

Classification:  
EC19-027aReference:  
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## MIL ON WITH DTC P0087, P0101, P0448, OR P2008, VEHICLES REGISTERED OUTSIDE OF CALIFORNIA

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

**APPLIED VEHICLES:** 2016 – 2019 Q50 (V37)  
2017 – 2019 Q60 (CV37)  
2015 – 2019 QX60 (L50)

**APPLIED STATES:** Vehicles registered outside of California

### IF YOU CONFIRM

An applied vehicle has one or more DTCs stored, shown in **Table A** on page 2 **OR** a client requests to have this TSB performed,

### AND

The ECM part number is shown in **Table B**, starting on page 3.

### ACTION

1. First perform the appropriate diagnostic procedure for the stored DTC to repair the vehicle according to the Electronic Service Manual (ESM).
2. Reprogram the ECM after performing the diagnosis and repair.
  - The ECM reprogram in this Service Procedure is not a repair for the DTC, but instead updates the way the permanent DTC is stored and allowed to be erased. The DTC must be properly diagnosed and repaired before the reprogram is applied.

**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

1. Confirm that the applied vehicle has a stored code shown in **Table A**, below. Skip to step 2 if the client requested to have this TSB performed.
  - If there is a match:
    - a. Perform the diagnosis and repair procedure for the code per the ESM.
    - b. Continue to step 2.
  - If there is NOT a match, this bulletin does not apply.

**Table A**

Model	Engine	2015	2016	2017	2018	2019
Q50	VR30DDTT		P0448	P0448		
				P0087	P0087	P0087
Q60	VR30DDTT			P0448		
				P0087	P0087	P0087
QX60	VQ35DE	P0448	P0448			
		P0101	P0101			
	VQ35DD			P0448		
				P0087	P0087	P0087

2. 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 B**, starting on page 3, proceed to step 3 on page 6 to reprogram the ECM.
  - If there is not a match, no further action is required.

Table B

Model	Year	CURRENT ECM PART NUMBER: 23710-
Q50	2016	5CD5A, 5CD6A 5CD5B, 5CD6B 5CD5C, 5CD6C 5CD5D, 5CD6D 5CD5E, 5CD6E
		5CF1A, 5CF2A, 5CF3A, 5CF4A, 5CF5A, 5CF6A, 5CF7A, 5CF8A, 5CF9A 5CF1B, 5CF2B, 5CF3B, 5CF4B, 5CF5B, 5CF6B, 5CF7B, 5CF8B, 5CF9B 5CF1C, 5CF2C, 5CF3C, 5CF4C, 5CF5C, 5CF6C, 5CF7C, 5CF8C, 5CF9C 5CF1D, 5CF2D, 5CF3D, 5CF4D, 5CF5D, 5CF6D, 5CF7D, 5CF8D, 5CF9D 5CF1E, 5CF2E, 5CF3E, 5CF4E, 5CF5E, 5CF6E, 5CF7E, 5CF8E, 5CF9E
		5CH3A, 5CH4A, 5CH7A, 5CH8A, 5CH9A 5CH3B, 5CH4B, 5CH7B, 5CH8B, 5CH9B 5CH3C, 5CH4C, 5CH7C, 5CH8C, 5CH9C 5CH3D, 5CH4D, 5CH7D, 5CH8D, 5CH9D 5CH3E, 5CH4E, 5CH7E, 5CH8E, 5CH9E
		5CJ2A, 5CJ3A, 5CJ4A, 5CJ5A, 5CJ6A, 5CJ7A, 5CJ8A, 5CJ9A 5CJ2B, 5CJ3B, 5CJ4B, 5CJ5B, 5CJ6B, 5CJ7B, 5CJ8B, 5CJ9B 5CJ2C, 5CJ3C, 5CJ4C, 5CJ5C, 5CJ6C, 5CJ7C, 5CJ8C, 5CJ9C 5CJ2D, 5CJ3D, 5CJ4D, 5CJ5D, 5CJ6D, 5CJ7D, 5CJ8D, 5CJ9D 5CJ2E, 5CJ3E, 5CJ4E, 5CJ5E, 5CJ6E, 5CJ7E, 5CJ8E, 5CJ9E
	2017	6HA0A, 6HA1A, 6HA2A, 6HA3A, 6HA4A, 6HA5A, 6HA6A, 6HA7A 6HA0B, 6HA1B, 6HA2B, 6HA3B, 6HA4B, 6HA5B, 6HA6B, 6HA7B 6HA0C, 6HA1C, 6HA2C, 6HA3C, 6HA4C, 6HA5C, 6HA6C, 6HA7C 6HA0D, 6HA1D, 6HA2D, 6HA3D, 6HA4D, 6HA5D, 6HA6D, 6HA7D 6HA0E, 6HA1E, 6HA2E, 6HA3E, 6HA4E, 6HA5E, 6HA6E, 6HA7E
		6HFOA, 6HF1A, 6HF2A, 6HF3A, 6HF4A, 6HF5A, 6HF6A, 6HF7A 6HFOB, 6HF1B, 6HF2B, 6HF3B, 6HF4B, 6HF5B, 6HF6B, 6HF7B 6HF0C, 6HF1C, 6HF2C, 6HF3C, 6HF4C, 6HF5C, 6HF6C, 6HF7C 6HF0D, 6HF1D, 6HF2D, 6HF3D, 6HF4D, 6HF5D, 6HF6D, 6HF7D 6HF0E, 6HF1E, 6HF2E, 6HF3E, 6HF4E, 6HF5E, 6HF6E, 6HF7E
		6HG2A, 6HG3A, 6HG4A, 6HG5A, 6HG6A, 6HG7A, 6HG8A, 6HG9A 6HG2B, 6HG3B, 6HG4B, 6HG5B, 6HG6B, 6HG7B, 6HG8B, 6HG9B 6HG2C, 6HG3C, 6HG4C, 6HG5C, 6HG6C, 6HG7C, 6HG8C, 6HG9C 6HG2D, 6HG3D, 6HG4D, 6HG5D, 6HG6D, 6HG7D, 6HG8D, 6HG9D 6HG2E, 6HG3E, 6HG4E, 6HG5E, 6HG6E, 6HG7E, 6HG8E, 6HG9E
	2018	6HB0A, 6HB0B 6HB1A, 6HB2A, 6HB3A, 6HB4A, 6HB5A, 6HB6A, 6HB7A 6HB1B, 6HB2B, 6HB3B, 6HB4B, 6HB5B, 6HB6B, 6HB7B 6HB0C, 6HB1C, 6HB2C, 6HB3C, 6HB4C, 6HB5C, 6HB6C, 6HB7C
		6HD4A, 6HD5A, 6HD6A, 6HD7A, 6HD8A, 6HD9A 6HD4B, 6HD5B, 6HD6B, 6HD7B, 6HD8B, 6HD9B 6HD4C, 6HD5C, 6HD6C, 6HD7C, 6HD8C, 6HD9C
		6HJ0A, 6HJ1A, 6HJ2A, 6HJ3A, 6HJ4A, 6HJ5A, 6HJ6A, 6HJ7A, 6HJ8A, 6HJ9A 6HJ0B, 6HJ1B, 6HJ2B, 6HJ3B, 6HJ4B, 6HJ5B, 6HJ6B, 6HJ7B, 6HJ8B, 6HJ9B 6HJ0C, 6HJ1C, 6HJ2C, 6HJ3C, 6HJ4C, 6HJ5C, 6HJ6C, 6HJ7C, 6HJ8C, 6HJ9C
	2019	4GJ0A, 4GJ1A, 4GJ2A, 4GJ4A, 4GJ5A, 4GJ6A, 4GJ7A, 4GJ8A, 4GJ9A
		4GK0A, 4GK1A, 4GK2A, 4GK3A, 4GK4A, 4GK5A, 4GK6A, 4GK7A, 4GK8A, 4GK9A

Table B (continued)

Q60	2017	5CB0B, 5CB1B, 5CB2B, 5CB3B 5CB0C, 5CB1C, 5CB2C, 5CB3C
		5CC1B, 5CC8B, 5CC9B 5CC0C, 5CC1C, 5CC2C, 5CC8C, 5CC9C 5CC0D, 5CC1D, 5CC8D, 5CC9D 5CC0E, 5CC1E, 5CC2E, 5CC8E, 5CC9E
		5CG1B, 5CG5B, 5CG6B, 5CG7B, 5CG8B 5CG0C, 5CG1C, 5CG5C, 5CG6C, 5CG7C, 5CG8C 5CG0D, 5CG1D, 5CG5D, 5CG6D, 5CG7D, 5CG8D 5CG0E, 5CG1E, 5CG5E, 5CG6E, 5CG7E, 5CG8E
		5CH1B 5CH1C, 5CH2C, 5CH5C, 5CH6C 5CH1D, 5CH2D, 5CH5D, 5CH6D 5CH1E, 5CH2E, 5CH5E, 5CH6E
		5CJ0B, 5CJ0C, 5CJ0D, 5CJ0E 5CJ1B, 5CJ1C, 5CJ1D, 5CJ1E
		5CK1B, 5CK2B, 5CK3B, 5CK4B 5CK1C, 5CK2C, 5CK3C, 5CK4C 5CK1D, 5CK2D, 5CK3D, 5CK4D 5CK1E, 5CK2E, 5CK3E, 5CK4E
		5CL5B, 5CL6B, 5CL7B, 5CL8B 5CL5C, 5CL6C, 5CL7C, 5CL8C 5CL5D, 5CL6D, 5CL7D, 5CL8D 5CL5E, 5CL6E, 5CL7E, 5CL8E
		5CV6A, 5CV7A, 5CV8A, 5CV9A 5CV6B, 5CV7B, 5CV8B, 5CV9B 5CV6C, 5CV7C, 5CV8C, 5CV9C 5CV6D, 5CV7D, 5CV8D, 5CV9D 5CV6E, 5CV7E, 5CV8E
		2018
	4GD2A, 4GD3A, 4GD4A, 4GD5A, 4GD6A, 4GD7A, 4GD8A, 4GD9A 4GD2B, 4GD3B, 4GD4B, 4GD5B, 4GD6B, 4GD7B, 4GD8B, 4GD9B	
	4GE6A, 4GE7A, 4GE8A, 4GE9A 4GE6B, 4GE7B, 4GE8B, 4GE9B	
	4GF3A, 4GF3B 4GF6A, 4GF6B	
	4GG0A, 4GG1A, 4GG2A, 4GG3A 4GG0B, 4GG1B, 4GG2B, 4GG3B	
	4HL6A, 4HL7A 4HL6B, 4HL7B	
	2019	5CR0A, 5CR1A, 5CR2A, 5CR3A, 5CR4A, 5CR5A, 5CR6A, 5CR7A, 5CR8A, 5CR9A
		5CS0A, 5CS1A, 5CS2A, 5CS3A, 5CS4A, 5CS5A, 5CS6A, 5CS7A
		5CT0A, 5CT1A

Table B (continued)

QX60	2015	9NE4A, 9NE5A, 9NE6A, 9NE7A, 9NE8A, 9NE9A 9NE4B, 9NE5B, 9NE6B, 9NE7B, 9NE8B, 9NE9B 9NE4C, 9NE5C, 9NE6C, 9NE7C, 9NE8C, 9NE9C 9NE4D, 9NE5D, 9NE6D, 9NE7D, 9NE8D, 9NE9D 9NE4E, 9NE5E, 9NE6E, 9NE7E, 9NE8E, 9NE9E
	2016	9NFOA, 9NF1A, 9NF2A, 9NF3A, 9NF4A, 9NF5A, 9NF6A, 9NF7A 9NF0B, 9NF1B, 9NF2B, 9NF3B, 9NF4B, 9NF5B, 9NF6B, 9NF7B 9NF0C, 9NF1C, 9NF2C, 9NF3C, 9NF4C, 9NF5C, 9NF6C, 9NF7C
	2017	3JR9A, 3JR9B
		3JS9A, 3JS9B
		6JA3A, 6JA4A, 6JA5A, 6JA7A, 6JA8A, 6JA9A 6JA3B, 6JA4B, 6JA5B, 6JA7B, 6JA8B, 6JA9B 6JA3C, 6JA4C, 6JA5C, 6JA7C, 6JA8C, 6JA9C
		9NC5A, 9NC6A, 9NC7A, 9NC8A, 9NC9A 9NC5B, 9NC6B, 9NC7B, 9NC8B, 9NC9B
		9ND9A, 9ND9B
		9NJ1A, 9NJ2A 9NJ1B, 9NJ2B 9NJ1C, 9NJ2C
		9NP0A, 9NP1A, 9NP2A, 9NP3A, 9NP4A, 9NP5A, 9NP6A, 9NP7A, 9NP8A, 9NP9A 9NP0B, 9NP1B, 9NP2B, 9NP3B, 9NP4B, 9NP5B, 9NP6B, 9NP7B, 9NP8B, 9NP9B 9NP0C, 9NP1C, 9NP2C, 9NP3C, 9NP4C, 9NP5C, 9NP6C, 9NP7C, 9NP8C, 9NP9C
	9PF8A, 9PF8B, 9PF8C	
	2019	9NM0B, 9NM1B, 9NM2B, 9NM3B, 9NM4B, 9NM5B, 9NM6B, 9NM7B
		9NR0A, 9NR2A, 9NR3A, 9NR4A, 9NR6A, 9NR7A, 9NR8A 9NR0B, 9NR2B, 9NR3B, 9NR4B, 9NR6B, 9NR7B, 9NR8B 9NR0E, 9NR2E, 9NR3E, 9NR4E, 9NR6E, 9NR7E, 9NR8E

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

- ASSIST 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).

**NOTE:**

- If you are not familiar with the reprogramming procedure, *click here*. This will link you 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, you will be 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 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 VI. If Bluetooth® signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and the ECM may be damaged.

3. Reprogram the ECM.
4. 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	PPF	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	DE97AA	ZE	32	(2)

- (1) Reference the electronic parts catalog and use the ECM as the Primary Failed Part (PPF).  
(2) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated Flat Rate Time (FRT).

## AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
September 19, 2019	ITB19-027	Original bulletin published
January 8, 2020	ITB19-027a	Changes to Title, Applied Vehicles, If You Confirm, and Step 1

