

Shudder on Deceleration After a Cold Soak

Service
Category Drivetrain

Section Automatic Transmission/Transaxle

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012 – 2014	Tacoma	Transmission(s): 4AT

Introduction

Some 2012 – 2014 model year Tacoma vehicles equipped with the A340 automatic transmission may exhibit a shudder condition on deceleration at approximately 20 mph after the vehicle has cold soaked. The Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition occurring. Use the following procedure to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1402	Reprogram ECM (PCM)	0.4	89661-04F80 89661-04F90 89661-04J10 89661-04J20	04	99

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 YEAR	TRANS	DRIVETRAIN	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
2012	A340	2WD	89661-04F80	89661-04F81	Computer, Engine Control (ECM/PCM)	—
		4WD / PreRunner	89661-04F90	89661-04F91		—
2013 – 2014		2WD	89661-04J10	89661-04J11		—
		4WD / PreRunner	89661-04J20	89661-04J21		—

PART NUMBER	PART NAME	QTY
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*.

Calibration Information

MODEL	TRANS	MODEL YEAR	DRIVETRAIN	CALIBRATION ID		VDS
				PREVIOUS	NEW	
Tacoma	A340	2012	2WD	30471000	30471100	NX4CN TX4CN JX4CN
			4WD / PreRunner	30472000	30472100	TX4GN JX4GN PX4EN UX4EN
		2013 – 2014	2WD	30485000	30485100	NX4CN TX4CN JX4CN
			4WD / PreRunner	30486000	30486100	TX4GN JX4GN PX4EN UX4EN

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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 9.00.026 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.

Repair Procedure

1. Confirm the condition.

Is there a shudder/vibration felt on deceleration at approximately 20 mph after the vehicle has cold soaked?

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

2. Is the shudder/vibration gone after the vehicle has reached operating temperature?

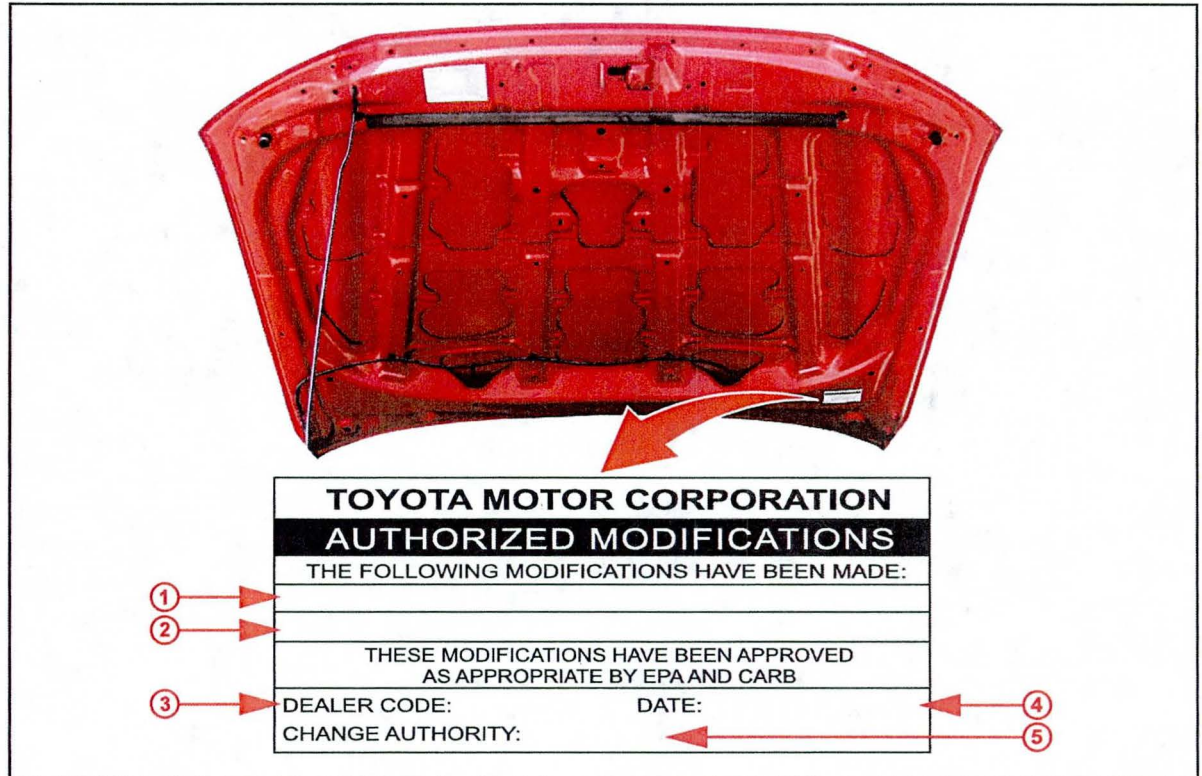
- **YES** — Continue to step 3.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (Continued)

3. 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 4.

Figure 1. Location of Authorized Modifications Label on 2012 - 2014 Tacoma



1	Replacement ECM (PCM) Part Number (i.e., 89661-04F81)
2	New Calibration ID(s) (i.e., 30471100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

4. 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.

5. Disconnect the negative (–) battery terminal for 1 minute to clear the ECM learned values.

NOTE

There is **NOT** a Techstream utility to Reset Memory on a Tacoma equipped with an A340 transmission.

6. Test drive and confirm the repair.
7. 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 Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.