

# Vehicle Surge Between 40 and 50 mph

**Service Category** Drivetrain

**Section** Automatic Transmission/Transaxle

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	Tacoma	WMI(s): 3TM, 5YF VDS(s): AZ5CN, BZ5DN, CZ5AN, DZ5BN, EZ5CN, GZ5AN, HZ5BN, RZ5CN, SZ5AN Engine(s): 2GR Transmission(s): 6AT

## Introduction

Some 2016 – 2017 model year Tacoma vehicles equipped with a 2GR engine and an AC60 transmission may exhibit a surge feeling under the following conditions:

- Vehicle is traveling between 40 – 50 mph
- Transmission is in fourth or fifth gear
- During torque converter lock-up

The Engine Control Module/ECM (SAE Term: Powertrain Control Module/PCM) logic has been revised to address this condition. Follow the Repair Procedure in this bulletin to address this condition.

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### Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1810	Reprogram ECM (PCM)	0.4	89661-04K53 89661-04K52 89661-04K51 89661-04K50 89661-04K62 89661-04K61 89661-04K60 89661-04K71-A 89661-04K70	03	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.

### Parts Information

ENGINE	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
2GR-FKS	89661-04K53	89661-04K54	Computer, Engine Control (ECM/PCM)	-
	89661-04K52			
	89661-04K51			
	89661-04K50			
	89661-04K62	89661-04K63		
	89661-04K61			
89661-04K60				
-	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 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](http://techinfo.toyota.com) for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	1

\* Essential SST.

**NOTE**

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

### Calibration Information

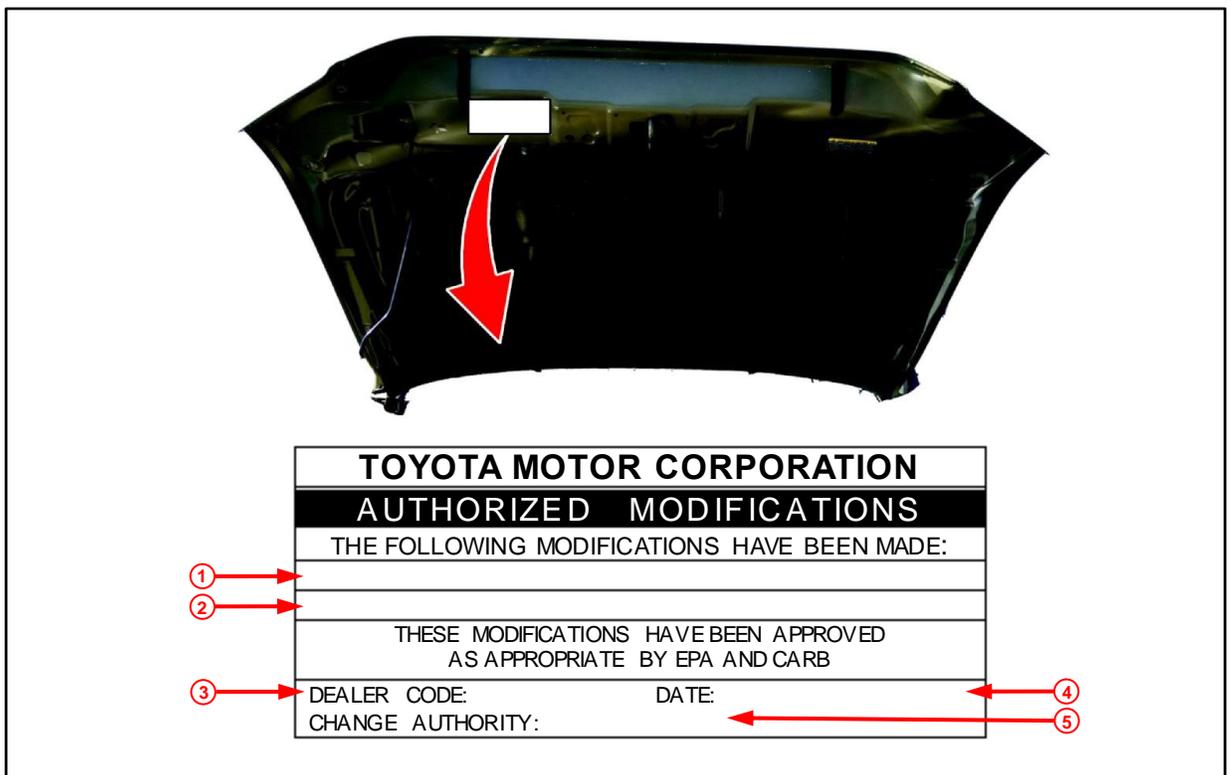
MODEL	ENGINE	CALIBRATION ID	
		PREVIOUS	NEW
Tacoma	2GR-FKS	8966304B0300	<a href="#">8966304B0400</a>
		8966304B0200	
		8966304B0100	
		8966304B0000	
		8966304B1200	<a href="#">8966304B1300</a>

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### Repair Procedure

1. Confirm the condition exists.  
Does the vehicle exhibit a surge during torque converter lock up in fourth or fifth gear?
  - **YES** — Continue to step 2.
  - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  
2. 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**



<b>1</b>	<b>Replacement ECM (PCM) Part Number (e.g., 89661-04K54)</b>
<b>2</b>	<b>New Calibration ID (e.g., 8966304B0400)</b>
<b>3</b>	<b>Dealer Code</b>

<b>4</b>	<b>Date Completed</b>
<b>5</b>	<b>This SB Number</b>

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### Repair Procedure (continued)

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

5. Start the engine and warm it up to normal operating temperature and test drive to confirm proper vehicle operation.