

ECM Calibration Update: Shift Feeling Enhancement

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012	Camry	Engine(s): 2AR Transmission(s): 6AT VDS(s): BF1FK

Introduction

To improve shift quality and smoothness during acceleration and deceleration, the Engine Control Module (ECM, SAE term: Powertrain Control Module/PCM) calibration has been revised. Use the following repair procedure to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	EMISSION SPECIFICATION	GRADE	OFF	T1	T2
EG1203	Recalibrate ECM (PCM) Engine	0.4	ULEV	Base, LE, XLE	89661-06K60	04	99
				SE	89661-06K70		
			PZEV	Base, LE, XLE	89661-06K80		
				SE	89661-06K90		

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.
- For 2012 4-cylinder Camry models certified as PZEV (Partial Zero Emission Vehicle) that are sold, registered, and operated in Arizona, California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, and Vermont, this repair is covered under the California Emission Warranty. This warranty is in effect for 180 months or 150,000 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.

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Parts Information

EMISSION SPEC	GRADE	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
ULEV	Base, LE, XLE	89661-06K60	89661-06K61	Computer, Engine Control (ECM/PCM)	-
	SE	89661-06K70	89661-06K71		-
PZEV	Base, LE, XLE	89661-06K80	89661-06K81		-
	SE	89661-06K90	89661-06K91		-

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
00451-00001-LBL	Same	Authorized Modification Labels	1

NOTE

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

Calibration Information

MODEL	ENGINE	TRANS	EMISSION SPEC	GRADE	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID	VDS
2012 Camry	2AR-FE	6AT	ULEV	Base, LE, XLE	50611000	50611100	BF1FK
					30679000	30679100	
				SE	50612000	50612100	
					306A3000	306A3100	
			PZEV	Base, LE, XLE	50611000	50611100	
					30680000	30680100	
				SE	50612000	50612100	
					306A4000	306A4100	

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite NOTE: Software version 7.00.020 or later is required.	ADE	TSPKG1 or TSLITEDLR01	1

NOTE

- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming with this calibration file. Please use TIS Techstream or an approved J2534 interface to perform this update. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.



SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

NOTE

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

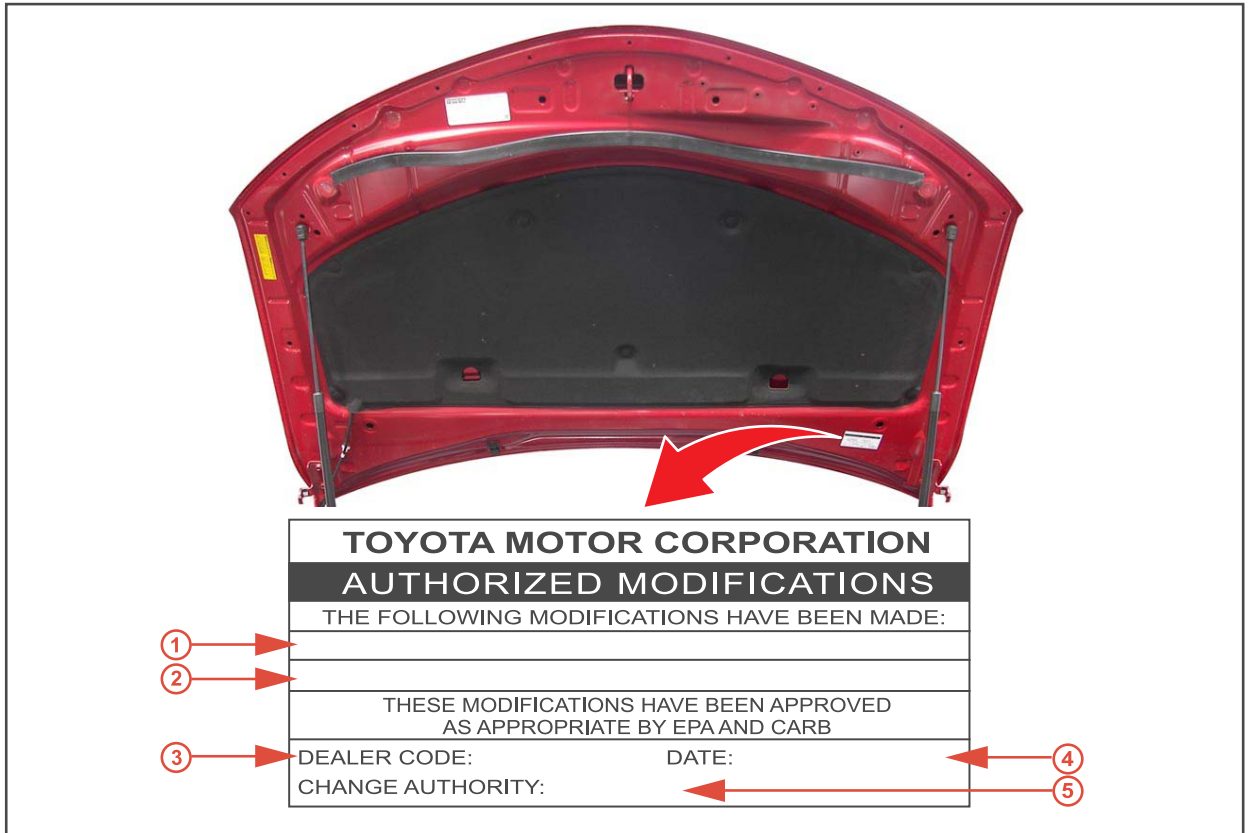
* Essential SST.

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Repair Procedure

1. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 2.

Figure 1. Location of Authorized Modifications Label on 2012 Camry



1	Replacement ECM (PCM) Part Number (i.e., 89661-06K61)
2	New Calibration ID(s) (i.e., 50611100)
3	Dealer Code

4	Date Completed
5	This TSB Number

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Repair Procedure (Continued)

- Flash reprogram the ECM (PCM).

NOTE

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5 volts while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the [GR8 Instruction Manual](#) located on the Technical Information System (TIS), *Diagnostics – Battery*.

Follow the procedures outlined in TSB No. [T-SB-0064-10](#), “Techstream ECU Flash Reprogramming Procedure”, and flash the ECM (PCM) with the NEW calibration file update.

- Start the engine and warm it up to normal operating temperature before test driving.
- Test drive the vehicle to confirm proper vehicle operation and ECM (PCM) initial learning.

Refer to the Technical Information System (TIS), applicable model year Repair Manual:

- [2012](#) Camry:
Drivetrain – Automatic Transmission/Transaxle – “U760E Automatic Transmission/Transaxle: Automatic Transaxle System: Road Test”
- Install the Authorized Modifications Label.
 - Using a permanent marker, enter the following information on the label:
 - ECM part number [Refer to the **Parts Information** section for the **CURRENT PART NUMBER**]
 - Calibration ID(s) [Refer to the **Calibration Identification Chart** for the **NEW CALIBRATION ID**]
 - Dealer Code
 - Repair Date
 - Change Authority [**This TSB number**]
 - Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.