

MIL "ON" DTC P211904

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2017	Highlander, Sienna	

Introduction

Some 2017 model year Highlander and Sienna vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P211904 – Throttle Actuator "A" Control Throttle Body Range/Performance System Internal Failure present. The Engine Control Module/Powertrain Control Module (ECM/PCM) logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure below to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	DRIVETRAIN	START & STOP	PRODUCTION CHANGE EFFECTIVE VIN
Highlander	TMMI West	AWD	Y	5TDJZRFH#HS433631
			N	5TDBZRFH#HS433631
		2WD	Y	5TDKZRFH#HS216576
			N	5TDZZRFH#HS216576
	TMMI East	AWD	Y	5TDJZRFH#HS516309
		2WD		5TDKZRFH#HS517245
Sienna	TMMI East	AWD	N	5TDZZ3DC#HS863189
		2WD		5TDDZ3DC#HS176531

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Warranty Information

OP CODE	MODEL	DESCRIPTION	DRIVETRAIN	S & S	TIME	OFF	T1	T2
EG1652	Highlander	Reprogram ECM (PCM)	AWD	Y	0.4	89661-0E830	8A	99
				N		89661-0E831		
			2WD	Y		89661-0E840		
				N		89661-0E841		
	Sienna		AWD	Y	0.4	89661-0E850		
				N		89661-0E851		
			2WD	Y		89661-0E860		
				N		89661-0E861		

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.

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Parts Information

MODEL	DRIVETRAIN	S & S	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
Highlander	AWD	Y	89661-0E830 89661-0E831	89661-0E832	Computer, Engine Control (ECM/PCM)	-
		N	89661-0E840 89661-0E841	89661-0E842		
	2WD	Y	89661-0E850 89661-0E851	89661-0E852		
		N	89661-0E860 89661-0E861	89661-0E862		
Sienna	AWD		89661-08443 89661-08444	89661-08445		
	2WD	89661-08163 89661-08164	89661-08165			
-	-	-	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 – Parts – Dealer Support Materials Orders*.

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Required Tools & Equipment

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

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 12.10.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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

* Essential SST.

NOTE

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

Calibration Information

MODEL	DRIVETRAIN	S&S	ECU TYPE	CALIBRATION ID	
				PREVIOUS	NEW
Highlander	AWD	Y	Main	896630E43000 896630E43100	896630E43200 / 896650E09100
			Sub	896650E09000	
		N	Main	896630E44000 896630E44100	896630E44200 / 896650E10100
			Sub	896650E10000	
	2WD	Y	Main	896630E45000 896630E45100	896630E45200 / 896650E11100
			Sub	896650E11000	

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Calibration Information (Continued)

MODEL	DRIVETRAIN	S&S	ECU TYPE	CALIBRATION ID	
				PREVIOUS	NEW
Highlander	2WD	N	Main	896630E46000 896630E46100	896630E46200 / 896650E12100
			Sub	896650E12000	
Sienna	AWD		Main	896630836000 896630836300 896630836400	896630836500 / 896650808200
			Sub	896650808000 896650808100	
	2WD		Main	896630828000 896630828300 896630828400	896630828500 / 89650807200
			Sub	896650807000 896650807100	

Repair Procedure

1. Using Techstream, check for stored DTCs.
Is DTC P211904 present?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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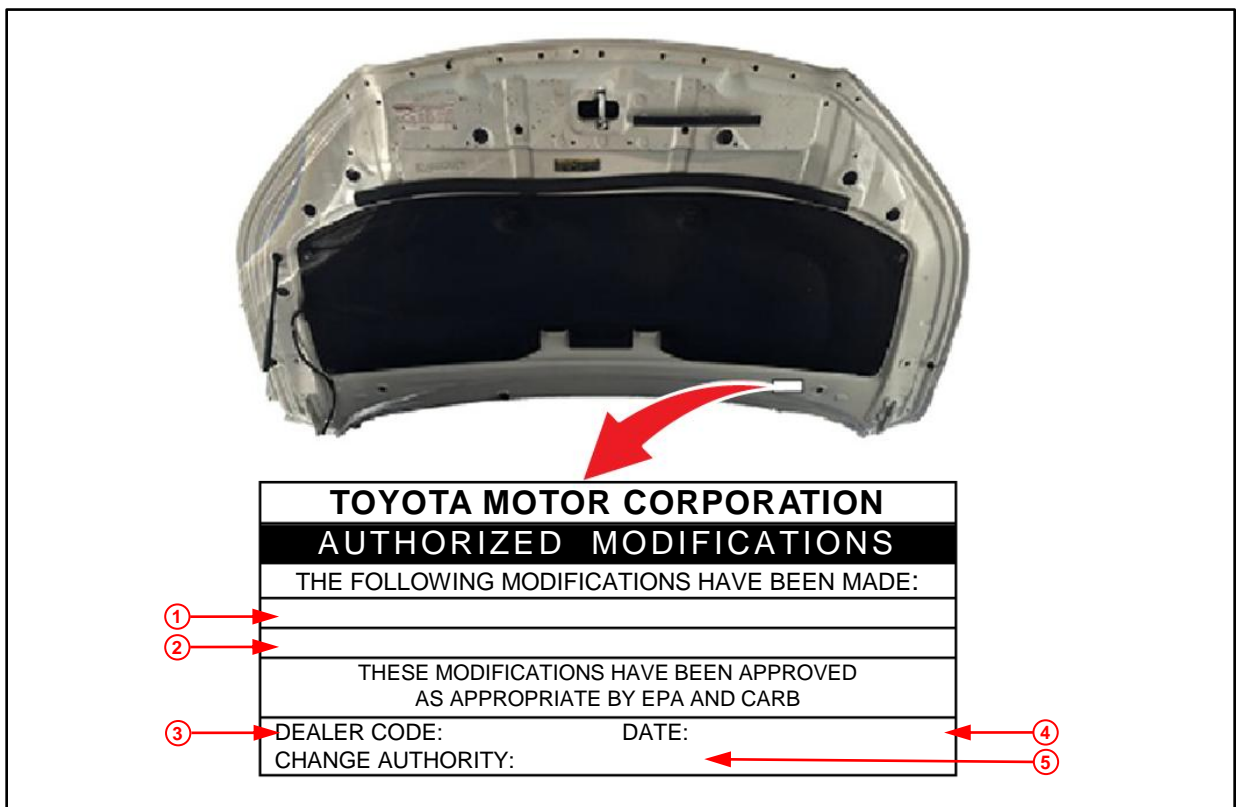
Repair Procedure (Continued)

2. Check for the Authorized Modifications Label affixed to the vehicle in the applicable locations shown below.

Is the calibration ID listed the latest ECM (PCM) calibration?

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

Figure 1. Location of Authorized Modifications Label for 2017 Highlander



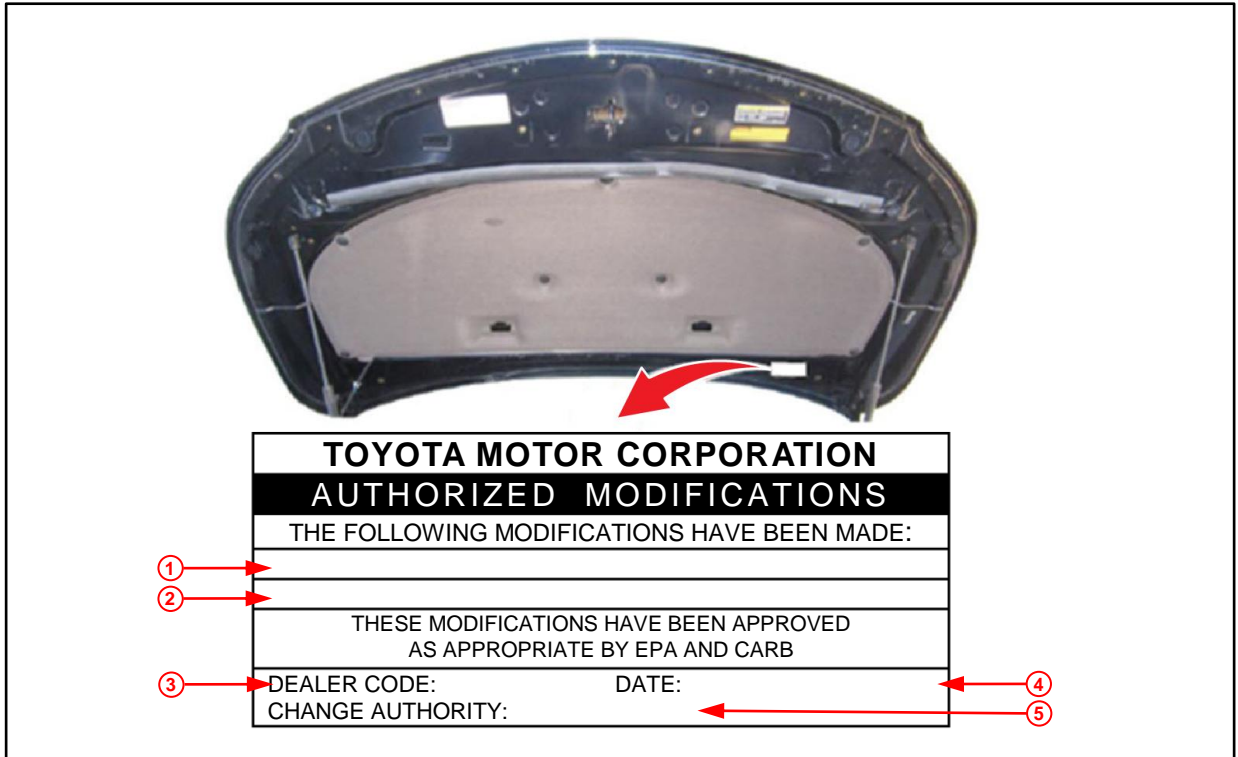
1	Replacement ECM (PCM) Part Number (i.e., 89661-0E832)
2	NEW Calibration ID(s) (i.e., 896630E43200)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 2. Location of Authorized Modifications Label for 2017 Sienna



1	Replacement ECM (PCM) Part Number (i.e., 89661-08165)
2	NEW Calibration ID(s) (i.e., 896630836500)
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 13.5V 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-0134-16](#) "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (Continued)

4. Prepare and 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 and 2. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test drive the vehicle to confirm proper vehicle operation.