

Engine Idle Surge With Steering Input

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	Tacoma	VDS(s): AZ5CN, BZ5DN, CZ5AN, DZ5BN, EZ5CN, FZ5DN, GZ5AN, HZ5BN, RZ5CN, SZ5AN

Introduction

Some 2016 – 2017 model year Tacoma vehicles equipped with a 2GR-FKS engine may exhibit an engine idle surge with steering input. The surge is most noticeable under the following conditions:

- The vehicle is operated at an idle creep speed.
- The steering wheel is turned (i.e., backing out of a garage or executing parking lot maneuvers).
- The engine coolant temperature is low.

Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1812	Reprogram ECM (PCM) Engine	0.4	89661-04K50 89661-04K51 89661-04K52 89661-04K53 89661-04K60 89661-04K61 89661-04K62	04	74

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

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89661-04K50 89661-04K51 89661-04K52 89661-04K53	89661-04K54	Computer, Engine Control (ECM/PCM)	-
89661-04K60 89661-04K61 89661-04K62	89661-04K63		
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*.

Required Tools & Equipment

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

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 13.10.019 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.

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Required Tools & Equipment (continued)

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

ENGINE	TRANSMISSION	ECU TYPE	CALIBRATION ID	
			PREVIOUS	NEW
2GR-FKS	6AT	Main	8966304B0300 8966304B0200 8966304B0100 8966304B0000	8966304B0400
		Sub	896650401300 896650401200 896650401100 896650401000	896650401400
	6MT	Main	8966304B1200	8966304B1300

Repair Procedure

- Does the vehicle exhibit an engine idle surge with steering input under the conditions described in the Introduction?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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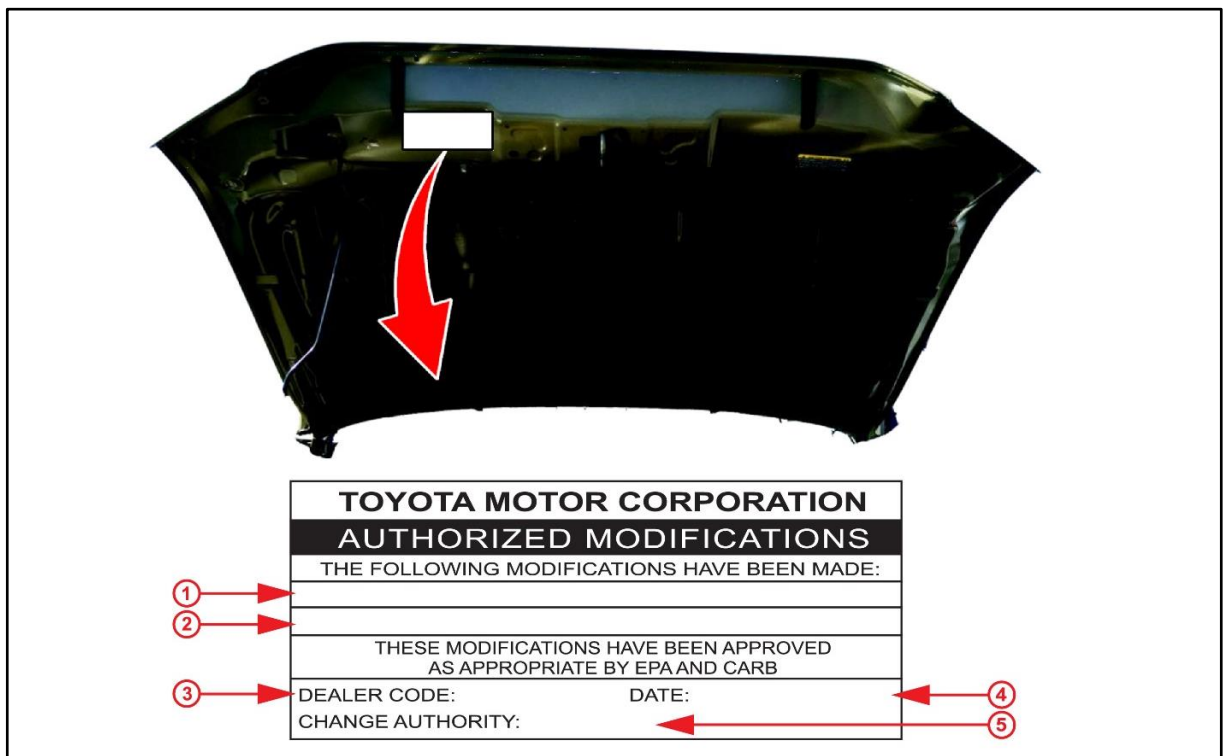
Repair Procedure (continued)

- Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the ECM (PCM) calibration has been updated.

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 3.

Figure 1. Location of Authorized Modifications Label for 2016–2017 Tacoma



1	Replacement ECM (PCM) Part Number (i.e., 89661-04K54)
2	New Calibration ID(s) (i.e., 8966304B0400)
3	Dealer Code

4	Date Completed
5	This SB 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 13.5V while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the [GR8 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in the Service Bulletin No. [T-SB-0134-16](#), *Techstream ECU Flash Reprogramming Procedure*, and flash the ECM (PCM) with the NEW calibration file update.

- Prepare and 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 **NEW PART NUMBER**]
 - Calibration ID(s) [Refer to the **Calibration Information** section for the **NEW CALIBRATION**]
 - Dealer Code
 - Repair Date
 - Change Authority [**This bulletin number**]
 - Install 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.
- Start the engine and verify the condition is resolved.
- Warm up the engine to normal operating temperature and test-drive the vehicle to confirm proper operation.