

SERVICE BULLETIN

Classification: EC15-008 Reference: ITB15-022 COPYRIGHT© NISSAN NORTH AMERICA, INC. Date:

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2015 QX60; MIL ON WITH REAR O2 SENSOR RELATED DTC STORED

APPLIED VEHICLE: 2015 QX60 (L50)

IF YOU CONFIRM:

The MIL is ON and any of the following DTCs are stored in the ECM:

 P0037, P0038, P0057, P0058, P0139, P0159, P0141, P0161, P0137, P0157, P0138, P0158

ACTION:

- 1. Refer to step 6 in the **SERVICE PROCEDURE** to confirm if ECM reprogramming applies.
- 2. If it applies, reprogram the ECM.
- 3. Replace only the rear O2 sensor that relates to the stored DTC(s) (B1 and/or B2).

NOTE: Do NOT replace both rear O2 sensors if the DTC(s) is for one rear O2 sensor.

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.

Infiniti 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 Infiniti dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

ECM Reprogramming

- 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 the GR8 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 <u>the ECM/TCM 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 <u>the ECM/TCM may be damaged</u>.

- 1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
- 2. Open C-III plus.
- 3. Wait for the plus VI to be recognized / connected.
 - The serial number (Serial No.) 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 Mode | Recorded Data | × • • • • | |
| | Connection Status | Diagnosis Menu | | |
| | Serial No. Status | Diagnosis (One S | System) | |
| Step 3: VI is recognized | VI 2300727 Normal Mode/Wireless connection | Diagnosis (All S | ystems) | |
| | | | | |
| | No connection | Re/programming | , Configuration | L Step |
| | Select VI/MI | | | |
| | Application Setting | | | |
| | Sub mode | g Maintenance | | |
| | VDR | | | |
| | <u> </u> | F ! | | |

Figure 1

5. Follow the on-screen instructions and navigate 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: | JN1EY1AP1CM910014 | Vehicle : INFINI | FI M35h HY51 20 | 012 Country : U.S.A. |
|---|---------------------|-----------------------------|-----------------|----------------------|
| Back Home Print Screen Capture | Measurement Mode | () Help | 11.8V VI | × = _ × |
| Re/programming, Configuration | ation Selection | ECU Data | | 717 |
| Save ECU Data | | | | |
| Touch "Save" to save operation log and th Operation log helps to restart next operatio after operation has completely finished. | | | | sed |
| File Label | | e ya arpa ome 1000 a | I | |
| Operation 6A: Current | | PROGRAMMING | | |
| System | | ENGINE | | |
| Part Number | | 237 10=1 M (H0)A | | |
| Vehicle | #1¥ | 6# #F#N#T#M85#1 | | |
| VIN | u Niri I | | Þ | |
| 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 PART NUMBER column in Table A below.
 - If there is a match, this bulletin applies. Continue with the reprogramming procedure.
 - If there is not a match, ECM reprogramming does not apply. Refer to ASIST for further diagnosis.

| CURRENT ECM PART NUMBER: 23710- | |
|---------------------------------|--|
| 9NE4A, 9NE4B | |
| 9NE5A, 9NE5B | |
| 9NE6A, 9NE6B | |
| 9NE7A, 9NE7B | |
| 9NE8A, 9NE8B | |
| 9NE9A, 9NE9B | |

Table A

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 ITBXX-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.

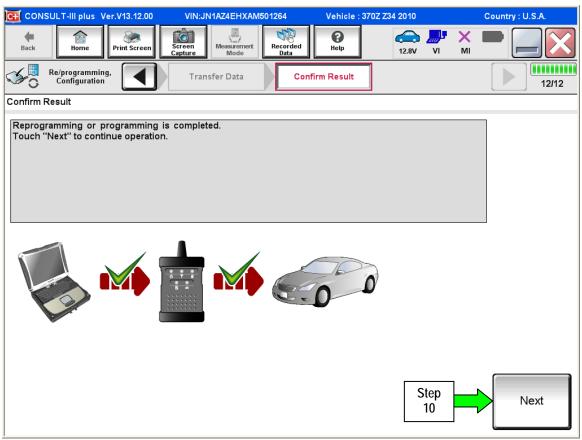
| 💽 CONSULT-III plus Ver. | VIN: | Vehicle : | | Country : U.S.A. |
|----------------------------------|---|---------------------|---|------------------|
| Back Home Prin | At Screen Capture Mode | Recorded Data | 11.8V VI MI | - |
| Re/programming, Configuration | Precaution | Select Program Data | Confirm Vehicle Condition | 9/11 |
| Select Program Data | | | | |
| | rog/programming data listed b nming data is listed below, cor in CONSULT. | | and | |
| System | ENGINE | | | |
| Current Part Number | Part Number After Re | pro/programming C | Other Information | |
| xxxxxx-xxxxxxx | XXXXXX-XXXXXXX | 00000000 | 000000000000000000000000000000000000000 | |
| XXXXXX-XXXXXXX | XXXXXX-XXXXXX | 20000000 | 000000000000000000000000000000000000000 | |
| | | | | |
| | | | 0/0 | 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 8), 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[®] 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 first</u> <u>attempt and can be selected more</u> <u>than once</u>.

| | VN. | Usticle | | Country : Jacon |
|--|---------------|--------------------------------|-------------|-----------------|
| Back Hone Print Screen | actuar Mode | sortbei Data | 12.3V VI MI | - |
| sonigiation | Transfer Data | Confirm Resul | | 1313 |
| Confirm Result | | | | |
| Reprogramming or progamming is no operation on his ECU. Touch "Retry" to retry reprogramming | | t you can retry reprog/ | programming | |
| Part number after Reprogramming | | 284B2-XXXX | x | |
| | | | | |
| Part number before Reprog/programming | | 284B2-XXXX | х | |
| | | 284B2-XXXX QASHQAI | x | _ |
| Reprog/programming Vehicle | | | | _ |
| Reprog/programming | | QASHQAI | | |
| Reprogramming Vehicle VIN | | QASHQAI SJNFDNJ10U10 | 0000 | Retry |
| Reprog/programming Vehicle VIN System | | QASHQAI SJNFDNJ10U10 BCM | 0000 | Rety |

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 / 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-ILIDIUS Ver. | VIN | Vehicle : QASHQAI | County : Japan |
|--|---------------------------|------------------------------------|----------------|
| Bark Hone Print Screer | Screen Cepture Mode | Recorded Help 42 | 🗟 🎝 🕺 💥 🖿 🥅 🚺 |
| Configizition | Transfer Data | Confirm Reput | 9/9 |
| onfirm Result | | | |
| Reprogramming is not completed pr Print this screen as needed. Confir with precedure. Restart CONSULT with disconnect | m CONSULT version, IGI | | silion and etc |
| Part number after | | 284E2-XXXXX | |
| Keprog/programming | | | |
| | | 28482-XXXXX | |
| Current part number | | 284E2-XXXXX QASHQAI | |
| Current part number | | | |
| Current part number Vehicle | | QASHQAI | |
| Reprog/programming Current part number Vehicle VIN System Date | | QASHQAI SJNFDNJ10U100000 | |
| Current part number Velhole VIN | | QASHQAI SJNFDNJ10U100000 BCM | |

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 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 -100° C (158 212°F).
 - o Battery voltage: More than 12.9V (At idle).
 - o Selector lever: P or N.
 - Electric load switch: OFF (Air conditioner, headlamp, and rear window defogger).
 - o Steering wheel: Neutral (Straight-ahead position).
 - o Vehicle speed: Stopped.
 - o 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 | Measurement Recorded Help 14.3V | | | | | |
|--|---|--------------------|--|--|--|--|
| Re/programming, Configuration | Mode Data Note 14.3V 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 | tep 23710-1 EJ2E | | | | | |
| | 13 28710-1EJ2E | | | | | |
| Vehicle | £34°37 82 | | | | | |
| VIN | JN1AE4E+IXAM901204 | | | | | |
| System | ENGINE | Step 14 Print | | | | |
| Date | 11/3/2011 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.

Go to the next page.

Rear O2 Sensor(s)

- 1. Replace the rear O2 sensor(s) on the affected bank(s) (related to the stored DTC).
 - Refer to section EM-Mechanical of the appropriate Electronic Service Manual (ESM) for rear O2 sensor replacement.
 NOTE: Do NOT replace both rear O2 sensors if the DTC(s) is for one rear O2 sensor.

WARNING: Exhaust system parts may be hot.

- 2. 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 the contents of this bulletin are not covered by this bulletin.

PARTS INFORMATION

| DESCRIPTION | PART NUMBER | QTY |
|-------------------------------|-------------|-----|
| HEATED OXYGEN SENSOR, LH REAR | 226A0-BV80A | 1 |
| HEATED OXYGEN SENSOR, RH REAR | 226A0-4LA0A | 1 |

CLAIMS INFORMATION

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

Replace Rear O2 Sensor

One

| DESCRIPTION | PFP | OP CODE | SYM | DIA | FRT |
|------------------------|-----|---------|-----|-----|-----|
| Replace Rear O2 Sensor | (1) | DE53AA | HD | 32 | (2) |

(1) Use the appropriate part number listed above in the parts information table.

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

Or

Both

| DESCRIPTION | PFP | OP CODE | SYM | DIA | FRT |
|-------------------------|-----|---------|-----|-----|-----|
| Replace Rear O2 Sensors | (1) | DE55AA | HD | 32 | (2) |

(1) Use the appropriate part number listed above in the parts information table.

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

And on the same repair line:

| DESCRIPTION | OP CODE | FRT |
|---------------|---------|---------|
| Reprogram ECM | DE97AA | (1) (2) |

(1) Reference the current Infiniti 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.