

SERVICE BULLETIN

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Classification: EC17-031A Reference: ITB17-050A Date:

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MIL ON WITH DTC(S) STORED IN THE ECM

This bulletin has been amended. See AMENDMENT HISTORY on the last page. Please discard previous versions of this bulletin.

APPLIED VEHICLES:

APPLIED ENGINES:

2016-2017 Q50 (V37) 2017 Q60 (CV37) VR30DDTT

IF YOU CONFIRM

The MIL is ON with one or more of the following DTCs stored in the ECM:

- P0544 (EXHAUST GAS TEMP SENSOR 1 B1)
- P0545 (EXHAUST GAS TEMP SENSOR 1 B1)
- P0546 (EXHAUST GAS TEMP SENSOR 1 B1)
- P0547 (EXHAUST GAS TEMP SENSOR 1 B2)
- P0548 (EXHAUST GAS TEMP SENSOR 1 B2)
- P0549 (EXHAUST GAS TEMP SENSOR 1 B2)
- P2080 (EXHAUST GAS TEMP SENSOR 1 B1)
- P2081 (EXHAUST GAS TEMP SENSOR 1 B1)
- P2082 (EXHAUST GAS TEMP SENSOR 1 B2)
- P2083 (EXHAUST GAS TEMP SENSOR 1 B2)

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 entire **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 retailer to determine if this applies to your vehicle.

SERVICE PROCEDURE

ECM Reprogram

IMPORTANT: Before starting, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All CONSULT software updates (if any) have been installed.

NOTE:

- Most instructions for reprogramming with CONSULT 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 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)
 - o Battery voltage: More than 12.9V (At idle)
 - o Transmission: Warmed up



 After reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.

CAUTION:

- Connect a battery maintainer or smart charger, set to reflash mode or a similar setting, to ensure the battery voltage stays between 12.0 V and 15.5 V.. If the vehicle battery voltage drops below <u>12.0V or 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 <u>the ECM 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 may be damaged</u>.

- 1. Connect the VI to the vehicle.
- 2. Start CONSULT.
- 3. Wait for the VI to be recognized.
 - The serial number will display when the VI is recognized (Figure 1).
- 4. Select **Re/programming**, **Configuration**.

Figure 1	Application Setting Sub mode ABC Language Setting	Connection Status Diagnosis Menu VI 2300727 Normal Mode/Wireless connection Diagnosis (One System) MI - No connection Serial No. No connection Serial No.
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5. Follow the on-screen instructions and navigate CONSULT to the screen shown in Figure 2 on the next page.

- 6. When you get to the screen shown in Figure 2, confirm that a reprogram is available 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).

Image: Back Image: Back				
Re/programming, Operation Selection Save ECU Data				
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 XXXXXXXXXXXXX				
Operation	REPROGRAMMING			
System	ENGINE			
Part Number Current ECM P/N 23710-XXXXX				
Vehicle	xxxxxxxxx			
VIN	xxxxxxxxxx			
Date	xxxxxxxxxxxxxx Save			
Figure 2				

- b. Compare the P/N you wrote down to the numbers in the Current ECM Part Number column in Table A, beginning on the next page.
 - If there is a match, this bulletin applies. Continue with the reprogramming procedure.
 - If there is <u>not</u> a match, this bulletin does not apply. Refer to ASIST for further diagnostic and repair information.

Table A

MODEL	Current ECM Part Number: 23710-		
	5CF1A, 5CF1B, 5CF1C, 5CF2A, 5CF2B, 5CF2C		
	5CF3A, 5CF3B, 5CF3C, 5CF4A, 5CF4B, 5CF4C		
	5CF5A, 5CF5B, 5CF5C, 5CF6A, 5CF6B, 5CF6C		
	5CF7A, 5CF7B, 5CF7C, 5CF8A, 5CF8B, 5CF8C		
	5CF9A, 5CF9B, 5CF9C		
	5CH3A, 5CH3B, 5CH3C, 5CH4A, 5CH4B, 5CH4C		
2016 Q50	5CH7A, 5CH7B, 5CH7C, 5CH8A, 5CH8B, 5CH8C		
	5CH9A, 5CH9B, 5CH9C		
	5CJ2A, 5CJ2B, 5CJ2C, 5CJ3A, 5CJ3B, 5CJ3C		
	5CJ4A, 5CJ4B, 5CJ4C, 5CJ5A, 5CJ5B, 5CJ5C		
	5CJ6A, 5CJ6B, 5CJ6C, 5CJ7A, 5CJ7B, 5CJ7C		
	5CJ8A, 5CJ8B, 5CJ8C, 5CJ9A, 5CJ9B, 5CJ9C		
	5CD5A, 5CD5B, 5CD5C, 5CD6A, 5CD6B, 5CD6C		
	6HA0A, 6HA0B, 6HA0C, 6HA1A, 6HA1B, 6HA1C		
	6HA2A, 6HA2B, 6HA2C, 6HA3A, 6HA3B, 6HA3C		
	6HA4A, 6HA4B, 6HA4C, 6HA5A, 6HA5B, 6HA5C		
	6НА6А, 6НА6В, 6НА6С, 6НА7А, 6НА7В, 6НА7С		
	6HF0A, 6HF0B, 6HF0C, 6HF1A, 6HF1B, 6HF1C		
2017 050	6HF2A, 6HF2B, 6HF2C, 6HF3A, 6HF3B, 6HF3C		
2017 (250	6HF4A, 6HF4B, 6HF4C, 6HF5A, 6HF5B, 6HF5C		
	6HF6A, 6HF6B, 6HF6C, 6HF7A, 6HF7B, 6HF7C		
	6HG2A, 6HG2B, 6HG2C, 6HG3A, 6HG3B, 6HG3C		
	6HG4A, 6HG4B, 6HG4C, 6HG5A, 6HG5B, 6HG5C		
	6HG6A, 6HG6B, 6HG6C, 6HG7A, 6HG7B, 6HG7C		
	6HG8A, 6HG8B, 6HG8C, 6HG9A, 6HG9B, 6HG9C		

Continued on the next page.

Table A (continued)

MODEL	Current ECM Part Number: 23710-
	5CC0A, 5CC0C, 5CC0D, 5CC0E
	5CC1A, 5CC1B, 5CC1C, 5CC1D
	5CC8A, 5CC8B, 5CC8C, 5CC8D
	5CC9A, 5CC9B, 5CC9C, 5CC9D
	5CG0A, 5CG0C, 5CG0D, 5CG0E
	5CG1A, 5CG1B, 5CG1C, 5CG1D
	5CG5A, 5CG5B, 5CG5C, 5CG5D
	5CG6A, 5CG6B, 5CG6C, 5CG6D
	5CG7A, 5CG7B, 5CG7C, 5CG7D
	5CG8A, 5CG8B, 5CG8C, 5CG8D
	5CH1A, 5CH1B, 5CH1C, 5CH1D
2017 Q60	5CH2A, 5CH2C, 5CH2D, 5CH2E
	5CH5A, 5CH5C, 5CH5D, 5CH5E
	5CH6A, 5CH6C, 5CH6D, 5CH6E
	5CJ0A, 5CJ0B, 5CJ0C, 5CJ0D
	5CJ1A, 5CJ1B, 5CJ1C, 5CJ1D
	5CK1A, 5CK1B, 5CK1C, 5CK1D
	5CK2A, 5CK2B, 5CK2C, 5CK2D
	5CK3A, 5CK3B, 5CK3C, 5CK3D
	5CK4A, 5CK4B, 5CK4C, 5CK4D
	5CL5A, 5CL5B, 5CL5C, 5CL5D
	5CL6A, 5CL6B, 5CL6C, 5CL6D
	5CL7A, 5CL7B, 5CL7C, 5CL7D
	5CL8A, 5CL8B, 5CL8C, 5CL8D

7. Follow the on-screen instructions to navigate CONSULT and reprogram the ECM.

NOTE:

- In some cases, more than one new P/N for reprogramming is available.
 - o 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 CONSULT and disconnect from the vehicle.

Back Home Pri	int Screen Screen Mode	Recorded Data	ata	9/11
Select Program Data				
Touch and select the rep In case no reprog/progra reprog/programming data	prog/programming data listed I mming data is listed below, con a in CONSULT.	pelow. nfirm the vehicle selecti	on, VIN and	
System	ENGINE			
Current Part Number	Part Number After Re	pro/programming	Other Information	1
xxxxx-xxxxx	xxxxx-xxxxx x	****	ххххх	
xxxxx-xxxxx	ххххх-ххххх х	*****	ххххх	
				Next
			0/0	

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 <u>not</u> complete), refer to the information on the next page.

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

Back Print Screen Screen Masurement Recorded Print Image: Screen Screen	" 🗙 🖿 🔜 🔀
Re/programming, Configuration Transfer Data Confirm Result	12/12
Confirm Result	
Reprogramming or programming is completed. Touch "Next" to continue operation.	
	Next

Figure 4

NOTE:

- In the next steps (page 10), you will perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.
- These operations are required before CONSULT will provide the final reprogramming confirmation report.

Reprogram Recovery

If reprogramming does <u>not</u> complete and the "!?" symbol displays, as shown in Figure 5:

- Check battery voltage (12.0 15.5V).
- Ignition is ON, engine is OFF.
- External Bluetooth[®] devices are OFF.
- All electrical loads are OFF.
- Select <u>Retry</u> and follow the on screen instructions.

NOTE: Retry may not go through on first attempt and can be selected more than once.

Back Back Print Screen	Messurement Mode	12.4V VI MI	-
Configuration	Insfer Data		9/9
Confirm Result			
Reprogramming or programming is not con operation on this ECU. Touch "Retry" to retry reprogramming or pro	npleted properly, but you can retry rep ogramming.	orog/programming	
Part number after Reprog/programming		•	
Current Part Number			
Vehicle			
VIN			
System			
Date			Retry
Other Information			
Error Code			Print

Figure 5

If reprogramming does <u>not</u> complete and the "X" symbol displays, as shown in Figure 6:

- Check battery voltage (12.0 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, Engine is OFF.
- Transmission in Park.
- All CONSULT / VI cables are securely connected.
- All CONSULT updates are installed.
- Select <u>Home</u>, and then restart the reprogram procedure from the beginning.

Back Home Print Screen Captur	Measurement Mode Bata	🧀 🔑 🗙 12.3V VI MI	-
Configuration	ransfer Data Confirm Result		2/2
Confirm Result			
Reprogramming or programming is not cr reuse anymore. Touch "Home" to back to Home Screen, r	mpleted properly. ECU has been broke place ECU with Service Manual.	en, and impossible to	
Part number after Reprog/programming			
Current Part Number			
Vehicle			
VIN			
System			
Date			
Other Information			
Error Code			Print

Figure 6

- 11. Follow the on-screen instructions to perform the following:
 - Throttle Valve Closed Position
 - Idle Air Volume Learn (IAVL)

NOTE:

- o Listed below are common conditions required for IAVL to complete.
- o 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 -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)
 - Steering wheel: Neutral (Straight-ahead position)
 - Vehicle speed: Stopped
 - > Transmission: Warmed up
- Accelerator Pedal Close Position Learning
- Erase DTCs

- 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 Capture	Measurement Mode	(14.3V VI MI	
Re/programming, Configuration	se All DTCs Print Result / Operation Complete		18/18
Print Result / Operation Complete			
All tasks are completed. Confirm LAN acce In case CONSULT can NOT immediately acc temporally storage of this page. Touch "Scr Data Folder" on desk top, and open the fold	ss, touch "Print" to print out this page. ess to LAN or printer, Screen Capture f een Capture", and save it. Screen captu er named "ScreenImages".	unction is available for re data is in ''CIII plus	
Part number after Reprog/programming	23710-XXXXX		
Part number before Reprog/programming	23710-xxxx		
Vehicle	ххххххх		
VIN	******		
System	ENGINE		Print
Date	******		
		1/1	Confirm

Figure 7

- 16. Close CONSULT.
- 17. Turn the ignition OFF.
- 18. Disconnect the VI from the vehicle.
- 19. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.
 - This bulletin does not cover any repairs beyond ECM reprograming.
 - If the MIL comes ON, go to ASIST for further diagnostic information.

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	HD	32	(2) (3)

(1) Refer to the electronic parts catalog and use the ECM assembly part number (23710-****) 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.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
September 27, 2017	ITB17-050	Original bulletin published
March 10, 2022	ITB17-050A	Table A revised