SERVICE BULLETIN

Classification:

EC16-036a

NISSA

Reference:

December 6, 2016

Date:

2016-2017 ALTIMA; MIL ON WITH A/F RATIO SENSOR DTC(s)

NTB16-117a

This bulletin has been amended. The Parts Information section has been corrected. Please discard previous versions of this bulletin.

APPLIED VEHICLE:	2016-2017 Altima (L33)
APPLIED VIN:	2016: All 2017: Vehicles built before 1N4AL3AP(*)H N 320032 Vehicles built before 1N4AL3AP(*)H C 150786
APPLIED DATE:	Vehicles built before November 1, 2016
APPLIED ENGINE:	QR25DE

IF YOU CONFIRM

One or more of the following DTCs is stored:

- P014C A/F SENSOR1 (B1) (O2 sensor slow response rich to lean bank 1 sensor 1)
- P014D A/F SENSOR1 (B1) (O2 sensor slow response lean to rich bank 1 sensor 1)
- P015A A/F SENSOR1 (B1) (O2 sensor delayed response rich to lean bank 1 sensor 1)
- P015B A/F SENSOR1 (B1) (O2 sensor delayed response lean to rich bank 1 sensor 1)

ACTION

1. Refer to step 6 in the **SERVICE PROCEDURE** to confirm this bulletin applies to the vehicle you are working on.

If this bulletin applies:

- 2. Reprogram the ECM.
- 3. Replace the Air Fuel Ratio (A/F) Sensor 1.

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 <u>entire</u> 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

Reprogram the ECM

NOTE:

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- If you are not familiar with the reprogramming procedure, click here. This will link you to the "CONSULT- III plus (C-III plus) ECM Reprogramming" general procedure.
- 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 A

CAUTION:

- Connect the GR8 to the 12V battery and select ECM Power Supply Mode. If the vehicle battery voltage drops 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.
 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 the ECM 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 during reprogramming, reprogramming may be
 interrupted and <u>the ECM may be damaged</u>.

- 1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
- 2 Start C-III plus.
- 3. Wait for the plus VI to be recognized / connected.
 - The serial number will display when the plus VI is recognized / connected.
- 4. Select Re/programming, Configuration.

VI is recognized	MI -	VIN:- Servern Servern Status Status Status Competition No connection No connection Language Setting	ied Help trans M	systems)	Step 4
	VDR	Figu	re 1		

5. Follow the on-screen instructions and navigate the C-III plus to the screen shown in Figure 2 on the next page.

- 6. When you get to the screen shown in Figure 2, confirm this bulletin applies as follows.
 - A. Find the ECM **Part Number** and write it on the repair order.

NOTE: This is the <u>current</u> ECM Part Number (P/N).

CONSULT-III plus Ver VIN.	Vehicle :	Country : U.S.A.				
Back Rome Print Screen Capture	Messurement Mode	🚓 🏋 🗙 🖿 🔛 🔀				
Configuration	ation Selection	7/7				
Save ECU Data						
Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.						
File Label	File Label XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
Operation	REPROGRAMMING					
6A: <u>Current</u> EC						
Part Number	23710					
Vehicle	x0000000000000					
VIN	xxxxxxxxxxxxxxxxxxxxxx					
Date	11/1/201× 1:22:16 AN	1 Save				
,						

Figure 2

- B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** on the next page.
 - If there is a <u>match</u>, this bulletin <u>applies</u>. Continue with the reprogramming procedure.
 - If there is <u>not a match</u>, this bulletin <u>does not apply</u>. Close C-III plus and refer to ASIST for further diagnostic information.

Table A

MODEL	CURRENT ECM PART NUMBER: 23710-
	9HN4A, 9HN4B, 9HN4C, 9HN4D, 9HN4E
	9HN5A, 9HN5B, 9HN5C, 9HN5D, 9HN5E
	9HN6A, 9HN6B, 9HN6C, 9HN6D, 9HN6E
	9HN7A, 9HN7B, 9HN7C, 9HN7D, 9HN7E
2016 Altima	9HN8A, 9HN8B, 9HN8C, 9HN8D, 9HN8E
with QR25DE	3TY2A, 3TY2B, 3TY2C, 3TY2D, 3TY2E
	3TY3A, 3TY3B, 3TY3C, 3TY3D, 3TY3E
	3TY4A, 3TY4B, 3TY4C, 3TY4D, 3TY4E
	3TY5A, 3TY5B, 3TY5C, 3TY5D, 3TY5E
	3TY9A, 3TY9B, 3TY9C, 3TY9D, 3TY9E
	9HL0A, 9HL0B
	9HL1A, 9HL1B
2017 Altima with QR25DE	9HL2A, 9HL2B
	9HL3A, 9HL3B
	9HL4A, 9HL4B

7. Follow the on-screen instructions to navigate C-III plus and reprogram the ECM.

NOTE:

- In some cases, more than one new P/N for reprogramming is available.
 - ▶ In this case, the screen in Figure 3 displays.
 - Select and use the reprogramming option that <u>does not</u> have the message "Caution! Use ONLY with NTBXX-XXX".
- If you get this screen 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 ASIST for further diagnosis.

IMPORTANT: If C-III plus locks up or freezes at this point or displays "cannot complete reprogramming, CONSULT PC is set up with User Rights. Reprogramming can be completed with Administrator log in", the TOUGHBOOK settings need to be changed so that Users have full access rights. See your Dealership's IT System Administrator for details.

CONSULT-III plus Ver.	VIN:	Vehicle :		Country : U.S.A.
Back Prir	t Screen Capture	Recorded Data	11.8V VI MI	-
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition	9/11
Select Program Data				
	rog/programming data listed b nming data is listed below, cont in CONSULT.		and	
System	ENGINE			
Current Part Number	Part Number After Rep	ro/programming Ot	ther Information	
XXXXXX-XXXXXX	XXXXXX-XXXXXX	xxxxxxxxxx	000000000000000000000000000000000000000	
XXXXXX-XXXXXXX	XXXXXX-XXXXXXX	200000000	000000000000000000000000000000000000000	
			0/0	Next

Figure 3

8. When the screen in Figure 4 displays, reprogramming is complete.

NOTE: If the screen in Figure 4 does <u>not</u> display (reprogramming does <u>not</u> complete), refer to the information on page 8.

- 9. Disconnect the battery charger from the vehicle.
- 10. Select Next.

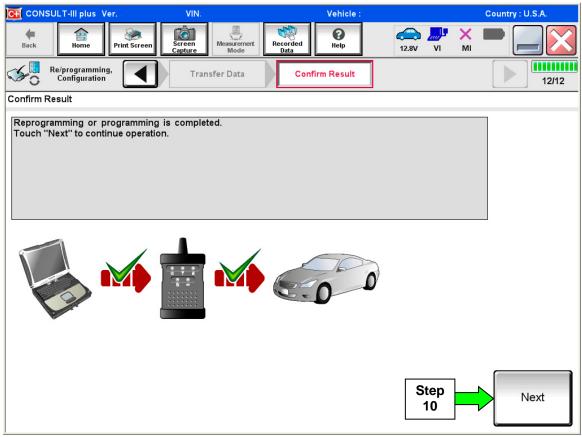


Figure 4

NOTE:

- In the next steps, starting on page 9, you will perform 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 plus VI or shut down Consult III plus if reprogramming does not complete.

If reprogramming does <u>not</u> complete and the "!?" icon displays as shown in Figure 5:

- 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</u> <u>first attempt and can be</u> <u>selected more than once</u>.

CONSULT-II plus Ver	VN	Veticle		Country : Japan
Back Hone Print Screen	Atean Cotkee	Necordiad Data	12.3V VI MI	-
soniglation	Transfer Data	Confirm Resul		1313
Confirm Result				
Reprogramming or programming is no operation on his ECU. Touch "Reity" to reity reprogramming		ut you can retry reprog	/programming	R
Part number after Reprog/programming		284B2-3000	Q.	
Part number before Reprog/programming		284B2-XXXXX		
Vehicle		QASHQAI		
VIN		SJNFDNJ10U10	00000	
System		BCM		
Dote		25/07/2011 16.3	30.00	Retry
Error Code				

Figure 5

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 6:

- 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-IL BUS Ver	VIN.	Vehicle : QASHQAI		County : Japan
Bark Hone Print Stree	e Esseen Measurement	Recorded Help	🚓 🧦 🗙	
Configlation	Travefer Data	Confirm Result		99
Confirm Result				
Reprogramming is not complet -Print this screen as needed. C with precedure. -Restart CONSULT with discon	onfirm CONSULT version, I		ft position and etc	
Part number after Reprog/programming		284E2-XXXXX		
Current part number		284E2-XXXXX		
Vehicle	e QASHQAI			
VIN		SUNFDNJ10U10000	0	
System		BCM		
Date		25/07/2011 16:30:00)	
Information				
Error Code				Print

Figure 6

11. Follow the on-screen instructions to perform the following:

- Throttle Valve Closed Position.
- Idle Air Volume Learn (IAVL).

NOTE:

- > Listed below are common conditions required for IAVL to complete.
- If IAVL does not complete within a few minutes, a condition may be out of range.
- Refer to the appropriate ESM for specific conditions required for the vehicle you are working on.
 - Engine coolant temperature: 70 -100° C (158 212°F)
 - Battery voltage: More than 12.9V (At idle)
 - Selector lever: P or N
 - Electric load switch: OFF (Air conditioner, headlamp, rear window defogger)
 - o Steering wheel: Neutral (Straight-ahead position)
 - Vehicle speed: Stopped
 - o Transmission: Warmed up
- Accelerator Pedal Close Position Learning
- Erase DTCs

Continue to the next page.

- 12. When the entire reprogramming process is complete, the screen in Figure 7 will display.
- 13. Verify the before and after part numbers are different.
- 14. Print a copy of this screen (Figure 7) and attach it to the repair order for warranty documentation.

15. Select **Confirm**.

CONSULT-III plus Ver VIN:		Vehicle :		Country : U.S.A.	
Back Home Print Screen Capture	Measurement Da	orded Help	14.3V VI	× • •	
Re/programming, Configuration	se All DTCs	Print Result / Operation Complete		18/18	
Print Result / Operation Complete					
All tasks are completed. Confirm LAN access, touch "Print" to print out this page. In case CONSULT can NOT immediately access to LAN or printer, Screen Capture function is available for temporally storage of this page. Touch "Screen Capture", and save it. Screen capture data is in "Cill plus Data Folder" on desk top, and open the folder named "ScreenImages".					
Part number after Reprog/programming	Step =	> 23710			
Part number before Reprog/programming	13	> 23710			
Vehicle		****			
VIN		****			_
System		ENGINE	Step	Print	
Date		11/3/201× 2:10:21 AM			J
			Step 15	Confirm	

Figure 7

16. Close C-III plus.

17. Turn the ignition OFF.

18. Disconnect the plus VI from the vehicle.

- 19. Replace the Air Fuel Ratio (A/F) Sensor 1.
 - Refer to the Electronic Service Manual (ESM), section EC Engine Control / REMOVAL AND INSTALLATION / EXHAUST MANIFOLD AND THREE WAY CATALYST / Removal and Installation.

PARTS INFORMATION

SPECIFICATION	DESCRIPTION	PART NUMBER	QUANTITY
50-State	Air Fuel Ratio (A/F) Sensor 1	22693-3TA0A	1
California		22693-3TY0A	1

CLAIMS INFORMATION

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

DESCRIPTION	OP CODE	PFP	SYM	DIAG	FRT
Reprogram Engine Control Module	DE97AA	(1)	76		(0)
Replace One Air/Fuel Ratio Sensor	DE53AA		ΖE	32	(2)

(1) Refer to the electronic parts catalog (FAST) and use the Blank ECM assembly part number (23703-****) as the Primary Failed Part (PFP).

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.