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SERVICE BULLETIN

Technical Bulletin

EC12-034

NTB13-001

January 3, 2013

Date:

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

APPLIED VEHICLE: APPLIED VIN AND DATE 2013 Sentra (B17) Built before 3N1AB7AP(*)DL 650298 And before December 14, 2012 CVT

APPLIED TRANSMISSION:

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) Reference the repair order and use the ECM 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.

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 | corded Beta | × = _ X | |
| | Connection Status | Diagnosis Menu | | |
| | Serial No. Status | Diagnosis (One S | ystem) | |
| Step 3: VI is recognized | VI 2300727 Normal Mode/Wireless connection | Diagnosis (All Sys | stems) | |
| | MI - No connection | Re/programming, | Configuration | Step 4 |
| | Select VI/MI | Immobilizer | | |
| | Application Setting Sub mode Sub mode | 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:JN1EY1AP1CM | 1910014 | Vehicle : INF | INITI M35h HY5 | 1 2012 | Country : U.S.A. |
|-----------------|----------------------|------------------------|------------------|------------------|----------------|--------|------------------|
| Back Ho | Print Screen | Screen Capture | Recorded Data | 0 Help | 11.8V V | Х | |
| Re/prog | ramming, juration | Operation Selection | Save E | CU Data | | | 7/7 |
| ave ECU Data | | | | | | | |
| after operation | has completely finis | operation by selecting | | | | | |
| File Label | | | | MAPIOME10 | 044 | | |
| Operation | 6A: Cur | rent P/N | REP | ROGRAMMIN | IG | | |
| System | 0A. <u>0ui</u> | | | ENGINE | | | |
| Part Number | | | | 17 10 II M GOA | 1 | | |
| /ehicle | | | #1 # 5 | onden af an ar | m | | |
| VIN | | | | MAP#OM818 | 044 | | |
| Date | | | 11/1/ | 2011 1:22:16 | АМ | | Cours |
| | | | | | | | 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- |
|-------------|---------------------------------|
| 2013 Sentra | 3SB0A |
| | 3SG2A |
| | 3SA2A, 3SA2B, 3SA2C |
| (B17) | 3SG3A, 3SG3B, 3SG3C |
| (втт) | 3SA4A, 3SA4B, 3SA4C |
| | 3SA5A, 3SA5B, 3SA5C |
| | 3SA8A, 3SA8B, 3SA8C |

ТСМ

| MODEL | CURRENT TCM PART NUMBER: 31036- |
|----------------------|---------------------------------|
| 2013 Sentra (B17) | 3SR0A |
| | 3SG0A |
| (втт) | 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.

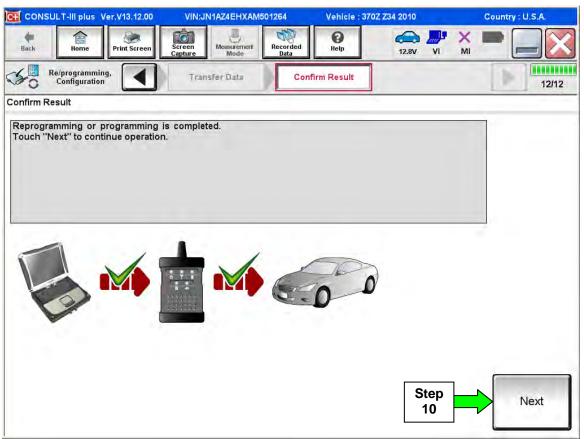
| CONSULT-III plus Ver.V12.12.0 | 0 VIN:JN1EY1AP1CM910014 | Vehicle : INFINITI M35h HY51 2012 | Country : U.S.A. |
|--|---|--|------------------|
| Back Rome Print Screen | , Screen Capture Mode Recorded Data | Image: Weight of the second | |
| Re/programming, Configuration | Precaution | Confirm Vehicle Condition | 9/11 |
| Select Program Data | | | |
| Touch and select the reprog/pr In case no reprog/programming reprog/programming data in CO System | data is listed below, confirm the veh | icle selection, VIN and | |
| Current Part Number | Part Number After Repro/programmi | ing Other Information | _ |
| XXXXX-XXXXX XXXXXXXXXXXXXXXX XXXXX-XXXXX | XXXXX-XXXXX XXXXXXXX XXXXX-XXXXX | | |
| | | 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 (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>.

| Base Hone Print Screen Dates | stensor e sent Math | |
|--|--|------------------|
| nuprogramig. | Contem Resol | 13/13 |
| confirm Result | | |
| Reprogramming or progamming is not comple operation on the ECU Touch "Reny" to retry reprogramming or progra | led propertly, but you can retry reprogramm emming. | " <mark>R</mark> |
| Part number after Reprogramming | 284E2-XXXXX | |
| Partinumber before 28482-XXXXX Reprogramming 28482-XXXXX | | |
| Vehicle | QASHQAI | T |
| VIN | SUNFONU100100000 | |
| System | вси | |
| Dete | 26/07/2011 16:30:00 | Retry |
| Error Gode | | |
| Comment | | Print |

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-ILBUS Wr. | VIN | Voticle (CLASHQA) | County Japan |
|---|----------------------|--|--------------|
| a Reprograman | Scheel Mens remort | | |
| onfirm Rosult | | | |
| Reprogramming as not completed pro Print this screen as needed. Confirm with procedure. Restair CONSULT with disconnecting | CONSULT version, IGN | and the second second second | nard et: |
| Part manoer after | | 284E2-XXXXX | _ |
| Reprog/programming | | 2040230000 | |
| | | 28462-31XXXX | |
| Current part number | | 20.000000 | |
| Cument part number Vehicle | | 284E2-31XXXX | |
| Cument part number Veitsche VIN | - | 28482-JXXXX QASHQAI | |
| Reprogramming Current part number Vehisele VIN Syssem Date | | 28482-JXXXX OASHOAI SJANFDINJ 10U100000 | |
| Cument part number Velsote VIN Syssore | | 28482-33XXXX 03484044 5446743100100000 5004 | |

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 Home | Print Screen | Screen Capture | Measurement Mode | Recorded Data | () Help | 14.3V | vi | × | |
|--|--|--|--|---|--------------------------------|--------------|------------|---|---------|
| Re/programmin Configuration | ng, | Eras | e All DTCs | | t Result / on Complete | | | | 18/18 |
| rint Result / Operation | n Complete | | | | | | | | |
| All tasks are comple In case CONSULT ca temporally storage o Data Folder'' on desk Part number after | in NOT immed f this page. To top, and open | liately acc ouch "Scre n the folde | ess to LAN o een Capture" r named "Sci | r printer, Scr , and save it. eenImages'' | een Capture fi Screen captu | unction is a | | | |
| Reprog/programming Part number before | | | ep 3 | | 20/10/12022 | | | | _ |
| Reprog/programming | | | | | 28740-4 EJ2E | | | | |
| Vehicle | | | | | 2343702 | | | | |
| VIN | | | | JN11 | AE4EHKAM90 | 264 | | | |
| System | | | | | ENGINE | | Step 14 | F | Print |
| Date | | | | 11/3 | 3/2011 2:10:21 | AM | 14 | J | |
| | | | | | | 1/1 | Step 15 | | Confirm |
| | | | | | | | | 1 | |

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.