

Classification:

EC19-003

Reference:

ITB19-003

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Date:

February 22, 2019

2019 QX50; SPARK KNOCK

APPLIED VEHICLE: 2019 QX50 (J55)

IF YOU CONFIRM:

A spark knock or knocking type noise coming from the engine under a low RPM/high load driving pattern (alternatively, "at low speeds")

AND

There are no DTCs stored in the ECM and/or TCM.

ACTION

1. Reprogram the ECM, if applicable.
2. Inform the customer that premium gasoline is recommended.

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

Reprogram the ECM

1. Using CONSULT- III plus (C-III plus), confirm the current ECM part number and write it on the repair order.
 - If it matches one of the part numbers in **Table A** on the next page, reprogram the ECM.
 - If it does not match any of the part numbers in **Table A**, go back to ASIST for further diagnostic and repair information.

IMPORTANT: Before starting the reprogramming procedure, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All C-III plus software updates (if any) have been installed.
- The CONSULT PC is connected to the Internet (Wi-Fi or cable).

NOTE:

- If you are not familiar with the reprogramming procedure, *click here*. This will link 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
- After reprogramming is complete, it is required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC Erase.



Figure 1

CAUTION:

- Connect the GR8 to the 12V battery and select ECM Power Supply Mode. If the vehicle battery voltage drops below 12.0V or above 15.5V during reprogramming, the ECM may be damaged.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, the ECM may be damaged.
- 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® devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth® signal waves are within range of the CONSULT PC and the plus VI during reprogramming, reprogramming may be interrupted and the ECM may be damaged.

Table A

MODEL	CURRENT ECM PART NUMBER: 23710-
2019 QX50	5NE0A, 5NE0B, 5NE0E
	5NE1A, 5NE1B
	5NE2A, 5NE2B
	5NE3A, 5NE3B
	5NE4A, 5NE4B
	5NE5A, 5NE5B
	5NE6A, 5NE6B
	5NE7A, 5NE7B, 5NE7D
	5NE8A, 5NE8B
	5NL0A, 5NL0B, 5NL0C, 5NL0D, 5NL0E
	5NL1A, 5NL1B, 5NL1C, 5NL1D, 5NL1E
	5NL2A, 5NL2B, 5NL2C, 5NL2D, 5NL2E
	5NL3A, 5NL3B, 5NL3C, 5NL3D, 5NL3E
	5NL4A, 5NL4B, 5NL4C, 5NL4D, 5NL4E
	5NL5A, 5NL5B, 5NL5C, 5NL5D, 5NL5E
	5NL6A, 5NL6B, 5NL6C, 5NL6D, 5NL6E
	5NL7A, 5NL7B, 5NL7C, 5NL7D, 5NL7E
	5NL8A, 5NL8B, 5NL8C, 5NL8D, 5NL8E

2. After completing Erase ALL DTCs, print a copy of the C-III plus screen showing the before and after part numbers of the control unit and attach it to the repair order.

3. Inform the customer that unleaded premium gasoline with an octane rating of at least 91 Anti Knock Index (AKI) is recommended. Refer to the owner's manual for additional fuel recommendations and cautions.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	DE97AA	ZE	32	(2)

- (1) Reference the electronic parts catalog, and use the Electronic Control Module (23703-*****) as the Primary Failed Part (PFP).
- (2) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated Flat Rate Time (FRT).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
February 22, 2019	ITB19-003	Original bulletin published