

MIL "ON" DTC P2440/P2442

Service Category Engine/Hybrid System

Section Emission Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2014 - 2016	Tundra	VDS(s): DM5F1, EM5F1, RM5F1, UM5F1

Introduction

Some 2014 – 2016 model year Tundra (1UR-FE) vehicles may exhibit a MIL “ON” condition with Diagnostic Trouble Code (DTC) P2440 (Secondary Air Injection System Switching Valve Stuck Open, Bank 1), or P2442 (Secondary Air Injection System Switching Valve Stuck Open, Bank 2), and under some conditions may enter limp mode (limited throttle input ~ 25mph). This condition can be triggered by sub-freezing ambient temperatures. Follow the Repair Procedure below to address this condition.

Production Change Information

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

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Tundra	TMMTX	5TF#M5F1#GX [REDACTED]

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1610	Reprogram ECM (PCM)	0.4	89661-0CN60 89661-0CN61 89661-0CM10 89661-0CM11	8A	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.

Parts Information

MODEL	ENGINE	DRIVETRAIN	PART NUMBER		PART NAME	QTY
			PREVIOUS ECU PN	NEW ECU PN		
Tundra	1UR-FE	2WD STD	89661-0CN60 89661-0CN61	89661-0CN62	Computer, Engine Control	1
		4WD STD	89661-0CN60 89661-0CN61			1
		2WD TOW	89661-0CM10 89661-0CM11	89661-0CM12		1
		4WD TOW	89661-0CM10 89661-0CM11			1
All	All	All	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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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 11.10.034 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.

Calibration Information

MODEL	ENGINE	DRIVETRAIN	CALIBRATION ID	
			PREVIOUS	NEW
Tundra	1UR-FE	2WD STD	30CL5000 30CL5100	30CL5200
		4WD STD	30CL5001 30CL5101	30CL5201
		2WD TOW	30CM1000 30CM1100	30CM1200
		4WD TOW	30CM1001 30CM1101	30CM1201

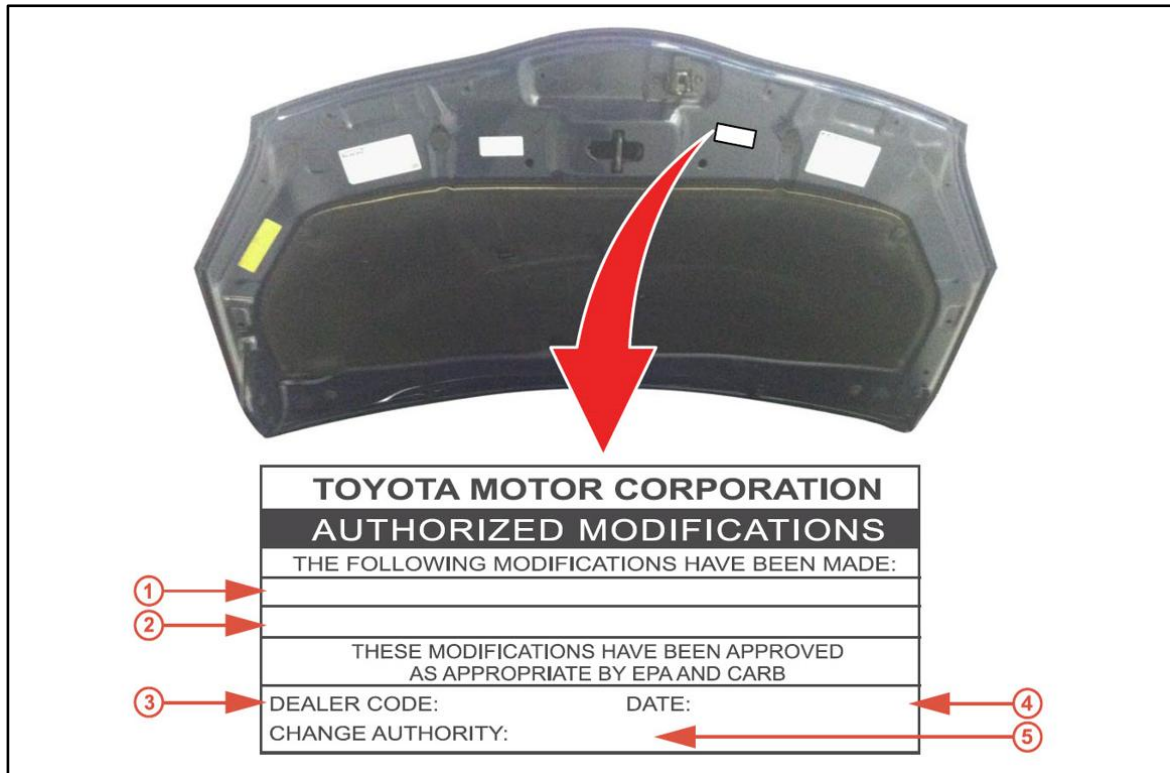
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Repair Procedure

1. Confirm the condition as described in the Introduction.
Using Techstream, perform a Health Check. Was DTC P2440 or P2442 retrieved?
 - **YES** — Go 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 in Figure 1 below. Confirm if the ECM (PCM) calibration has been updated.
Is the calibration ID listed NOT the latest ECM (PCM) calibration?
 - **YES** — Go to step 3.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Location of Authorized Modification label for 2014 – 2016 Tundra



1	Replacement ECM (PCM) Part Number (i.e., 89681-76011)
2	New Calibration ID (i.e., 30CL5200)
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 13.5 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.

- 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**]
 - 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.
- Test drive the vehicle to confirm proper vehicle operation.