TOYOTA
Technical Service Bulletin

Hesitation on Acceleration From a Slow Roll or Rolling Stop

Service Category Engine/Hybrid System

Section Engine Control **Market** USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019	Camry	

Introduction

Some 2019 model year Camry vehicles may exhibit a hesitation on acceleration from a slow roll or rolling stop under the following conditions.

- 6 mph or below
- Immediately following a 3 – 1 downshift
- Less than 40% accelerator pedal application

The Engine Control Module/ECM (SAE Term: Powertrain Control Module/PCM) logic has been modified to reduce the potential for hesitation. Follow the Repair Procedure in this bulletin to update the ECM calibration.

NOTE

This Service Bulletin requires a drive pattern to be performed after the calibration update is completed. The proper execution of these drive patterns is necessary for the drivability updates to take effect. Refer to the Repair Procedure for drive pattern details.

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Warranty Information

OP CODE	DESCRIPTION	TIME	WMI	OLD ECU PN	T1	T2
EG1912	Engine ECU Reprogramming	1.4	JTN	89661-33Y40 89661-33Y41	04	74
			4T1	89661-0X580 89661-0X581 89661-0X582		

APPLICABLE WARRANTY

- **This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 96 months or 80,000 miles, whichever occurs first, from the vehicle's in-service date.**
- **Warranty application is limited to occurrence of the specified condition described in this bulletin.**

Parts Information

WMI	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
JTN	89661-33Y40 89661-33Y41	89661-33Y42	Computer, Engine Control (ECM)	–
4T1	89661-0X580 89661-0X581 89661-0X582	89661-0X583		
–	00451-00001-LBL		Authorized Modifications Labels	1

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Parts – Dealer Support Materials Orders*.

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 14.20.019 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	DCA-8000P T	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

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Calibration Information

CALIBRATION ID	
PREVIOUS	**NEW**
8966333Q6000 8966333Q6100 8966333Q6200	8966333Q6300 / 896653374100
896653374000	

Repair Procedure

1. Confirm the condition exists.
   Does the vehicle exhibit hesitation on acceleration from a slow roll or rolling stop under ANY of the following conditions?

   - 6 mph or below
   - Immediately following a 3 – 1 downshift
   - Less than 40% accelerator pedal application

   - **YES —** Continue to step 2.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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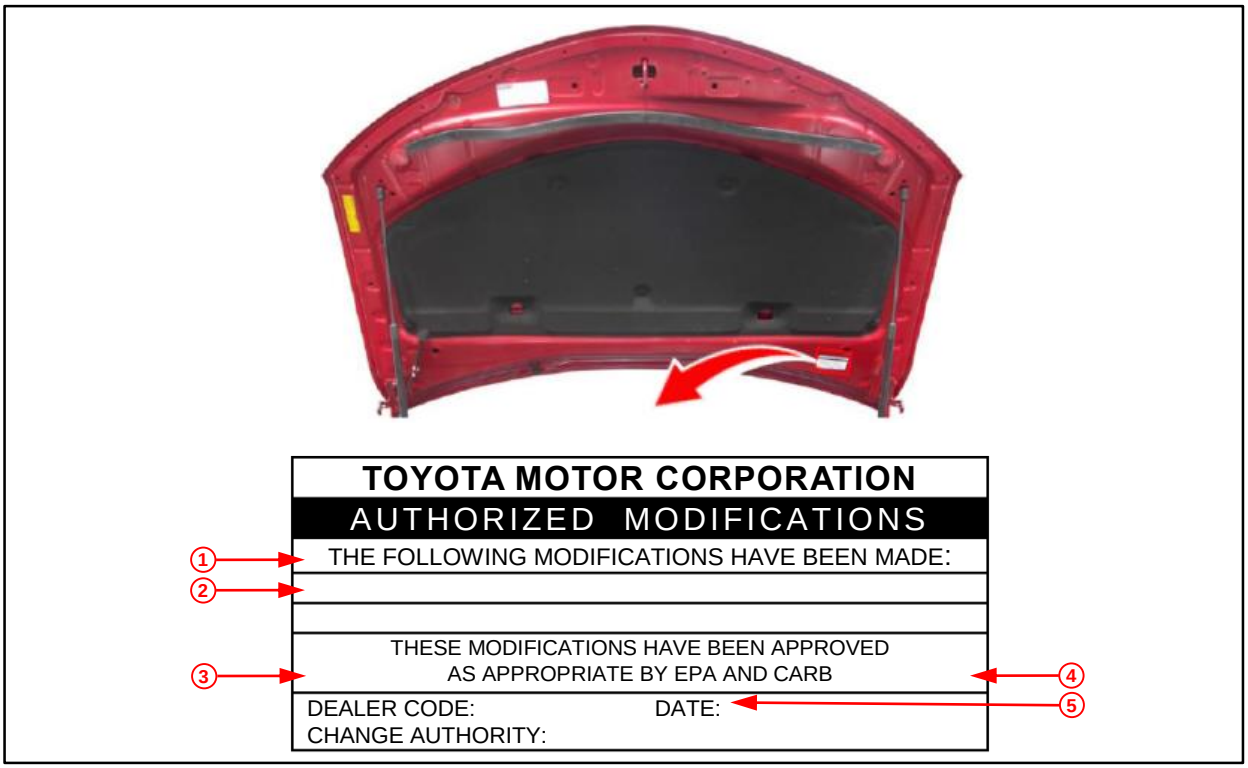
Repair Procedure (continued)

2. Use Techstream to confirm if the ECM (PCM) calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the location shown below.

   Is the calibration ID listed in Techstream and on the label the latest ECM (PCM) calibration?

   - **YES —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
   - **NO —** Continue to step 3.

Figure 1. Location of Authorized Modifications Label on 2019 Camry



1	**Replacement ECM (PCM) Part Number (e.g., 89661-33Y42)**
2	**New Calibration ID (e.g., 8966333Q6300)**
3	**Dealer Code**

4	**Date Completed**
5	**This SB Number**

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Repair Procedure (continued)

3. Flash reprogram the ECM (PCM).

NOTE
- The battery diagnostic tool MUST be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic tool, refer to the *DCA-8000 Instruction Manual* located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin T-SB-0134-16, *Techstream ECU Flash Reprogramming Procedure,* and flash the ECM (PCM) with the NEW calibration file update.

4. Prepare and install the Authorized Modifications Label.

A. Using a permanent marker, enter the following information on the label:
   - ECM (PCM) part number *[Refer to the **Parts Information** section for the **NEW PART NUMBER**]*
   - Calibration ID(s) *[Refer to the **Calibration Information** section for the **NEW CALIBRATION ID**]*
   - Dealer Code
   - Repair Date
   - Change Authority *[**This bulletin number**]*

B. Install the Authorized Modifications Label onto the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

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Repair Procedure (continued)

NOTE

- This Service Bulletin requires a drive pattern to be performed AFTER the calibration update has been completed. The proper execution of these drive patterns is necessary for the modification to take effect as soon as possible. Step 5 describes the drive pattern details.
- When performing step 5, you MUST take the vehicle to a safe, open area and/or low traffic location to perform the drive pattern.
- Use care when viewing Techstream and performing the drive patterns. Consider using another technician for Techstream confirmation of Shift Status.

5. Drive the vehicle to a safe and appropriate location where the following drive patterns can be performed. Then, perform the following drive patterns.

   A. From a speed of 18 – 22 mph, apply consistent braking to decelerate to 0 mph in 3 seconds. Complete this pattern 15 times.

      (1) Using Techstream, monitor the transmission shift status and ensure that the vehicle shifts from 3rd – 1st gear (skips 2nd gear) during each deceleration attempt.

   B. From a speed of 18 – 22 mph, apply consistent braking to decelerate to 0 mph in 15 seconds. Complete this pattern 15 times.

      (1) Using Techstream, monitor the transmission shift status and ensure that the vehicle shifts from 3rd to 2nd to 1st gear during each deceleration attempt.

6. Return the vehicle to the customer and explain that the transmission shift schedule has been modified and should adapt to the customer's driving habits as the vehicle is driven.

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