

MIL "ON" DTC P219A or P219B (2GR-FE)

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2013	Avalon, Sienna	
2012 – 2013	Camry, Venza	

REVISION NOTICE

September 5, 2013 Rev1:

- Applicability has been updated to include 2013 model year Avalon, Sienna, and Venza vehicles.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2012 – 2013 model year Camry, Venza, and 2013 model year Avalon and Sienna vehicles equipped with 2GR-FE engines may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P219A or P219B present. The Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition occurring. Please follow the repair procedure below to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	DRIVE-TRAIN	MODEL YEAR	OFP	T1	T2
EG1235	Reprogram ECM (PCM) Engine	0.4	Avalon	–	2013	89661-07590	8A	99
			Camry	–	2012–2013	89661-06K40 89661-06K41		
			Sienna	2WD	2013	89661-08370		
				AWD		89661-08380		
			Venza	2WD	2012	89661-0T090		
				AWD		89661-0T100		
				2WD	2013	89661-0T150		
				AWD		89661-0T160		

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Warranty Information (Continued)

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

MODEL	MODEL YEAR	DRIVE-TRAIN	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
Avalon	2013	2WD	89661-07590	89661-07591	Computer, Engine Control (ECM/PCM)	—
Camry	2012–2013	2WD	89661-06K40 89661-06K41	89661-06K42		—
Sienna	2013	2WD	89661-08370	89661-08371		—
		AWD	89661-08380	89661-08381		—
Venza	2012	2WD	89661-0T090	89661-0T091		—
		AWD	89661-0T100	89661-0T101		—
	2013	2WD	89661-0T150	89661-0T151		—
		AWD	89661-0T160	89661-0T161		—
—	—	—	00451-00001-LBL		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.

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Calibration Information

MODEL	MODEL YEAR	ENGINE	DRIVETRAIN	CALIBRATION ID	
				PREVIOUS	NEW
Avalon	2013	2GR-FE	2WD	30717000	30717100
Camry	2012–2013		2WD	30677000	30677200
				30677100	
Sienna	2013		2WD	30825000	30825100
			AWD	30826000	30826100
Venza	2012		2WD	30T05000	30T05100
			AWD	30T10000	30T10100
	2013		2WD	30T17000	30T17100
		AWD	30T18000	30T18100	

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 8.20.019 or later is required.
- 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. Please 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
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

- Using Techstream, check for stored DTCs. Confirm one of the following DTCs are present:
 - P219A – Bank 1 Air-Fuel Ratio Imbalance
 - P219B – Bank 2 Air-Fuel Ratio Imbalance

If other DTCs are present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.

- Check for the Authorized Modifications Label affixed to the vehicle in the location shown in the applicable Figure below. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 3.

Figure 1. Location of Authorized Modifications Label on 2013 Avalon



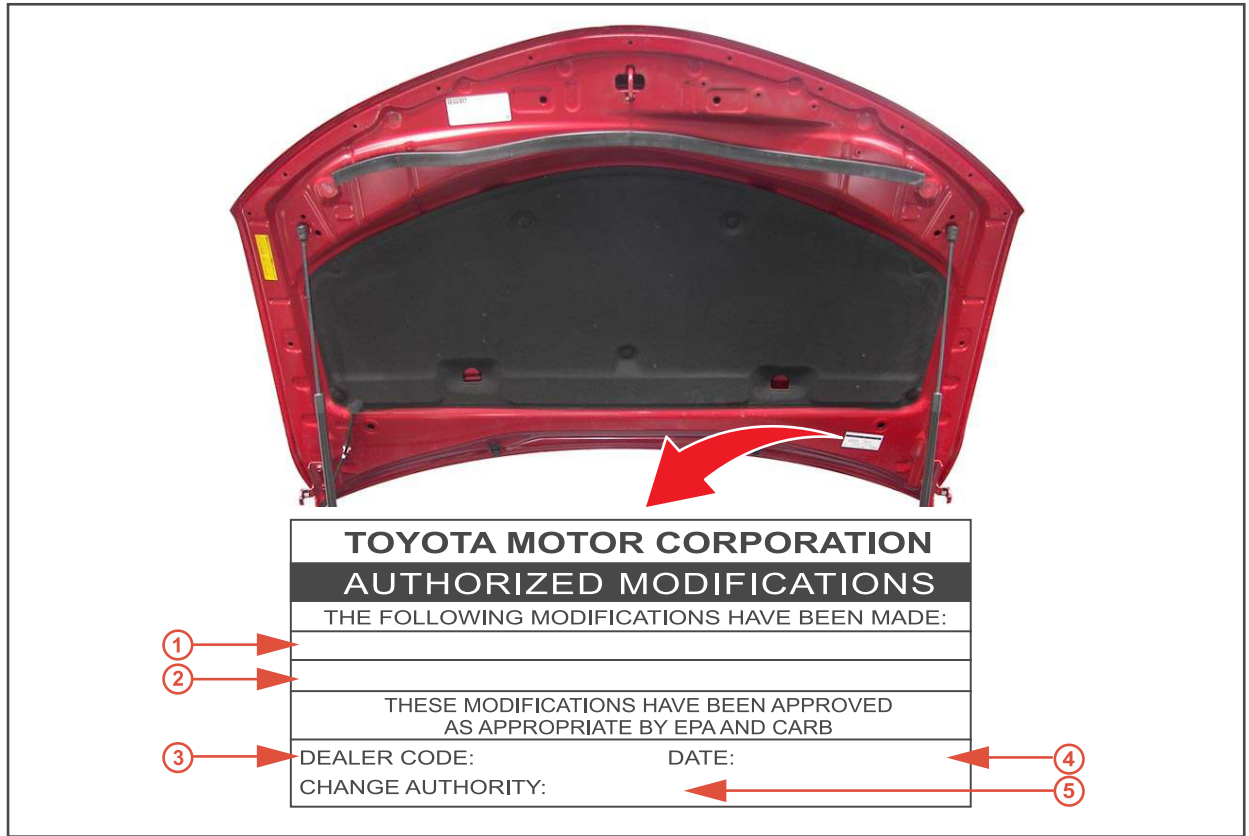
1	Replacement ECM (PCM) Part Number (i.e., 89661-07591)
2	New Calibration ID(s) (i.e., 30717100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 2. Location of Authorized Modifications Label on 2012 – 2013 Camry



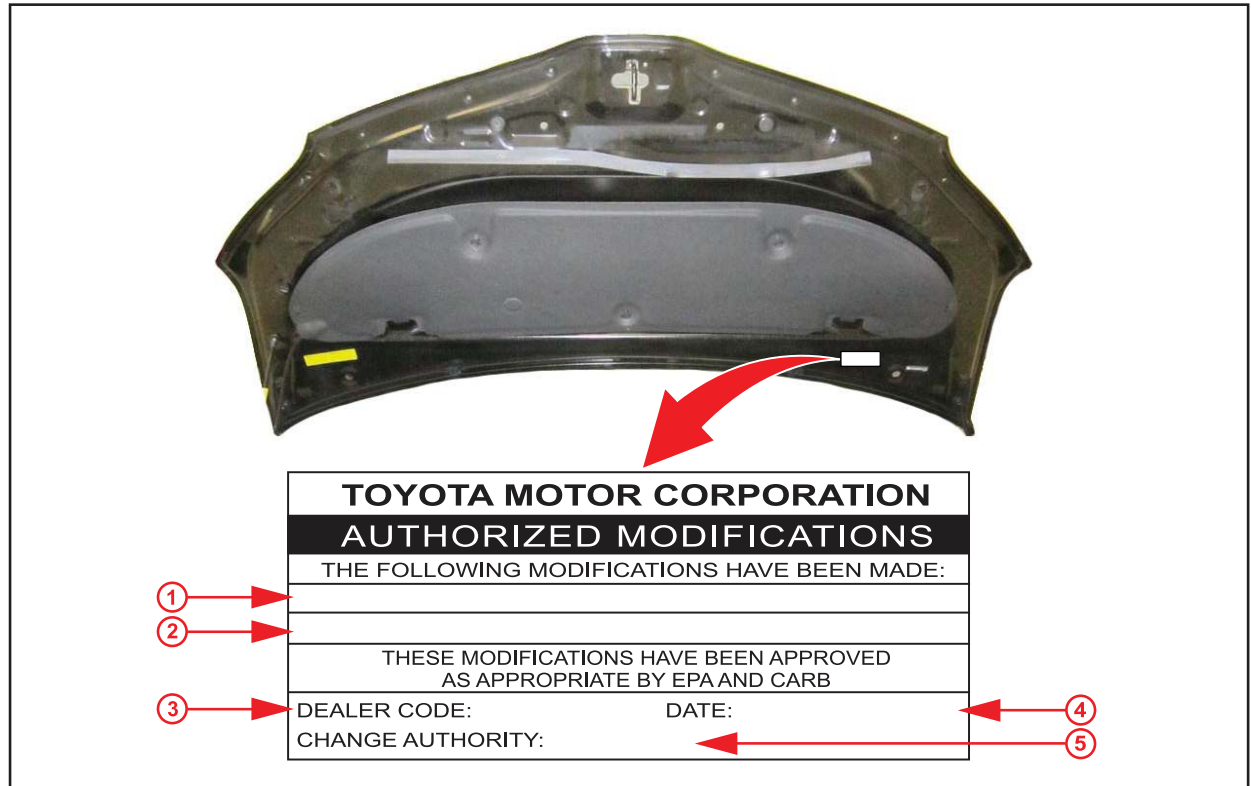
1	Replacement ECM (PCM) Part Number (i.e., 89661-06K42)
2	New Calibration ID(s) (i.e., 30677200)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 3. Location of Authorized Modifications Label on 2013 Sienna



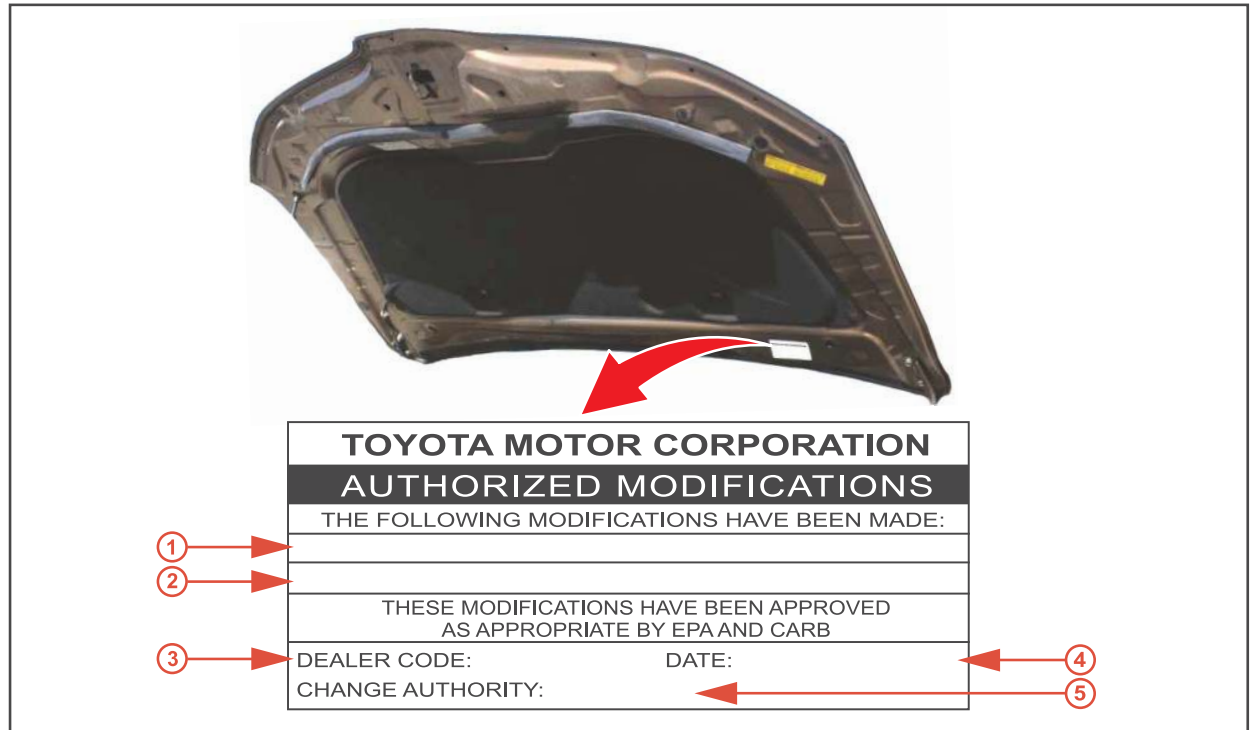
1	Replacement ECM (PCM) Part Number (i.e., 89661-08371)
2	New Calibration ID(s) (i.e., 30825100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 4. Location of Authorized Modifications Label on 2012 – 2013 Venza



1	Replacement ECM (PCM) Part Number (i.e., 89661-0T091)
2	New Calibration ID(s) (i.e., 30T05100)
3	Dealer Code

4	Date Completed
5	This SB Number

3. 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 – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin No. [T-SB-0012-13](#), "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (Continued)

4. Install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM 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. Affix the Authorized Modifications Label to the vehicle at the location shown in Figures 1 – 4. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test drive the vehicle to confirm proper vehicle operation.