

EC12-04

Classification:

RVICE BULLETIN

Date:

October 3, 2012

# 2009-2010 FRONTIER, XTERRA, AND PATHFINDER; CRUISE CONTROL INTERMITTENTLY TURNS OFF

NTB12-087

**APPLIED VEHICLES:** 

2009 – 2010 Frontier (D40) 2009 – 2010 Xterra (N50) 2009 – 2010 Pathfinder (R51) VQ40 **ONLY** 

### IF YOU CONFIRM:

**APPLIED ENGINE:** 

The cruise control turns off without pressing the brake pedal or using the cruise control switches while driving with the cruise control set.

# ACTION:

- 1. Refer to step 6 in the **SERVICE PROCEDURE** to confirm this bulletin applies to the vehicle you are working on.
- 2. If this bulletin applies, reprogram the ECM.

# **CLAIMS INFORMATION**

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

			-		
DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	DE97AA	HD	32	(2)

 Reference the Repair Order and use the <u>current</u> ECM P/N written down in step 2 of the Service Procedure as the PFP.

(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

**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

#### 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



Figure A

• After reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.

#### **CAUTION:**

- Connect a battery charger to the vehicle battery. If the vehicle battery voltage drops below <u>12.0V or above 15.5V</u> during reprogramming, the ECM may be damaged.
- 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 <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 VI. If Bluetooth® signal waves are within
  range of the CONSULT PC during reprogramming, reprogramming may be
  interrupted and the ECM may be damaged.

- 1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
- 2 Open ASIST on the CONSULT PC and start C-III plus.
- 3. Wait for the plus VI to be recognized / connected.
  - Serial number will display when the plus VI is recognized / connected.
- 4. Select Re/programming, Configuration.



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.V12.12.00 VIN:	Vehicle :	Country : U.S.A.			
Back Rome Print Screen	Messurement Mode Recorded Bata	Y. X. 🖿 🥅 🔀			
Re/programming, Configuration	tion Selection Save ECU Data	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	*****				
Operation 6A: Current EC					
System ENGINE					
Part Number	23710-XXXXX				
Vehicle	xxxxxxxxxxxxxx				
VIN	*****				
Date	*****	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 page 5.
  - 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 Year	Model	Current ECM Part Number: 23710-
		ZL08A, ZL08B, ZL08C, ZL08D
	Pathfinder (R51)	ZL12A, ZL13A
		ZL34A, ZL35A
		ZL00A, ZL00C
		ZL01A, ZL01B, ZL01C, ZL01D
		ZL02A, ZL02C
		ZL03A, ZL03B, ZL03C, ZL03D
	Frontier (D40)	ZL04A, ZL04C
	VQ35	ZL05A, ZL05B, ZL05C, ZL05D
2009	, acc	ZL06A, ZL06C
		ZL07A, ZL07B, ZL07C, ZL07D
		ZL30A, ZL31A, ZL32A, ZL33A
		ZL60A, ZL61A, ZL62A, ZL63A, ZL64A, ZL65A
		ZL66A, ZL67A
		ZL00A, ZL00C
	Xterra (N50)	ZL02A, ZL02C
		ZL04A, ZL04C
		ZL06A, ZL06C
		ZL30A, ZL31A, ZL32A, ZL33A
	Pathfinder (R51)	ZL92A, ZL93A, ZL94A, ZL95A
		ZL92B, ZL93B, ZL94B, ZL95B
		ZZ70A, ZZ73A, ZZ75A, ZZ76A, ZZ79A
		ZZ70B, ZZ73B, ZZ75B, ZZ76B
	Frontier (D40)	ZZ81A, ZZ82A, ZZ83A, ZZ84A, ZZ85A, ZZ87A
2010	VQ35	ZZ88A, ZZ89A
2010		ZZ82B, ZZ85B, ZZ88B
		ZL44A, ZL45A, ZL47A
	Xterra (N50)	ZZ70A, ZZ73A, ZZ76A, ZZ79A, ZZ82A, ZZ85A,
		ZZ88A
		ZZ70B, ZZ73B, ZZ76B, ZZ82B, ZZ85B, ZZ88B
		ZL45A

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.

G CONSULT-III plus Ver.V	12.12.00 VIN:JN1EY1AP1CM	910014 Vehicl	: INFINITI M35h HY51 2012	Country : U.S.A.
Back Prir	t Screen Capture	Recorded Data	11.8V VI	× 🗭 📃 🔀
Re/programming, Configuration	Precaution	Select Program D	ata Confirm Vehicle Condition	9/11
Select Program Data				
Touch and select the rep In case no reprog/prograr reprog/programming data	rog/programming data listed be nming data is listed below, confi in CONSULT.	low. rm the vehicle select	on, VIN and	
System	ENGINE			
Current Part Number	Part Number After Repr	o/programming	Other Information	
xxxxx-xxxxx	xxxxx-xxxxx	xxxxxxx	(XXXXXXXXXXXXXXXXX	C
XXXXX-XXXXX	XXXXX XXXXX	XXXXXXXX		
			0/0	Next

Figure 3

- 8. When the screen in Figure 4 displays, reprogramming is complete.
- 9. Disconnect the battery charger from the vehicle.

#### 10. Select Next.

G CONSULT-III plus Ver.V13.12.00	VIN:JN1AZ4EHXAM501264	Vehicle : 370Z Z34 2010	Country : U.S.A.
Back Back Print Screen	Screen Capture	Help 12.8V VI	M = _ X
Re/programming, Configuration	Transfer Data	nfirm Result	12/12
Confirm Result			
Reprogramming or programming is Touch "Next" to continue operation.	completed.	000	
		Step 10	Next

Figure 4

**CAUTION:** If reprogramming does <u>not</u> complete and the **!?** displays as shown in Figure 5 on page 8:

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

CONSULT-III plus Ver.V14.21.00 VIN:	Vehicle : LEAF ZE0 2011	Country : U.S.A.		
Home Print Screen Capture	Measurement Mode Recorded Data	VI MI 🗭 🔜 🔀		
Re/programming, Configuration	Insfer Data	ele		
Confirm Result				
Reprogramming or programming is not con operation on this ECU. Touch "Retry" to retry reprogramming or pro	npleted properly, but you can retry reprog/programmi	• <b>P</b>		
Part number after Reprog/programming	23710			
Current Part Number	23710			
Vehicle	20000000000			
VIN	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
System	ENGINE			
Date	X0000000000X	Retry		
Other Information	6.26=>6.27			
Error Code	RNDS_CAN_ALL_SC003-5=NR	Print		

Figure 5

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

# Do not disconnect VI or shut down Consult III plus if reprogramming does not complete.

- Check battery voltage (12.0 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine is OFF.
- Transmission 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-III plus Ver.V14.21.00	VIN:-	Vehicle : -		Country : U.S.A.
Back Borne Print Screen	Screen Capture	Recorded Help	12.3V VI	× = _ X
Configuration	Transfer Data	Confirm Result		2/2
Confirm Result				
Reprogramming or programming is reuse anymore. Touch "Home" to back to Home Sc	s not completed proper	rly. ECU has been broken, a Service Manual.	nd impossible to	
Part number after Reprog/programming		23710	- 1	
Current Part Number		23710	_	
Vehicle		xxxxxxxxxxxx		
VIN		X0000000000X		
System		ENGINE		
Date		x00000000000		
Other Information		6.26=>6.27		
Error Code				Print
	5.72			

Figure 6

# NOTE:

- In the next steps, 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.

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 Electronic Service Manual (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)
  - Steering wheel: Neutral (Straight-ahead position)
  - Vehicle speed: Stopped
  - 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**.

Back Forme Print Screen Capture	Measurement Mode	Image: Weight Heip         14.3	D 🔑 🗙   V VI MI	-		
Configuration	ase All DTCs	t Result / on 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 "CIII plus Data Folder" on desk top, and open the folder named "ScreenImages".						
Part number after Reprog/programming	Part number after Step 23710					
Part number before Reprog/programming		23710				
Vehicle	)	000000000000000000000000000000000000000				
VIN	200	000000000000000000000000000000000000000				
System		ENGINE	Step	Print		
Date	11/3	3/2011 2:10:21 AM				
		1/1	Step 15	Confirm		

Figure 7

# 16. Close C-III plus.

- 17. Turn the ignition OFF.
- 18. Disconnect the plus VI from the vehicle.
- 19. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.
  - If the MIL comes ON, go back to ASIST for further diagnostic information.
  - Diagnosis and repairs beyond ECM reprogramming are not covered by this bulletin.