

Classification: EC13-019

Reference: ITB13-054 SERVICE BULLETIN

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December 13, 2013

# 2012 G25; MIL "ON" WITH DTC P0101 AND/OR P010B

APPLIED VEHICLES:2012 G25 Sedan (V36)APPLIED ENGINE:VQ25HR

IF YOU CONFIRM:

MIL "ON" with DTC P0101 and/or P010B (MAF SEN/CIRCUIT-B1/B2),

and

There are no drivability issues.

#### ACTION:

- 1. Refer to step 6 in the SERVICE PROCEDURE to confirm this bulletin applies to the vehicle you are working on.
- 2. If this bulletin applies, reprogram the ECM.

**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

### 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) 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: 70 105°C (158 - 221°F)
  - Battery voltage: More than 12.9V (at idle)
  - Transmission: Warmed up



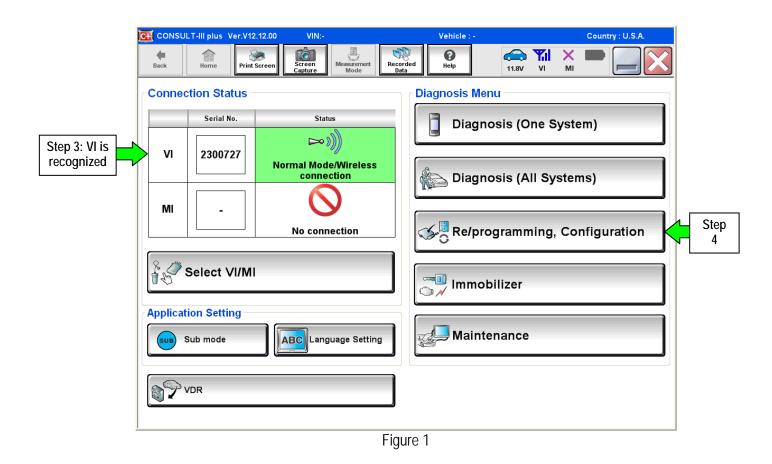
Figure A

**NOTE:** After reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase. The above conditions are required for IAVL to complete.

# CAUTION:

- Connect the GR8 to the 12V battery and set to ECM power supply mode.
  If the vehicle battery voltage drops below <u>12.0V or above 15.5V</u> during reprogramming, <u>the ECM</u> <u>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 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>.

- 1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
- 2 Open / start C-III plus.
- 3. Wait for the plus VI to be recognized.
  - The Serial No. will display when the plus VI is recognized.
- 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).

	ve operation log and th	Mode tion Selection				MI sed	
File Label Operation	A: Current Ef		JNX YXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MING			
System C Part Number Vehicle	6A: <u>Current</u> ECM P/N ENGINE 23710-XM060A XHXRXIXHHMXXXM966						
Date			3XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				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 <u>match</u>, this bulletin <u>applies</u>. Continue with the reprogramming procedure.
  - If there is <u>not a match</u>, this bulletin <u>does not apply</u>. Close C-III plus and refer to ASIST for further diagnostic information.

Table A	
Model	Current ECM Part Number: 23710-
2012 G25 (VQ25HR Engine)	1VW2C, 1VW3C

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 more than one new P/N is available, 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.

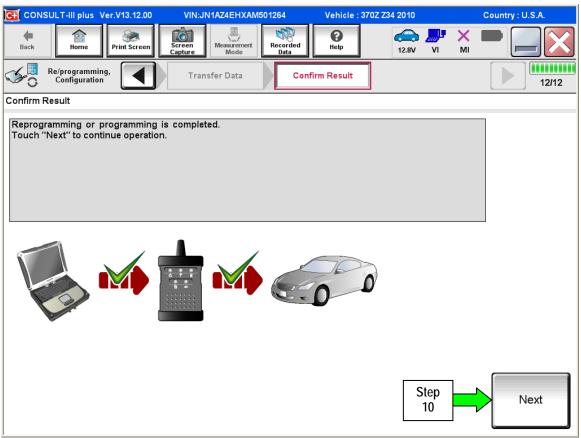
CONSULT-III plus Ver.V	12.12.00 VIN	JN1EY1AP1CM910014	Vehicle : Il	NFINITI M35h HY51 20	12 Country : U.S.A.
Back Horne Prin	mt Screen Capture	Measurement Mode	rded ta	11.8V VI	× • (
Re/programming, Configuration	F	Precaution	Select Program Data	Confirm Vehi Condition	
Select Program Data					
Touch and select the rep In case no reprog/program reprog/programming data	mming data is list		e vehicle selection	VIN and	
System	ENG	NE			
Current Part Number	Part	lumber After Repro/prog	ramming	Other Information	
XXXXX-XXXXX XXXXX-XXXXX	XXXXX-: XXXXX		xxxxxxxxxxx xxxxxxxxxxxx xxxxxxxxxxxx		
				0/0	Next

Figure 3

8. When the screen in Figure 4 displays, reprogramming is complete.

**NOTE:** If the screen in Figure 4 does not display (reprogramming does no complete), refer to ECM recovery on the next page.

- 9. Disconnect the GR8 (battery charger) from the vehicle.
- 10. Select Next.





## NOTE:

- In the next steps, starting on 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.

ECM recovery:

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

	VN	Vehicle	Eouthy Japan
Back Home Print Screen	Attent	conduct Data	
sonigistion	Transfer Data	Corfirm Resul	13/13
Confirm Result			
Reprogramming or programming is no operation on this ECU. Touch "Reny" to retry reprogramming		t you can retry reprog/prog	arming
Part number after Reprog/programming		264B2-XXXXXX	
and the second sec			
Part number selbre		284B2-XXXXX	
Part number sefore Reprog/programming Vehicle		25482-XXXXX QASHQAI	
Part number before Reprog/programming			1
Part number 3efore Reprog/programming Vehicle		QASHQAI	)
Part number Sefore Reprog/programming Vehicle VIN		QASHQAI SJNFDNJ10U100000	
Part number before Reprogragyprogramming Vehicle VIN System		QASHQAI SJNFDNJ10U100000 BCM	

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	Vir.	MN:	Vetsile : CLASHQAI	County : Japan	
Baile Hone	Prist Screer	Etner Heastenert	Saritha Bus	🔿 🍠 🗙 🖿 🔜 🔀	
Reformanting		Trevelor Data	Confirm Reput	9/9	
onfirm Result					
with precedure.	seeded. Confin		Power switch position, shift p reprogramming again.	osition and etc	
Part number after Reprog/programming			284E2-XXXXX		
Current part number			284B2-XXXXX		
Vehicle			QASHQAI		
VIN			SJNFDNJ 10U 100000		
System			BCM		
ojaci.					
Date			25/07/2011 16:30:00		
			29/07/2011 16:30:00		

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 Electronic Service Manual (ESM) for specific conditions required for the vehicle you are working on.
  - Engine coolant temperature: 70 -105° C (158 221°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)
  - o 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.

Re/programming, Configuration	s Print Result / Operation Complete 18/18						
Print Result / Operation Complete							
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	23710- <b>*IEXURE</b>						
Part number before Reprog/programming	23710- <b>XEX/2</b> E						
Vehicle	Z34 x370Z						
VIN	JINKKAZAERKKAKKIGCI1264						
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.
- 19. 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 reprogramming are not covered by this bulletin.

#### **CLAIMS INFORMATION**

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

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

(1) Refer to the electronic parts catalog (FAST or equivalent) and use the ECM assembly part number as the Primary Failed Part (PFP).

(2) Reference the current Infiniti 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.