

SERVICE BULLETIN

assification:

EC12-034a

NTB13-001a

February 27, 2013

2013 SENTRA; ENGINE HAS HESITATION OR STOPS RUNNING AT IDLE OR VERY LOW SPEEDS

This bulletin has been amended to include manual transmission to the Applied Transmission table and part numbers to Table A. No other changes have been made to the body of this bulletin.

APPLIED VEHICLE:

2013 Sentra (B17)

APPLIED VIN AND DATE AND TRANSMISSION With CVT Transmission

Built before 3N1AB7AP(*)DL 650298 And before December 14, 2012

Date:

With Manual Transmission

Built before 3N1AB7AP(*)DL 670445 And before January 24, 2013

IF YOU CONFIRM:

- The engine intermittently experiences a small RPM decrease for a short duration or stops running during braking, as the vehicle is coming to a stop.
- The engine intermittently experiences a small RPM decrease for a short duration or stops running when shifting into reverse or drive.
- There is a hesitation/lag or the engine stops running when accelerating from a stop.

ACTION:

- 1. Refer to step 6 in the **SERVICE PROCEDURE** and use the ECM Part Number to confirm this bulletin applies to the vehicle you are working on.
- 2. If this bulletin applies, reprogram the **ECM** <u>first</u> and if applicable the **TCM**.
 - Some vehicles may only require the ECM to be reprogrammed and may not require the TCM to be reprogrammed.
 - Use Table A on page 6 to determine if TCM reprogramming is applicable.
 - Refer to Claims Information on next page.

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.

CLAIMS INFORMATION

DESCRIPTION	OP CODE	PFP	SYM	DIAG	FRT
REPROGRAM ENGINE CONTROL MODULE	DE97AA	(1)	ZE	32	(2)

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

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

And (if required on the same repair line)

DESCRIPTION	OP CODE	PFP	SYM	DIAG	FRT
REPROGRAM A/T CONTROL UNIT	JE99AA	(1)	ZE	32	(2)

(1) Reference the repair order and use the TCM part number written down in step 6 of the Service Procedure.

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

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SERVICE PROCEDURE

- This procedure will require reprogramming of the ECM first, and for some vehicles the TCM; which means most steps in this procedure may need to be done <u>twice</u>.
- 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) Reprogramming" general procedure.

Preparation for Reprogramming

- 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

NOTE:

- After ECM reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn (IAVL), and Accelerator Closed Position.
- The above conditions are required for the IAVL to complete.

CAUTION:

- Connect a battery charger to the vehicle battery. The vehicle battery voltage must stay between <u>12.0V and 15.5V</u> during reprogramming, <u>or the ECM/TCM may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads.
 If a vehicle electrical load remains ON, <u>the ECM/TCM 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/TCM 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/TCM may be damaged</u>.

- 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.

	CONSULT-III plus Ver.V12.12.00	VIN:-	Vehicle : -	Country : U.S.A.	
	Back Home Print Screen	Screen Measurement Re	scorded Data		
	Connection Status		Diagnosis Menu		
	Serial No.	Status	Diagnosis (On	ie System)	
Step 3: VI is recognized	VI 2300727 N	connection	Diagnosis (All	Systems)	
	MI -	\bigotimes			
		No connection	Re/programmi	ing, Configuration	L Step
	Select VI/MI		Immobilizer		
	Application Setting	ABC Language Setting	Maintenance		
	VDR				

Figure 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 or TCM **Part Number** and write it on the repair order.

NOTE: This is the <u>current</u> ECM or TCM Part Number (P/N). ECM preprogramming must be performed first.

CONSULT-III plus Ver.V12.12.00 VIN:	JN1EY1AP1CM910014	Vehicle : INFINITI M35h HY51 2	012 Country : U.S.A.		
Back Home Print Screen Capture	Measurement Mode	Image: Weight Heip Image: Weight Heip	× • • • •		
Re/programming, Configuration	tion Selection	ECU Data	717		
Save ECU Data					
Touch "Save" to save operation log and th Operation log helps to restart next operation after operation has completely finished.			sed		
File Label	ul hiri i	i ya APA 01/19 14004 4			
Operation 6A: Current F		PROGRAMMING			
System		ENGINE			
Part Number		23740=1M(00A			
Vehicle					
VIN		8 14 AIP # OM 8 1804 4 4			
Date	11/1	/2011 1:22:16 AM	Save		

Figure 2

- B. Compare the P/N you wrote down to the numbers in the **Current ECM** or **TCM Part Number** column in **Table A** on next page.
 - If there is a **match**, this bulletin **applies**. Continue with the reprogramming procedure.
 - If there is **not a match**, reprogramming **does not apply**. Make sure to check both ECM and TCM for a match.

Table A

ECM

MODEL	CURRENT ECM PART NUMBER: 23710-
	3SB0A
	3SG2A
2013 Sentra	3SA0B, 3SA0A
	3SA2C, 3SA2B, 3SA2A
(B17)	3SG3C, 3SG3B, 3SG3A
	3SA4C, 3SA4B, 3SA4A
	3SA5C, 3SA5B, 3SA5A
	3SA6B, 3SA6A
	3SA8C, 3SA8B, 3SA8A

ТСМ

MODEL	CURRENT TCM PART NUMBER: 31036-
2013 Sentra	3SR0A
(B17)	3SG0A
(ВТ7)	3SH0A

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

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.

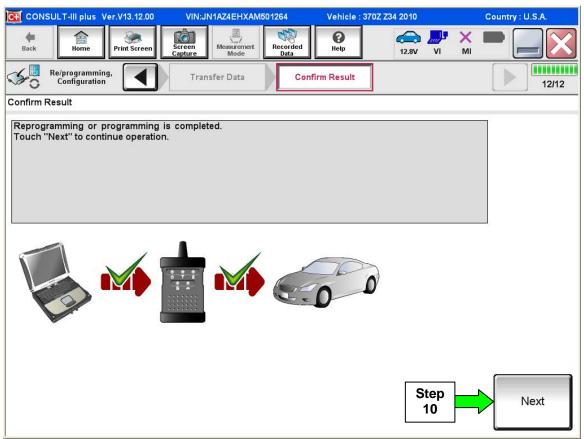
CONSULT-III plus Ver.V	12.12.00 VIN:J	N1EY1AP1CM910014		TI M35h HY51 2012	Country : U.S.A.
Back Home Prin	mt Screen Capture	Measurement Mode	P Help		
Re/programming, Configuration	Pre	ecaution	: Program Data	Confirm Vehicle Condition	9/11
Select Program Data					
Touch and select the rep In case no reprog/progran reprog/programming data	mming data is listed		icle selection, VIN	and	
System	ENGIN	E			
Current Part Number	Part Nu	mber After Repro/programm	ing O	ther Information	
XXXXX-XXXX XXXXXXXXXXXXXXX		xx-xxxxx (
XXXXX-XXXX	x xxx	xx-xxxxx			
					Next
				010	

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 not complete), refer to the information on the next page.

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





NOTE:

- In the next steps (page 10):
 - For ECM reprogramming you will perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.
 - > For TCM reprogramming, only DTC erase is needed.
- These operations are required before C-III plus will provide the final reprogramming confirmation report.

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	Vaticia		Country : Jacon
Back Home Print Screen	Schemer Mode	ported Data	12.3V VI MI	
sonigistion	Transfer Data	Confirm Resul	-	1313
Confirm Result				
Reprogramming or programming is no operation on his ECU. Touch "Reny" to retry reprogramming		t you can retry reprogit	rogramming	
Part number after Reprog/programming		28482-0000	x	
Part number before Reprog/programming		28482-XXXXX		
Vehicle		QASHQAI		
6				
VIN		SJNFDNJ10U100	0000	
VIN System		SJNFDNJ10U100 BCM	0000	-
			2005	Retry
System		вси	2005	Retry

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 Screek	Ectaven Eccaverent	Recorded Help	📲 💥 🖿 🛄 🔀
Configetion	Transfer Esta	Confirm Result	9/9
Confirm Result			
Reprogramming is not completed -Print this screen as needed. Conf with procedure. -Restart CONSULT with disconrec	im CONSULT version, I	GN/Power switch position, shift position he reprogramming again.	on and etc
Part number after Reprog/programming		284E2-XXXXX	
Current part number		284E2-XXXXX	
Vahicle		QASHQAI	
VIN		SJNFDNJ10U100000	
System		BCM	
Date		25/07/2011 16:30:00	
Information			
Errer Code			Print

Figure 6

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

NOTE: For TCM reprogramming only erase DTCs as needed.

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

NOTE:

- Listed below are the conditions required for IAVL to complete.
- If IAVL does not complete within a few minutes, a condition may be out of range.
 - Engine coolant temperature: 70 -105° C (158 221°F).
 - Battery voltage: More than 12.9V (At idle).
 - Selector lever: P or N.
 - Electric load switch: OFF (Air conditioner, headlamp, and rear window defogger).
 - Steering wheel: Neutral (Straight-ahead position).
 - > Vehicle speed: Stopped.
 - > Transmission: Warmed up (ATF TEMP SE less than 0.9V).
- 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 Rome Print Screen Capture	Measurement Mode Recorded Help 14.3V VI	· × • 📄 🔛				
Configuration	se All DTCs Print Result / Operation Complete	18/18				
Print Result / Operation Complete						
In case CONSULT can NOT immediately act temporally storage of this page. Touch "Scr	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 before Reprog/programming	13 28740-4 EJ2E					
Vehicle	£343702					
VIN	JN1AE4E+IXAM301264					
System	ENGINE Step 14	Print				
Date	11/3/2011 2:10:21 AM					
1/1 Step 1/1 Confirm						

Figure 7

16. Make sure you have performed both ECM and TCM reprogramming (ECM first).

- 17. Close C-III plus.
- 18. Turn the ignition OFF.

19. Disconnect the plus VI from the vehicle.

20. 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 or TCM reprogramming are not covered by this bulletin.