

Reference:

NTB18-051

Date: July 19, 2018

# VOLUNTARY SERVICE CAMPAIGN 2013-2017 SENTRA; ECM REPROGRAM

CAMPAIGN ID #s: PM827 and PC633 APPLIED VEHICLES: 2013-2017 Sentra (B17) APPLIED ENGINE: MRA8DE (non-turbo)

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

#### INTRODUCTION

Nissan is conducting this voluntary service campaign on certain specific model year 2013-2017 Sentra vehicles that are currently registered in the states of Arizona or Nevada. 2013-2014 Sentra vehicles will have the PCV valve replaced, and the Engine Control Module (ECM) software reprogrammed. 2015-2017 Sentra vehicles will have the ECM software reprogrammed only. This service will be performed at no charge to the customer for parts or labor.

# **IDENTIFICATION NUMBER**

Nissan has assigned identification numbers PM827 and PC633 to this campaign. The correct number must appear on all communication and documentation of any nature dealing with this campaign.

# **DEALER RESPONSIBILITY**

Dealers are to repair vehicles falling within range of this campaign that enter the service department. This includes vehicles purchased from private parties, vehicles presented by transient (tourists) owners, and vehicles in a dealer's inventory.

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

### 2013-2014 Sentra Only: Inspect / Replace PCV Valve

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

#### If the 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.

#### If the PCV valve is black:

• DO NOT replace – go to the next page, 2013-2017 Sentra: Reprogram ECM.



Figure A

#### 2013-2017 Sentra: Reprogram ECM

**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).

#### NOTE:

- Most instructions for reprogramming with 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



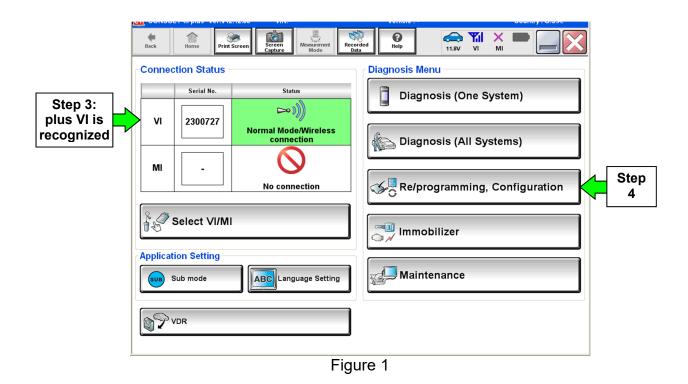
Figure B

• 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.

#### 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 rises 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<sup>®</sup> devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth<sup>®</sup> 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. 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.



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 Home Print Screen Capture	Measurement Mode	🚓 🏋 🗙 🖿 🔜 🔀		
Re/programming, Configuration	tion Selection Save ECU Data	717		
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	REPROGRAMMING			
6A: <u>Current</u> EC				
Part Number	23710			
Vehicle	*******			
VIN	200000000000000000000000000000000000000			
Date	11/1/201× 1:22:16 AM	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>, continue with the reprogramming procedure.
  - If there is <u>not a match</u>, reprogramming is not needed. Proceed to page 12, **CLAIMS INFORMATION**, "Reprogramming Not Needed".

Table A

MODEL: SENTRA	CURRENT ECM PART NUMBER: 23710-
2013	3RH0A, 3RH0B, 3RH0D 3RH1A, 3RH1B, 3RH1D 3RH2A, 3RH2B, 3RH2D, 3RH2E 3RH3A, 3RH3B, 3RH3D, 3RH3E 3RJ0B, 3RJ1B 3SG8B, 3SG8C, 3SG8E 3SG9B, 3SG9C, 3SG9E 3SZ0D, 3SZ0E 3SZ1D, 3SZ1E
2014	3RT0B, 3RT1B 3RU6B, 3RU6C, 3RU6E 3RU7B, 3RU7C, 3RU7E 3RU8B, 3RU8C, 3RU8E 3RU9B, 3RU9C, 3RU9E 3SR6A, 3SR7A 9AM4D, 9AM4E 9AM5D, 9AM5E
2015	4AT2A, 4AT2B, 4AT2C 4AT4A, 4AT4B, 4AT4C, 4AT4D 4AT6A, 4AT6B, 4AT6C, 4AT6D 4AT8A, 4AT8B, 4AT8C, 4AT8D, 4AT8E
2016	4AF0A, 4AF1A, 4AF2A, 4AF3A, 4AF4A, 4AF5A 4AF0B, 4AF1B, 4AF2B, 4AF3B, 4AF4B, 4AF5B 4AF0D, 4AF1D, 4AF2D, 4AF3D, 4AF4D, 4AF5D
2017	3SH4B, 3SH4C, 3SH4D 3SH5B, 3SH5C, 3SH5D, 3SH5E 3SH6B, 3SH6C, 3SH6D, 3SH6E 3SH7B, 3SH7C, 3SH7D, 3SH7E 3SH8A 3SR8A, 3SR9A

- 7. Follow the on-screen instructions to navigate C-III plus and reprogram the ECM. **NOTES:** 
  - 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.	VIN:	Vehicle :	Country : U.S.A.
Back Home Prin	nt Screen Capture Mode		🚗 🎢 🗙 🖿 🔜 🔀
Re/programming, Configuration	Precaution	Select Program Data	Confirm Vehicle Condition
Select Program Data			
		elow. firm the vehicle selection, VIN an	d A
System	ENGINE		
Current Part Number	Part Number After Re	pro/programming Othe	er Information
X00000X-X00000X	X00000X-X00000X	200000000	200000000000
X00000X-X00000X	XXXXXXXX-XXXXXXXX	0000000000	X0000000000X
		0	/0 Next

Figure 3

- Before reprogramming will start, you will be required to enter your User Name and Password.
  - > The CONSULT PC must be connected to the Internet (Wi-Fi or cable).
  - If you do not know your User Name and Password, contact your Service Manager.

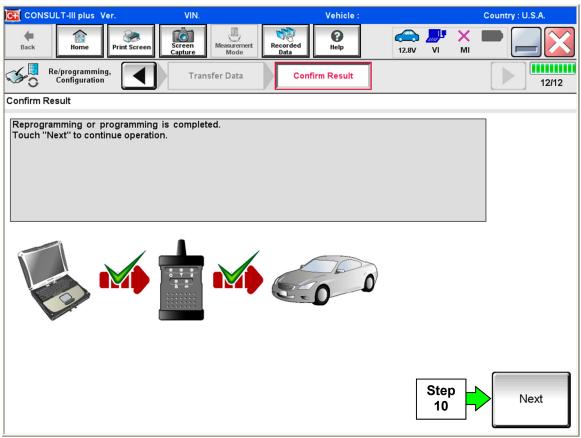
Configuration     Confirm Vehicle     Confirm Vehicle     Confirm Vehicle     Confirm Vehicle     Confirm Vehicle       Were Authentication     Confirm Vehicle     User Authentication     Transfer Data     Trinsfer Data
Daimler WS Please enteryour UserID below.
Usemame: 1 Passwort Submit
Restart Login
Copyright 2015 SecureAuth Corp. Al rights reserved.

Figure 4

8. When the screen in Figure 5 displays, reprogramming is complete.

**NOTE:** If the screen in Figure 5 does <u>not</u> display (indicating that reprogramming did <u>not</u> complete), refer to the information on page 9.

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





#### NOTE:

- In the next steps, starting on page 10, 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 the plus VI or shut down C-III plus if reprogramming does not complete.

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

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

		Country : Japan
Back Back Print Sce	ser Cature Measurement Data Help	12.TV VI MI
soniglation	Transfer Data Corfirm Resul	1313
Confirm Result		
operation on this ECU. Touch "Reny" to retry reprogra	ng is not completed propertly, but you can retry repro	
Part number after Reprog/programming	28482-XXX	XX
Part number before Reprog/programming	284B2-300	0XX
	28482-XXX QASHQ/	
Reprog/programming		Q1
Reprog/programming Vehicle	QASHQ/	Q1
Reprog/programming Vehicle VIN	QASHQ/ SJNFDNJ10U	91
Reprog/programming Vehicle VIN System	QASHQJ SJNFDNJ10U BCM	91

Figure 6

# If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 7:

- 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.

IGN/Power ewitch position, shift position he reprogramming again.	nard etc
IGW/Power switch position, shift position he reprogramming again.	
he reprogramming again.	nard etc
he reprogramming again.	nard etc
26482.333377	
20+DZ-AAAAA	
QASHQAI	
SJNFDNJ10U100000	
BCM	
25/07/2011 16:30:00	
	Print
	SUNFDNJ10U100000 BCM

Figure 7

- 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)
  - o Selector lever: P or N
  - Electric load switch: OFF (Air conditioner, headlamp, rear window defogger)
  - 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 8 will display.
- 13. Verify the before and after part numbers are different.
- 14. Print a copy of this screen (Figure 8) and attach it to the repair order for warranty documentation.
- 15. Select Confirm.

CONSULT-III plus Ver VIN:	Vehicle :	Country : U.S.A.
Back Rome Print Screen Capture	Measurement Mode Recorded Data Plan	n 🎤 🗙 🖿 🔜 🔀
Configuration	se All DTCs Print Result / Operation Complete	18/18
Print Result / Operation Complete		
	cess to LAN or printer, Screen Capture function is een Capture'', and save it. Screen capture data is	
Part number after Reprog/programming Part number before Reprog/programming	23710           13	
Vehicle	******	
VIN	******	
System	ENGINE	Step Print
Date	11/3/201× 2:10:21 AM	
	۲	Step 15 Confirm

Figure 8

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 *

\* If needing replacement. See page 2.

#### **CLAIMS INFORMATION**

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
PM827	ECM Reprogramming	PM8270	0.4 hrs
PM827	ECM Reprogramming and PCV Valve Replacement (only Sentra MY13 & MY14) *	PM8271	0.5 hrs
PM827	Reprogramming Not Needed	PM8272	0.3 hrs
PC633	ECM Reprogramming	PC6331	0.4 hrs
PC633	ECM Reprogramming and PCV Valve Replacement (only Sentra MY13 & MY14) *	PC6332	0.5 hrs
PC633	Reprogramming Not Needed	PC6333	0.3 hrs

\* If PCV valve replacement is performed. See page 2.