

Classification:

EC19-024

Reference:

ITB19-017

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Date:

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## 2019 QX50; MIL ON WITH DTC P0087 STORED

**APPLIED VEHICLE:** 2019 QX50 (J55)

### IF YOU CONFIRM

The Malfunction Indicator Light (MIL) is ON with Diagnostic Trouble Code (DTC) P0087 (FRP CONTROL SYSTEM) stored in the Engine Control Module (ECM),

### AND

The fuel level indicates  $\frac{1}{4}$  or less.

### ACTION

Reprogram the ECM and TCM, if applicable.

**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

**IMPORTANT:** Before starting the reprogramming procedure, make sure:

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

### HINT:

- If you are not familiar with the reprogramming procedure, *click here*. This will link to the "CONSULT-III PLUS (C-III PLUS) ECM/TCM 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 a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle battery voltage drops below 12.0V or above 15.5V during reprogramming, the ECM/TCM may be damaged.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, the ECM/TCM 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/TCM 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/TCM may be damaged.

1. Using 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**, reprogram the ECM and then proceed to step 2.
  - If it does not match any of the part numbers in **Table A**, this bulletin does not apply. Go back to ASIST for further diagnostic and repair information.

**Table A**

MODEL AND YEAR	ECM PART NUMBER: 23710 –
2019 QX50	5NC0D, 5NC1D, 5NC2D, 5NC3D, 5NC4D, 5NC5D, 5NC6D, 5NC7D, 5NC8D
	5NC0E, 5NC1E, 5NC2E, 5NC3E, 5NC4E, 5NC5E, 5NC6E, 5NC7E, 5NC8E
	5NE0A, 5NE1A, 5NE2A, 5NE3A, 5NE4A, 5NE5A, 5NE6A, 5NE7A, 5NE8A
	5NE0B, 5NE1B, 5NE2B, 5NE3B, 5NE4B, 5NE5B, 5NE6B, 5NE7B, 5NE8B
	5NE0C, 5NE1C, 5NE2C, 5NE3C, 5NE4C, 5NE5C, 5NE6C, 5NE7C, 5NE8C
	5NE0D, 5NE1D, 5NE2D, 5NE3D, 5NE4D, 5NE5D, 5NE6D, 5NE7D, 5NE8D
	5NE0E, 5NE1E, 5NE2E, 5NE3E, 5NE4E, 5NE5E, 5NE6E, 5NE7E, 5NE8E
	5NF0B, 5NF1B, 5NF2B, 5NF3B, 5NF4B, 5NF5B, 5NF6B, 5NF7B, 5NF8B
	5NF0C, 5NF1C, 5NF2C, 5NF3C, 5NF4C, 5NF5C, 5NF6C, 5NF7C, 5NF8C
	5NL0A, 5NL1A, 5NL2A, 5NL3A, 5NL4A, 5NL5A, 5NL6A, 5NL7A, 5NL8A
	5NL0B, 5NL1B, 5NL2B, 5NL3B, 5NL4B, 5NL5B, 5NL6B, 5NL7B, 5NL8B
	5NL0C, 5NL1C, 5NL2C, 5NL3C, 5NL4C, 5NL5C, 5NL6C, 5NL7C, 5NL8C
	5NL0D, 5NL1D, 5NL2D, 5NL3D, 5NL4D, 5NL5D, 5NL6D, 5NL7D, 5NL8D
	5NL0E, 5NL1E, 5NL2E, 5NL3E, 5NL4E, 5NL5E, 5NL6E, 5NL7E, 5NL8E

2. Using C-III plus, confirm the current TCM part number and write it on the repair order.
  - If it matches one of the part numbers in **Table B**, reprogram the TCM and then proceed to step 3.
  - If it does not match any of the part numbers in **Table B** proceed to step 3.

**Table B**

MODEL AND YEAR	TCM PART NUMBER: 31036 –
2019 QX50	5NA0A, 5NA0B, 5NA0C, 5NA0D

3. 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.

**CLAIMS INFORMATION**

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram the ECM	(1)	DE97AA	ZE	32	(2, 3)

- (1) Reference the electronic parts catalog, and use the ECM part number (23703-\*\*\*\*\*) as the Primary Failed Part (PFP).
- (2) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated Flat Rate Time (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.

And if needed on the same repair line

DESCRIPTION	OP CODE	SYM	DIA	FRT
Reprogram the TCM	JE99AA	ZE	32	(2)

**AMENDMENT HISTORY**

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