

Service

Category Engine/Hybrid System

Section

**Emission Control** 

Market USA



#### **Applicability**

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2014 – 2015	Sequoia		
2014 – 2015	Tundra		

#### Introduction

Some 2014 – 2015 model year Sequoia and Tundra vehicles equipped with 3UR engines may exhibit a MIL "ON" condition with the following Diagnostic Trouble Codes (DTCs):

- P2440: Secondary Air Injection System Switching Valve Stuck Open Bank 1
- P2442: Secondary Air Injection System Switching Valve Stuck Open Bank 2

This condition may be caused by debris/ice in the air switching valve assembly. The Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) logic has been changed to reduce the possibility of this condition occurring. Use the following procedure to reprogram the ECM (PCM).

#### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1408	Reprogram ECM (PCM) Engine	0.4	89661-0CL20 89661-0CL21 89661-0CN80 89661-0CN81 89661-0CP00 89661-0CP10 89661-0CP11 89661-0CP30 89661-0CP31 89661-0CP40 89661-0CP41 89661-0CP70 89661-0CP71 89661-0CP70	8A	99



#### Warranty Information (Continued)

#### **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.

#### Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	4
Techstream Lite	ADE	TSLITEPDLR01	

#### NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 9.30.029 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 <u>techinfo.toyota.com</u> 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.

<sup>\*</sup> Essential SST.



#### Parts Information

				SEQUOIA		·	
MODEL YEAR	ENGINE	TRANS	OPTION	PART N	IUMBER		ΩΤΥ
WODEL TEAR	ENGINE	IRANS	OPTION	PREVIOUS	NEW	PART NAME	
2014 – 2015	3UR-FE	2WD		89661-0CN80 89661-0CN81	20004 201100	Computer, Engine Control (ECM/PCM)	
		4WD	_		89661-0CN82		_
		2WD	2WD Towing	89661-0CL20	55554 551 55		
		4WD		89661-0CL21	89661-0CL22		-
	2110 505	NID 555 (14/5)	-	89661-0CP70	20004 20072	1	
	3UR-FBE	4WD Towing 89661-00		89661-0CP71	89661-0CP72		-

TUNDRA									
MODEL YEAR	ENGINE	TRANS	OPTION	PART N	IUMBER	DADT NAME			
MODEL TEAK	ENGINE	IRANS	OFTION	PREVIOUS	NEW	PART NAME	QTY		
		2WD		89661-0CP00	80CC4 0CD02				
2014 – 2015	3UR-FE	4WD	] -	89661-0CP01	89661-0CP02		-		
	JUK-FE	2WD	Taurian	89661-0CP10	2224 22542	1			
		4WD	Towing	89661-0CP11	89661-0CP12		-		
	3UR-FBE	BUR-FBE 4WD	-	89661-0CP30 89661-0CP31	89661-0CP32		-		
			Towing	89661-0CP40 89661-0CP41	89661-0CP42	Computer, Engine Control (ECM/PCM)	-		
		2WD	Towing,			(ECIVIFCIVI)			
2015	3UR-FE	4WD	Large Fuel Tank	89661-0CP80	89661-0CP81		-		
2015	3UR-FBE	4WD	Towing, Large Fuel Tank	89661-0CP90	89661-0CP91		_		

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**

SEQUOIA								
MODEL YEAR	ENCINE	TRANS		ECU	CALIBRATION ID			
MODEL YEAR	R ENGINE	IKANS	OPTION	ECO	PREVIOUS	NEW		
		2WD		Main	30CJ4000 30CJ4100	30CJ4200 / 50C88100		
				Sub	50C88000			
	3UR-FE	4WD	_	]	Main	30CJ4001 30CJ4101	30CJ4201 / 50C88101	
				Sub	50C88001			
2014 – 2015		2WD	Towing	Main	30CG3000 30CG3100	30CG3200 / 50C87100		
,				Sub	50C87000			
				Main	30CG3001 30CG3101	30CG3201 / 50C87101		
				Sub	50C87001			
	3UR-FBE	4WD		Main	30CM0000 30CM0100	30CM0200 / 50CA2100		
	00.00		Towing	Sub	50CA2000			



# **Calibration Information (Continued)**

				TUNDRA		
MODEL YEAR	ENGINE	TRANS	OPTION	ECU	С	ALIBRATION ID
MODEL TEAK	LITOINE	III	OFTION	200	PREVIOUS	NEW
		2WD		Main	30CL0000 30CL0100	30CL0200 / 50C80100
				Sub	50C80000	
	:	4WD	1.5	Main	30CL0001 30CL0101	30CL0201 / 50C80101
	3UR-FE			Sub	50C80001	
	JUN-FE	2WD	N	Main	30CL1000 30CL1100	30CL1200 / 50C81100
2014 – 2015			Towing	Sub	50C81000	
		4WD		Main	30CL1001 30CL1101	30CL1201 / 50C81101
				Sub	50C81001	
		BE 4WD	- Towing	Main	30CL3000 30CL3100	30CL3200 / 50C83100
	3UR-FBE			Sub	50C83000	
	30K-FBE			Main	30CL4000 30CL4100	30CL4200 / 50C84100
				Sub	50C84000	
		2WD		Main	30CM2000	20CM2400 / E0CP4400
	3UR-FE	2000		Sub	50C81000	30CM2100 / 50C81100
2015	JUNTE	4WD	Towing, Large Fuel	Main	30CM2001	20CM2101 / 50C91401
2010		4000	Tank	Sub	50C81101	30CM2101 / 50C81101
	3UR-FBE	4WD		Main	30CM3000	20CM2100 / 50C94100
	JOIN DE	7770		Sub	50C84000	30CM3100 / 50C84100

#### Repair Procedure

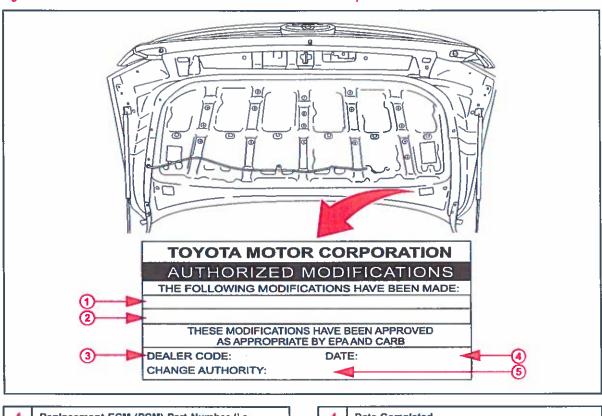
**TOYOTA** 

- 1. Using Techstream, confirm one of more of the following DTCs is present:
  - P2440: Secondary Air Injection System Switching Valve Stuck Open Bank 1
  - P2442: Secondary Air Injection System Switching Valve Stuck Open Bank 2

If any of the above DTCs is present, reprogram the ECM (PCM). Proceed to step 2.

- 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 3.
  - If the calibration ID listed is the latest ECM (PCM) calibration this bulletin does NOT apply.
    Continue diagnosis using the applicable Repair Manual.

Figure 1. Location of Authorized Modifications Label on 2014 – 2015 Sequoia and Tundra



Page 6 of 7

#### 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 13.5 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. <u>T-SB-0012-13</u>, "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

- 4. 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.
- 5. Test drive the vehicle to confirm proper vehicle operation.

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