding:

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
July 17, 2023	NTB23-057	Original bulletin published
August 1, 2023	NTB23-057A	NOTICE about only using VI2 for this repair removed, and references to "VI2" changed to "VI"