

EC18-032

Reference:

Date: December 3, 2018

VOLUNTARY RECALL CAMPAIGN 2019 ALTIMA; ENGINE CONTROL MODULE

NTB18-082

CAMPAIGN ID #: R1813 APPLIED VEHICLES: 2019 Altima (L34)

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

INTRODUCTION

Classification:

Nissan is conducting this voluntary recall campaign on certain specific model year 2019 Altima vehicles. The Engine Control Module (ECM) will be inspected, and if necessary, reprogrammed. This action will resolve a potential false Malfunction Indicator Lamp (MIL) issue. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R1813 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 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.

Nissan Bulletins are intended for use by gualified 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

REPROGRAM THE ECM

CAUTION: The engine cooling fans will run throughout the reprogramming procedure (this is normal). The <u>GR8 Battery Station must be used</u> and set in <u>ECM Power Supply Mode</u>.

IMPORTANT: Before starting, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All CONSULT-III plus (C-III plus) software updates (if any) have been installed.
- The CONSULT PC is connected to the Internet (Wi-Fi or cable).
- Use C-III plus to perform Self Diagnosis for all systems.
 - If there are any DTCs; diagnose, perform repairs, and erase DTCs before continuing.

NOTE:

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- Take the vehicle for a 10 minute drive in order to meet the following Idle Air Volume Learn (IAVL) conditions:
 - Engine coolant temperature: 70 -100°C (158 - 212°F)
 - Battery voltage: More than 12.9V (At idle)
 - Transmission: Warmed up
- After reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.



Figure 1

CAUTION:

- Connect the GR8 to the 12V battery and select <u>ECM Power Supply Mode</u>. If the vehicle battery voltage goes below <u>12.0V or above 15.5V</u> during reprogramming, <u>the ECM may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads such as exterior lights, interior lights, HVAC, blower, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc. If a vehicle electrical load remains ON, <u>the ECM may be 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 ECM may be damaged</u>.
- Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth[®] signal waves are within range of the CONSULT PC and plus VI during reprogramming, reprogramming may be interrupted and <u>the ECM may be damaged</u>.

1. Make sure the GR8 Battery Station is connected to the 12V battery, and then select **ECM Power Supply Mode**.

CAUTION: The engine cooling fans will run throughout the reprogramming procedure (this is normal). The <u>GR8 Battery Station must be used</u>, and **ECM Power Supply Mode** selected.

- 2. Connect the plus Vehicle Interface (plus VI) to the vehicle.
- 3. Start CONSULT-III plus (open C-III plus).
- 4. Turn ON the ignition (with engine OFF).
- 5. Wait for the plus VI to be recognized / connected.
 - Serial number will display when the plus VI is recognized / connected.
- 6. Select Re/programming, Configuration.



Figure 2

- 7. Use the arrows (if needed) to view and read all precautions.
- 8. Check the box confirming the precautions have been read.
- 9. Select Next.



Figure 3

- 10. If the screen in Figure 4 does not display, select the Automatic Selection (VIN) tab.
- 11. Make sure VIN or Chassis # matches the vehicle's Vehicle Identification Number (VIN).
- 12. If the correct VIN is displayed, select **Confirm**.

Back Home Print Screen Screen Capture Configuration Vei	Messimment Recorded Heip ERT 14.5V VI MI Note Selection Vehicle Confirmation	
lease confirm selected information and ouch "Change".	touch "Confirm". In case you want to select another vehicle,	
/IN or Chassis #	1N4BL4DV6KXXXXXX	
/ehicle Name :	ALTIMA	
fodel Year	2019MY	
	1/1	
		Change

Figure 4

13. Select Confirm.

Image: Back Image: Back	
Configuration Vehicle Confirmation	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.	
VIN (17 or 18 digits) 1N4BL4DV6KCX005X3C	
	Confirm

Figure 5

14. Select ENGINE.



Figure 6

15. Select Reprogramming.

Operation Selection		
Touch "Operation". In case over write current ECU, touch In case replacement of ECU, select an o	"Reprogramming". speration in REPLACE ECU category.	
REPROGRAMMING	In case you want to reprogramming FCU	touch "Reprogramming"
-		
Reprogramming	J	
Reprogramming Replacement OF ECU Programming (Blank ECU)	J	
Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sav to CONSULT.
Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement VEHICLE CONFIGURATION	After ECU Replacement	Touch "Before ECU Replacement", Operation log with part number is sav to CONSULT.

Figure 7

- 16. When the screen in Figure 8 displays, confirm this bulletin applies as follows:
 - a. Find the ECM **Part Number** and write it on the repair order.

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

Configuration	seration Selection Save ECU Data	7/7
ve ECU Data		
ouch "Save" to save operation log and peration log helps to restart next opera fter operation has completely finished.	I the current part number as listed below to CONSULT. tion by selecting suitable operation log. Operation log is erased	
ile Label	1N4BL4DV6KC \$\$\$\$78xx	1
peration	REPROGRAMMING	1
	ENCINE	
ystem	Enome	
ystem art Number		-
ystem art Number		-
ystem art Number 🚽	LIGHE \$XXXXXXXXX LIGHE 1N4BL4DV6KC \$\$\$\$\$\$\$XXX	

Figure 8

- b. Compare the P/N written down to the P/Ns in the **Current ECM Part Number** column in **Table A** below.
- If there is a <u>match</u>, continue with the reprograming procedure Proceed to step 17.
- If there is <u>not a match</u>, reprogramming is not needed or it has already been done. Proceed to **CLAIMS INFORMATION**, "Does Not Require ECM Reprogram".

Table A

MODEL	CURRENT ECM PART NUMBER: 23710 -
	6CA7A, 6CA7B, 6CA7C
	6CA9A, 6CA9B, 6CA9C
2019 Altima	6CB5A, 6CB5B, 6CB5C
	6CB8A, 6CB8B
	6CC2A, 6CC2B

17. Select Save.

Back Home Print Screen Capture	Measurement Mode Recorded Data Help ERT 14.6V VI MI	
Re/programming, Configuration	ration Selection Save ECU Data	7/7
ave ECU Data		
Touch "Save" to save operation log and the Operation log helps to restart next operation after operation has completely finished.	he current part number as listed below to CONSULT. on by selecting suitable operation log. Operation log is erased	
File Label	1114B0x4D016H60100672	
Operation	REPROGRAMMING	
System	ENGINE	
Part Number	x>207/1836/296/CX	
	L34ALTIMA	
Vehicle		
Vehicle VIN	WK480x4000672	
Vehicle VIN Date	18/08/00X 8.2:07X0X/P M	

Figure 9

- 18. Use the arrows (if needed) to view and read all precautions.
- 19. Check the box confirming the precautions have been read.
- 20. Select Next.



Figure 10

21. Read Current Part Number and Part Number After Reprogramming. NOTE: <u>The Current Part Number and Part Number After Reprogramming</u> will be the same.

22. Select Next.

Image: Back Image: Back	Measurement Mode Data Per Provided Help ERT 14.6V VI MI	
Re/programming, Configuration	recaution Select Program Data Confirm Vehicle Condition	9/10
elect Program Data		
Confirm the detail listed below, and touch " -In case the screen to select reprog/program vehicle. -In case the part number after reprogrammin selection, VIN and reprog/programming data	Next" if OK. mining data is NOT displayed, only one data is available for this ing is wrong, touch "Re-select", and confirm the vehicle in CONSULT.	
Part Number After Repro/programming <	RATIONARRIC These nu	i <u>mbers</u> be
Current Part Number <	THE S	AME
/ehicle	ALTIMA L34	<u>AME</u>
Current Part Number < Vehicle VIN	ALTIMA L34	AME
Current Part Number Vehicle VIN System	ALTIMA L34 IN4BL4DV61000008873xx ENGINE	
Current Part Number Vehicle VIN System Other Information	ZEX X0:-RESEC THE S. ALTIMA L34 1N4BL4DV6KXXXX ENGINE (023)_NAM_2WD_T3B30_OBD‡U_ICC_FEB_LDP_P-FEB_TJP_SSA	AME Re-select
Current Part Number Vehicle VIN System Other Information Expected time to finish re/programming	ZEX X0:-RESIDE THE S. ALTIMA L34 1N4BL4DV6600008XXX ENGINE (023)_NAM_2WD_T3B30_OBD‡U_ICC_FEB_LDP_P-FEB_TJP_SSA XXXX20XMXX XXXX20XMXX	Re-select

Figure 11

IMPORTANT:

- In some cases, more than one new part number for reprogramming is available.
 - > In this case, the screen in Figure 12 displays.
 - Select and use the reprogramming option that does not have the message "Caution! Use ONLY WITH NTBXX-XXX".
- If the screen below displays as blank (no reprogramming listed), it means there is no ECM reprogramming available for this vehicle. Proceed to CLAIMS INFORMATION, "Does Not Require ECM Reprogram".

Home Print Scre	en Screen Messa ernert Recorded Data	Help 11.8V VI	
Re/programming, Configuration	Precaution Selec	t Program Data Confirm Vehicle Condition	
ct Program Data			
ouch and select the reprog/p case no reprog/programmin prog/programming data in C System	programming data listed below. g data is listed below, confirm the veh DNSULT. ENGINE	nicle selection, VIN and	
Current Part Number	Part Number After Repro/programm	ing Other Information	
xxxxxx-xxxxxxx xxxxxxx-xxxxxxx	XXXXXXX-XXXXXXX XXXXXXX-XXXXXXXX	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	x x
			Next

Figure 12

- 23. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).
- 24. Select Next.

CAUTION: Battery voltage must stay between **12.0 and 15.5 Volts** during reprogramming or ECM reprogramming may be interrupted and the <u>ECM may be damaged</u>.



Figure 13

25. Make sure **OK** is highlighted **green** in the **Judgment** column for ALL monitored items, and then select **Start**.



Figure 14

26. Select USA/CANADA Dealers.

27. Select OK.



Figure 15

NOTE:

- The above screen 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 16 will display.

Office operation screen	The Desired Taxas The of the Asso
Offline menu	
Touch the required operation.	
Internet connection	Connect to the internet.
Manual input	Enter manually.
Home	Back to Home screen.

Figure 16

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

28. 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 User Name and Password, contact your Service Manager.

29. Select Submit.

Back Itome Print Screen	Screen Capture Measurement Mode Recorded Data	Help ERT	14.6V VI MI	
Configuration	Confirm Vehicle Condition	Authentication	Transfer Data	11/12
User Authentication				
SECONEAUTH				
Daimler WS				
	Please enter your UseriD below.			
	Usemame:			
	Submit			
	COMPTEN			
Rettations				
integrati Loguin				SECUREAUTH

Figure 17

30. Wait for both progress bars to complete.



Figure 18

31. When the screen in Figure 19 displays, the reprogramming is complete.

NOTE: If the screen in Figure 19 does <u>not</u> display (reprogramming does <u>not</u> complete), refer to the information on the next page.

- 32. Disconnect the GR8 Battery Station from the vehicle.
- 33. Select Next.

the second	Refprogramming. Configuration	t Screen	Meisurenint Mode	Recorded Data	Help.	(14.7V VI	× =	13/13
Confirm F	Result							
Reprogu	amming or progr Next" to continue	amming is compl operation.	eted.	6	50			
								Next



NOTE:

- In the next steps, starting on page 16, the following must be performed: Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC Erase.
- These operations are required before C-III plus will provide the final reprogramming confirmation report.

ECM Recovery

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

If reprogramming does <u>not</u> complete and the "!?" symbol displays as shown in Figure 20:

- Check battery voltage (12.0 15.5V).
- Ignition is ON, Ready Mode is OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>Retry</u> and follow the on screen instructions.

NOTE: **Retry** may not go through on the first attempt and can be selected more than once.

	WN.	Unicipin	Country Jacon
Ban Hene Pitt Scorer	atter Made	New Poly	12.7V VI MI
So renginter	Same Fall	Contine Based	13/13
Confirm Result			
Reprogramming or programming is not operation on this ECU. Touch "Reny" to retry reprogramming o	completed propertly, bu r programming.	it you can retry reprogram	
Part number after			
Reprogramming		XXXXXXX	
Reprogramming Part number before Reprogramming		XXXXXXXX	
Reprogramming Part number sefure Reprogramming Vehicle		XXXXXXX XXXXXXXX XXXXXXXX	
Reprogramming Part number before Reprogregamming Vehicle VIN:		XXXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXXXXX	x.
Retring/pragramming Part number zehre Reprogragsamming Vehicle Villo System		XXXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXXX	x.
Recregivingterming Partinuties tehre Recregiversamming Vehicle VIN System Dete		XXXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXX XXXX	X: X: XX
Recroprisolamming Partinumber tehne Recropresentamming Vehicle VIN System Dete Error Code		XXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXXX XXXX	X: X: Bety

Figure 20

If reprogramming does <u>not</u> complete and the "X" symbol displays as shown in Figure 21:

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

CONSULT LIBUS W	VIN Vohide (GABHQA)	County Japan
a Polyagements	Court And State	
onfirm Rosult		
Reprogramming a not completed p Print this screen as needed. Confir with procedure. Restair CONSULT with disconnect	openty m CCNSULT version, IGN/Fower switch position, shift position ng VLonse, and start the reprogramming again	n and atc
Part number after Reprogramming	хжжжж	
Current part number	жжжжж	
Current part number Veitscle	xxxxxx xxxxxx	
Cument part number Voltsele VIN	XXXXXXX XXXXXXX XXXXXXXXX XXXXXXXXXX	
Current part number Vehiscle VIN System	XXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXX	
Current part number Velscle VIN Syssori Dane	XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXX	
Currient part eurober Vehicele VIN System Internetion	XXXXXXXX XXXXXXXX XXXXXXXXX XXXXXXXXX XXXX	

Figure 21

34. Perform the Throttle Valve Closed Position procedure.

• Follow the on-screen instructions (Figure 22, steps **1**, **2**, and **3**) to complete the procedure.

Back Rome Print Screen	Screen Capture	Help ERT	14.6V VI MI	
Re/programming, Configuration	Confirm Result	e Valve Closed Position	Idle Air Volume Learning	14/17
Throttle Valve Closed Position				
Operate according to the following p	rocedures.			
1 Make sure that accelerator pedal is down of 10 seconds starts.	fully released, turn ignition ON, an	d turn ignition OFF.	And then the count	
Current status of ignition switch	ON			
Time				
2 Make sure that throttle valve moves	a during count down of 10 seconds	by confirming the o	perating sound.	
3 Turn Power switch / ignition SW to	the ON position, and touch "Next"	to go to next operati	on.	Next
,				

Figure 22

35. Perform Idle Air Volume Learning (IAVL).

- a. Start the engine and let it idle.
- b. Select Next.

Back Rome Print Screen	Screen Capture	Recorded Data	Help	(14.6V VI VI	x = _ X
Re/programming, Configuration	Throttie Valve Clos Position	ed Idle Air Lear	Volume	Accelerator Peda Closed Position	15/17
Idle Air Volume Learning					
After replacing ETC, ECM or VV In case idle speed or ignition timi	EL ECU/actuator sub a ing is out of specificati	assy. on.	Waitir	ng for your operat	Next
	1				
CLOSED LOOP					
LOAD SIGNAL					
AIR COND SIG					
P/N POSI SW					
HEATER FAN SW					
VHCL SPEED SE				km/h	
			3	1/2	

Figure 23

c. Select Start.

Back Home Print Screen	Screen Capture	Recorded Data	14.6V VI MI	-
Re/programming, Configuration	Throttle Valve Closed Position	Idle Air Volume Learning	Accelerator Pedal Closed Position	15/17
Idle Air Volume Learning				
After replacing ETC, ECM or VVEL In case idle speed or ignition timing	ECU/actuator sub ass is out of specification.	<i>I.</i>		Start
Current status		Waitir	ng for your operation]
Monitor Item				_
COOLANT TEMP/S		32	°C	
BATTERY VOLT		14.08	V	
			2/2	

Figure 24

- d. Wait for IAVL to complete.
 - The screen in Figure 25 will display.

Back Home Print Screen	Screen Capture Mode Recorded Data Deta	
Re/programming, Configuration	Throttle Valve Closed Idle Air Volume Position Learning	Accelerator Pedal Closed Position 15/17
Idle Air Volume Learning		
After replacing ETC, ECM or VVEL In case idle speed or ignition timing	ECU/actuator sub assy. is out of specification.	Stop
Current status		EXECUTING
Monitor Item		
COOLANT TEMP/S	7	1 °C
BATTERY VOLT	14.0	8 V
1		2/2

Figure 25

NOTE:

- Listed below are the specific conditions required for IAVL to complete.
- If IAVL does not complete within a few minutes, a condition may be out of range.
- Verify the following specific conditions are met:
 - > Engine coolant temperature: $70 105^{\circ}C(158 221^{\circ}F)$
 - Battery voltage: More than 12.9V (At idle)
 - Shift selector lever: P or N
 - > Electric load switch: OFF (Air conditioner, headlamp, rear window defogger)
 - Steering wheel: Neutral (Straight-ahead position)
 - > Vehicle speed: Stopped
 - Transmission: Warmed up
 - ATF TEMP SEN in DATA MONITOR mode of the CVT system indicates less than 0.9V

e. Select Next.

Back Reprogramming.	Herry Recorded Relation of the second	
Ile Air Volume Learning	Closed Position	16/17
After replacing ETC, ECM or VVEL ECU/actuator sub In case idle speed or ignition timing is out of specifica	o assy. Ition.	Retry
Current status	COMPLETE	
Monitor Item		
GUULANT TEMP/S	72°C	
		Next

Figure 26

36. Follow the on screen instructions to complete the **Accelerator Pedal Closed Position Learning** procedure.

Configuration	Idle Al/ Volume Learning	Accelerator Pedal Closed Position	Confirmation Start up Engine
Accelerator Pedal Closed Positi	on		
1. Turn ignition switch to the 2. Turn ignition switch to the 3. Repeat the procedure (1) a 4. Turn ignition switch to the C	OFF position, and hold it for ON position, and hold it for nd (2) twice. OFF position.	10 seconds or more. 2 seconds or more.	
Current status of ignition switch	ON		
Current status of ignition switch Time (sec)	ON		
Current status of ignition switch Time (sec) IGN SW ON	0N 2 sec	2 8ec	2 sec

Figure 27

- 37. Confirm engine start-up and idle:
 - Perform steps 1 and 2, and then select **Next** (Figure 28).

Image: Back
Relprogramming, Configuration Configuration
Confirmation Start up Engine
Operate according to the following procedures.
1 Conform that the engine starts normally.
2 Conform the engine keeps idling normally
3 Tauch "Next" to go to payt operation
Precautions
In case engine will NOT starts, and in case engine can NOT keep idling normally, complete all of the operation at once, and perform necessary diagnosis and repair.

Figure 28

38. Erase all DTCs as follows:

- a. Turn the ignition OFF
- b. Turn the Ignition ON.
- c. Wait for the DTC erase procedure to complete.

Back Home Print Screen	Creen apture	ded a	14.5V VI MI	🔀
Re/programming, Configuration	Confirmation Start up Engine	Erase All DTCs	Print Result / Operation Complete	18/19
Erase All DTCs				
According to the instruction below, err 1 Turn ignition switch / power switch t	ase All DTCs. o the OFF position.			
Current status of ignition switch	ON		ON	OFF
Tur	n ignition O	N > OFF >	> ON	

Figure 29

39. Figure 30: Verify the before and after part numbers are the same.

40. Figure 30: Print a copy of this screen (select **Print**) and attach it to the repair order.

41. Select **Confirm**.

Back Home Print Screen Capture Me	easurement Recorded Data Help ERT 12.9V VI	× = _ 🔀
Re/programming, Configuration	DTCs Print Result / Operation Complete	19/19
rint Result / Operation Complete		
All tasks are completed. Confirm LAN access, to In case CONSULT can NOT immediately access temporally storage of this page. Touch "Screen Data Folder" on desk top, and open the folder na	ouch "Print" to print out this page. to LAN or printer, Screen Capture function is available Capture", and save it. Screen capture data is in "CIII pl med "ScreenImages".	for us
Part number after Reprog/programming	2370/93002866X	nese numbers
Part number before Reprog/programming	\$3749-60B60x	THE SAME
Vehicle	L34 ALTIMA	
VIN	1N4BL4DV6KC 100672	Print
System	ENGINE	
Date	1 2/23/2010 2004 PM	Other Operation
	1/1	Confirm

Figure 30

NOTE: If the above screen cannot be printed:

- 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 CONSULT PC. It can be retrieved and printed at a later time.

42. Close C-III plus.

43. Turn the ignition OFF.

44. Disconnect the plus VI from the vehicle (repairs are now complete).

CLAIMS INFORMATION

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
R1813	Reprogram ECM	R18130	0.4 hrs
R1813	Does Not Require ECM Reprogram	R18131	0.3 hrs

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
December 3, 2018	NTB18-082	Original bulletin published
