

### SERVICE BULLETIN

Classification:

Reference:

Date:

EC16-026a

NTB16-086a

September 28, 2017

### 2013-2014 SENTRA; ENGINE TURNS OFF OR HESITATES WHEN ACCELERATING FROM A STOP DURING HOT AMBIENT TEMPERATURES (100° F OR MORE)

This bulletin has been amended to update the Applied Vehicles, Claims Information, and other changes on pages 2 and 5. No other changes were made. Please discard previous versions of this bulletin.

**APPLIED VEHICLE:** 2013-2014 Sentra (B17)

### IF YOU CONFIRM

The engine turns OFF or hesitates when accelerating from a stop during hot ambient temperatures (100°F or more),

### AND

The engine is able to be restarted.

### ACTION

- 1. Inspect the color of the PCV valve, and replace if the color is orange (see Figure A on page 2).
- 2. Refer to step 6 in the Reprogram ECM section of the SERVICE PROCEDURE to confirm if reprogramming is needed.
- 3. If needed, perform ECM reprogram.

**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

### Inspect / Replace PCV Valve

- 1. Open the engine hood and locate the PCV valve.
- 2. Inspect the color of the PCV valve.

### If PCV valve is orange, as shown in Figure A:

- Replace the PCV valve.
- If needed, refer to the Electronic Service Manual ESM, section EM-Engine Mechanical, for replacement information.
- Use the <u>new</u> PCV valve listed in the Parts Information.
- The new PCV valve is "black" color.

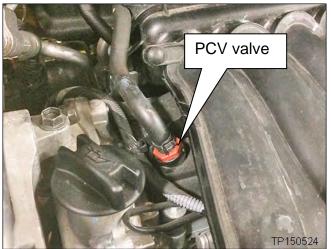


Figure A

### If PCV valve is black:

• DO NOT replace – continue with the 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 Idle Air Volume Learn. The above condition are required for Idle Air Volume Learn to complete.



Figure B

CAUTION.	CAUTION:
<ul> <li>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>.</li> <li>Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, <u>the ECM may be damaged</u>.</li> <li>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>.</li> <li>Turn OFF all external Bluetooth<sup>®</sup> devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth<sup>®</sup> signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and <u>the ECM may be damaged</u>.</li> </ul>	<ul> <li>If the vehicle battery voltage drops below <u>12.0V or above 15.5V</u> during reprogramming, <u>the ECM may be damaged</u>.</li> <li>Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, <u>the ECM may be damaged</u>.</li> <li>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>.</li> <li>Turn OFF all external Bluetooth<sup>®</sup> devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth<sup>®</sup> signal waves are within range of the CONSULT PC during reprogramming,</li> </ul>

- 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.
  - The serial number will display when the plus VI is recognized.
- 4. Select Re/programming, Configuration.

	Image: Second Back         Image:	
VI is	Connection Status     Diagnosis Menu       Serial No.     Status       Diagnosis (One System)	
recognized	VI 2300727 Normal Mode/Wireless connection Diagnosis (All Systems)	
	MI - No connection	Step 4
	Select VI/MI	]
	Application Setting           Sub mode         Image 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 **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		verded	11.8V VI MI	
Re/programming, Configuration	Operation Selection	Save ECU Data		717
ave ECU Data				
Touch "Save" to save operation Operation log helps to restart ne after operation has completely fin	xt operation by selecting suit			
File Label		*****		1
Operation		REPROGRAMMING		
System 6A: Curr	ent ECM P/N	ENGINE		
Part Number		23710		
Vehicle		*****		
VIN		*****		·
Date		11/1/201× 1:22:16 AM		Save
	1			Jave

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>, continue with the reprogramming procedure.
  - If there is <u>not a match</u>, reprogramming is not needed.

### Table A

MODEL	CURRENT ECM PART NUMBER: 23710-
2013 Sentra	3SA0A, 3SA0B, 3SA0C, 3SA0D, 3SA0E 3SA2A, 3SA2D, 3SA2E 3SA3A 3SA4A, 3SA4D, 3SA4E 3SA5A, 3SA5D, 3SA5E 3SA6A, 3SA6B, 3SA6C, 3SA6D, 3SA6E 3SB0A, 3SB0B, 3SB0C, 3SB0D, 3SB0E 3SG2A, 3SG2B, 3SG2C, 3SG2D, 3SG2E 3SG3A, 3SG3D, 3SG3E 3SG6A, 3SG6B, 3SG6C, 3SG6D, 3SG6E 3SG7A, 3SG7B, 3SG7C, 3SG7D, 3SG7E 3SG8A, 3SG8B, 3SG8C, 3SG8D 3SG9A, 3SG9B, 3SG9C 3RH0A, 3RH0B, 3RH0C 3RH1A, 3RH1B, 3RH1C 3RH2A, 3RH2B, 3RH2C 3RH3A, 3RH3B, 3RH3C 3SR2A, 3SR2B, 3SR2C, 3SR2D, 3SR2E 3SC0A, 3SZ0B, 3SZ0C, 3SZ0D, 3SZ0E 3SZ0A, 3SZ0B, 3SZ0C, 3SZ0D, 3SZ0E 3SZ1A, 3SZ1B, 3SZ1C, 3SZ1D 3SZ1E
2014 Sentra	9AM0A, 9AM0B, 9AM0C, 9AM0D, 9AM0E 9AM1A, 9AM1B, 9AM1C, 9AM1D, 9AM1E 9AM2A, 9AM2B, 9AM2C, 9AM2D, 9AM2E 9AM3A, 9AM3B, 9AM3C, 9AM3D, 9AM3E 9AM4A, 9AM4B, 9AM4C, 9AM4D, 9AM4E 9AM5A, 9AM5B, 9AM5C, 9AM5D, 9AM5E 3RU6A, 3RU6B, 3RU6C 3RU7A, 3RU7B, 3RU7C 3RU8A, 3RU8B, 3RU8C 3RU9A, 3RU9B, 3RU9C

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.
  - > If there is more than one new P/N, 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.	VIN.	Vehicle :	Country : U.S.A.
Back Home Print Scre	en Screen Measurement Mode	Recorded Data	M 🗖 🔜 🔀
Re/programming, Configuration	Precaution	Select Program Data Confirm Vo Conditi	
Select Program Data			
Touch and select the reprog/ In case no reprog/programmin reprog/programming data in Co System	g data is listed below, confirm	n the vehicle selection, VIN and	
Current Part Number	Part Number After Repro/	programming Other Informatio	on
xxxxxx-xxxxxxx xxxxxxx-xxxxxxx	xxxxxxx xxxxxxx	xxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxx	
		010	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 (which indicates that reprogramming did <u>not</u> complete), refer to the information on the next page 8.

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

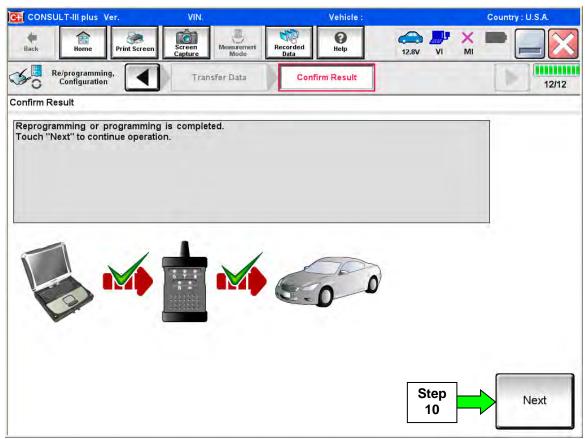


Figure 4

### 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.

### 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<sup>®</sup> 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 pue Ner	<b>WN</b>	Unitipin		Contro Jacan
Ban Hano Print Scorer	And	Water Histo	12.21V VI MI	
So sentigator	Same part	Contine Based		13/13
Confirm Result				
Reprogramming or programming is not or operation on this ECU. Touch "Reny" to reby reprogramming or		sut you can retry reprogry	programming	R
Part number after Reprogramming		28482-00000	x	
Part number before Reprog/programming		284B2-XXXXX		
Vehicle		QASHQAI		1
VIN		SJNFDNJ10U100	0000	
System		<b>BCN</b>		
Dete		26/07/2011 16 30	0.00	Reby
Error Code				
Euro 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.

B Hone Print Boreer Science	Mental results for the second	··· ··· ····
antim Result	Curinti Reevi	9/9
Remogramming a ref completed properly And this sorree as needed. Confirm CONS with procedure. Rectari CONSULT with disconnecting VI or	SULT version. KGN/Power settch position, shift position nse, and start the reprogramming again	ard de
Part memoerafter Reprog/programming	28482-XXXXX	
Current part number	284E2-JXXXX	
Valsele	O48HQAI	
VIN	SUNFDRU10U100000	
	BCM	
System	BCM 25/07/2011 16/30/00	
System Dete		

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	Screen Capture	Recorded Data	(A) VI	× 🗭 📃 🔀
Re/programming, Configuration	Erase All DTCs	Print Result / Operation Complete		18/18
Print Result / Operation Complete				
All tasks are completed. Confirn In case CONSULT can NOT imm temporally storage of this page. Data Folder" on desk top, and op Part number after	ediately access to LAN o Touch "Screen Capture" ben the folder named "Sc	r printer, Screen Capture func , and save it. Screen capture o reenimages''.		
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	14	
			Step	
			15	Confirm

Figure 7

- 16. Close C-III plus.
- 17. Turn the ignition OFF.
- 18. Disconnect the plus VI from the vehicle.

### PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
PCV Valve (Black Color)	11810-6N202	1

### **CLAIMS INFORMATION**

### IF PCV Valve is Orange and requires replacement

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
RPL PCV Valve	11810-6N202	AR32AA	HD	32	(1)

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

### And Only if needed

#### On the <u>same repair line</u> if the ECM is reprogrammed:

DESCRIPTION	OP CODE	SYM	DIA	FRT
Reprogram ECM	DE97AA	ZE	32	(1) (2)

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

(2) FRT allows adequate time to access DTC codes and reprogram ECM. No other diagnostic procedures subsequently required. Do NOT claim any Diagnostic Op Codes with this claim.

### OR

### IF PCV Valve is Black and only reprograming is needed

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	DE97AA	ZE	32	(2) (3)

(1) Reference FAST and use the ECM part number (23710-\*\*\*\*\*) as the PFP.

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

(3) FRT allows adequate time to access DTC codes and reprogram ECM. No other diagnostic procedures subsequently required. Do NOT claim any Diagnostic Op Codes with this claim.