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Product Quality and Service Support, Quality Compliance  
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To: All Toyota Dealers  
From: Product Support Division

**Limited Service Campaign (LSC) F0A**  
**Certain 2012-2014 Model Year Tundra and Sequoia Vehicles**  
**ECM Software Update**

In our continuing efforts to ensure the best in customer satisfaction, Toyota is launching a Limited Service Campaign (LSC) on certain 2012 – 2014 MY Tundra and Sequoia vehicles. This LSC will cover approximately 39,000 Sequoia and 247,000 Tundra vehicles equipped with a 5.7 liter gasoline or 5.7 Liter-Flex Fuel engines.

- **Toyota will begin to notify owners whose vehicle is covered by this Limited Service Campaign in Mid-January, 2015.**
- A Dealer Letter containing additional information (i.e. Technical Instructions, reimbursement procedures, etc.) has been posted on TIS.
- ***Please refer to TIS for vehicle applicability and additional information.***

**Customer and Media Contacts**

- A FAQ has been attached for your use in the event you receive a customer contact. If a customer has further questions, please direct the inquiry to the Toyota Customer Experience Center at 1-800-331-4331.
  - If you are a dealership associate and have any questions, please contact your District Service/Parts Manager.
  - ***In the event you are contacted by the News media***, it is imperative that all media contacts (local and national) receive a consistent message. Please direct all media contacts to Cindy Knight (310) 468-2170, in Toyota Corporate Communications. (Please do not provide these numbers to customers or call if you are a dealer associate. Please provide these contacts to only media associates.)
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Limited Service Campaign (LSC) – F0A  
Certain 2012 – 2014 Model Year Tundra and Sequoia Vehicles  
ECM Software Update – FAQ

## Frequently Asked Questions

Published Early January, 2015

**Q1: What is the condition?**

A1: In certain 2012 – 2014 Model Year Toyota Tundra and Sequoia vehicles equipped with a 5.7 Liter gasoline or 5.7 Liter-Flex Fuel engines, the Engine Control Module (ECM) may set a Diagnostic Trouble Code (DTC) if debris/ice becomes lodged in the air switching valve. If this occurs, the Malfunction Indicator (Check Engine) Light could illuminate and the vehicle could enter a “Fail-Safe” Mode (also known as “Limp-Home” Mode). If this occurs the vehicle’s power and speed will be reduced, which could inconvenience you and require immediate repair.

**Q2: What is the cause of this condition?**

A2: The current Air Injection System Control Logic may not clear itself of debris/ice that may become lodged at the air switching valve. If this condition occurs, the vehicle may set a DTC and could enter a “Fail-Safe” Mode (also known as “Limp-Home” Mode).

**Q2a: What is an air switching valve?**

A2a: The air switching valve is a component of the secondary air injection system, which is an emissions control system that operates briefly when a cold engine is first started. It provides oxygen directly to the exhaust stream, increasing the catalytic-converter efficiency, decreasing the vehicle's overall emissions output.

**Q3: Are there any symptoms that this condition exists?**

A3: If the condition is present, your vehicle’s Check Engine Light will illuminate and the vehicle will enter “Fail-Safe” Mode. This mode reduces the vehicle’s power and speed, which could inconvenience you and require immediate repair.

*Please note that the Check Engine Lamp may illuminate for reasons unrelated to this condition.*

**Q4: What is Toyota going to do?**

A4: Owners of the vehicles covered by this Limited Service Campaign (LSC) will receive an owner notification letter by first class mail starting in Mid-January 2015.

The ECM calibration has been updated to reduce the possibility of this condition occurring. Any authorized Toyota dealer will verify your vehicle's ECM calibration and, if necessary, update the calibration software at **NO CHARGE** to you.

**NOTE (Customers who live in the state of California and do not have this LSC performed):**

The State of California requires the completion of Limited Service Campaigns on emission related parts prior to vehicle registration renewal. In addition, the State requires that every vehicle must pass an emission test (SMOG Check) every two years and before it is sold. Without the completion of this **no cost** Limited Service Campaign, a vehicle in the state of CA may be more likely to fail this test. State of California regulations require Toyota to provide the Department of Motor Vehicles with a record of all vehicles that have not had the Limited Service Campaign completed.

A Toyota dealer will provide you with a Vehicle Emissions Recall Proof of Correction Form after the campaign has been completed. Please ensure you retain this form since the DMV may require that you supply proof that the campaign has been completed during your vehicle registration renewal process.

**Q5: Which and how many vehicles are covered by this Limited Service Campaign?**

A5: There are approximately 286,000 Tundra and Sequoia vehicles covered by this Limited Service Campaign.

Model	MY	Production Date Range	Approximate UIO
Tundra	Certain 2012 – 2014	Late August, 2011 – Early September, 2014	247,000
Sequoia			39,000

**Q5a: Are there any other Toyota or Lexus vehicles covered?**

A5a: No, only certain 2012 through 2014 Model Year Toyota Tundra and Sequoia vehicles, equipped with a 5.7 Liter gasoline or 5.7 Liter-Flex Fuel, are covered by this Limited Service Campaign in the U.S.

**Q6: How long will the repair take?**

A6: Verifying the ECM calibration number and/or updating the software will take approximately 30 minutes; however, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

**Q7: When will this Limited Service Campaign Expire?**

A7: This Limited Service Campaign will be available until **February 28, 2016**, and will only be available at an authorized Toyota Dealer.

**Q8: What if an owner has additional questions or concerns?**

A8: Owners with questions or concerns are asked to please contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 5:00 am to 6:00 pm, or Saturday 7:00 am through 4:00 pm Pacific Time.



**TECHNICAL INSTRUCTIONS  
FOR  
LIMITED SERVICE CAMPAIGN F0A  
ECM SOFTWARE UPDATE  
CERTAIN 2012-2014 TUNDRA  
CERTAIN 2012-2014 SEQUOIA**

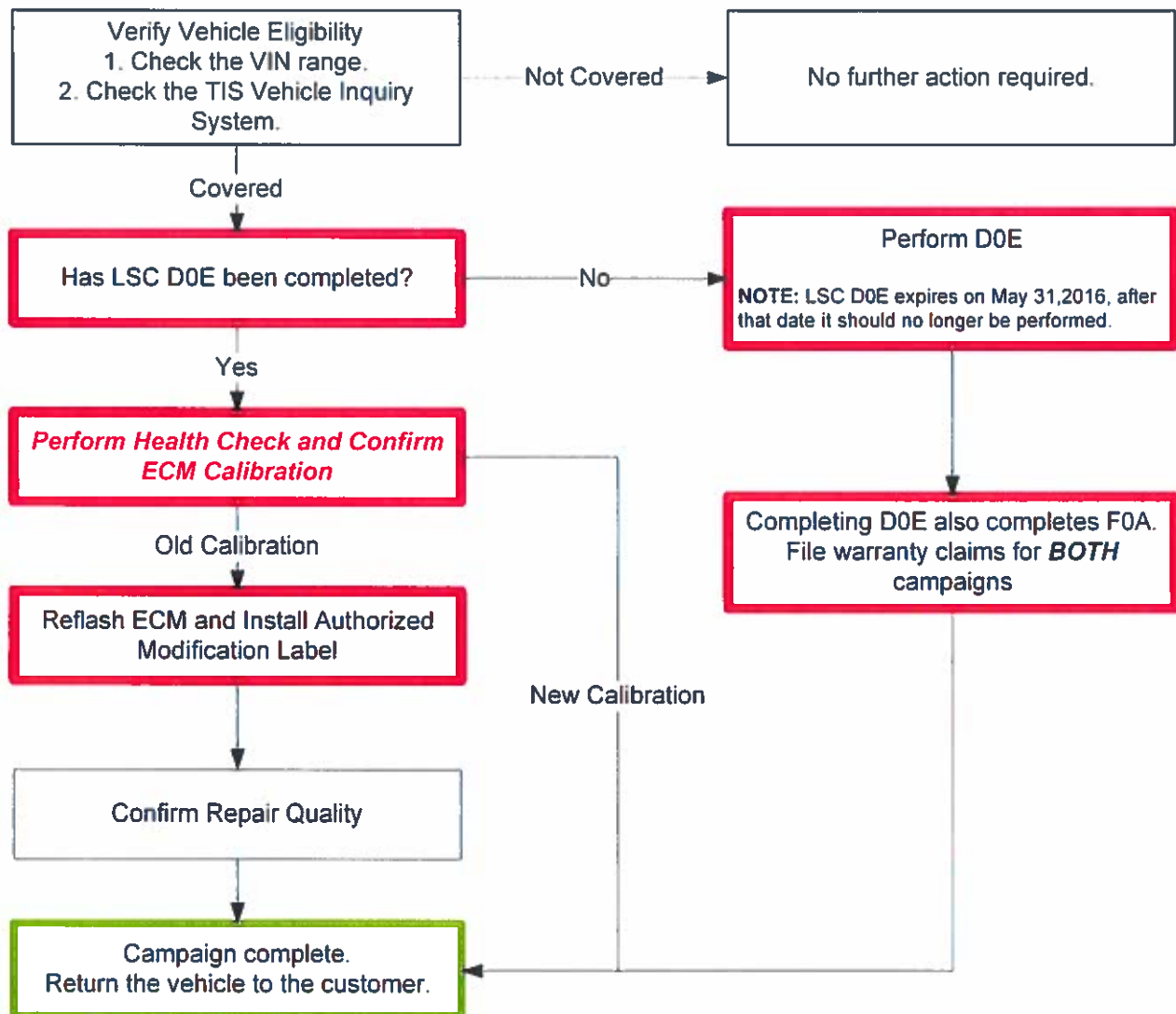
**THIS LSC EXPIRES ON FEBRUARY 28, 2016**

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All dealership associates involved in the LSC process are required to successfully complete E-Learning course SC13A. To ensure that all vehicles have the repair performed correctly; technicians performing this LSC repair are required to currently hold at least one of the following certifications levels:

- Toyota Certified (any classifications)
- Toyota Expert (any classifications)
- Master
- Master Diagnostic Technicians

## I. OPERATION FLOW CHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

### A. COVERED VIN RANGE

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

## III. PREPARATION

### A. PARTS

Part Number	Part Description	Quantity
00451-00001-LBL	Authorized Modification Label*	1

\*Labels can be ordered in packs of 25 from the MDC through Dealer Daily website

### B. TOOLS & EQUIPMENT

- Techstream 2.0 / TIS Techstream /Techstream Lite (Software 9.30.029 or Higher)
- GR8 Battery Diagnostic Station

## IV. BACKGROUND

In certain 2012 – 2014 Model Year Toyota Tundra and Sequoia vehicles equipped with a 5.7 Liter gasoline or 5.7 Liter-Flex Fuel engines, the Engine Control Module (ECM) may set a Diagnostic Trouble Code (DTC) if debris/ice becomes lodged in the air switching valve. If this occurs, the Malfunction Indicator (Check Engine) Light could illuminate and the vehicle could enter a "Fail-Safe" Mode (also known as "Limp-Home" Mode). If this occurs the vehicle's power and speed will be reduced, which could inconvenience you and require immediate repair.

## V. CAMPAIGN D0E COMPLETION VERIFICATION

### 1. USE TIS TO CHECK COMPLETION STATUS OF CAMPAIGN D0E

The screenshot shows the Toyota TIS interface. At the top, there are navigation tabs: Home, TIS, and TOYOTA. Below this is a menu with options: Library, Diagnostics, Tech Assistance, and Vehicle Inquiry. The 'Vehicle Inquiry' tab is selected.

**Vehicle Identification Number Search**

Enter a 17 Digit VIN below to search for applicable information:  
 VIN:

**Vehicle Information**

Division: TOYOTA	Model: Sequoia	Grade: SR5	Model Year:
Drive Type: 4WD	Body Type: 5Dr. Wagon	Engine Family: Large V8 - 3UR-FBE	Transmissi
Date of First Use: 08/20/2012	Production Date: 06/20/2012	Plant Code: S - PRINCETON PLANT - TMMI	
VIN: STD-BW5G1-000000000	<a href="#">Electronic Parts Catalog</a>	<a href="#">Flat Rate Manual</a>	<a href="#">Standard Equipment</a>
Exterior Color: 0040, SUPER WHITE	Interior Color: **13, GRAPHITE	Interior Trim Color: **, *	Interior Fa

**Accessories:**  
 EC: Auto-Dimming Rearview Mirror ET: Display Navigation with Entune

At the bottom, there are tabs for Campaign, Service History, ToyotaCare, Warranty, DTC History, and Dis. The 'Service History' tab is selected.

**Service Campaign**

<b>Campaign Description:</b>	Limited Service Campaign D0E - Certain 2012 - 2013 Model Year Tundra and Sequoia - ECM Software Update
<b>Completion Status:</b>	<b>Completed</b>
<b>Date Served:</b>	06/06/13
<b>Dealer Name:</b>	TOYOTA CENTER
<b>Dealer Code:</b>	33333

[Show Documents]

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a. Input VIN and click 'Lookup'

b. Confirm the completion status of D0E.  
**NOTE:** If campaign D0E is not applicable to the VIN, D0E will not be shown here.

CAMPAIGN D0E STATUS	ACTION REQUIRED
D0E shows as <i>completed</i> on TIS.	Proceed to <b>SECTION VI. ECM CALIBRATION ID VERIFICATION</b>
D0E is not applicable to VIN.	Proceed to <b>SECTION VI. ECM CALIBRATION ID VERIFICATION</b>
D0E shows as <i>incomplete</i> on TIS.	Perform D0E. Performing D0E will also complete FOA. <b>NOTE:</b> LSC D0E expires on May 31, 2016, after that date it should no longer be performed.

## VI. ECM CALIBRATION ID VERIFICATION

### 1. CONFIRM THE ECM CALIBRATION ID

- a) Perform a health check and confirm no DTCs are present.
- b) Confirm the current calibration ID in the ECM.
- c) Referencing the table below, verify if the ECM has the Updated Calibration

MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID		
Tundra	2012-2013	3UR-FE	2WD	-	-	30CJ5000	<a href="#">30CJ5400</a>		
						30CJ5100			
						30CJ5200			
			30CJ5300						
			30CJ5001						
			30CJ5101						
		4WD	30CJ5201	<a href="#">30CJ5401</a>					
			30CJ5301						
			30CJ6000						
		2WD	Towing	-	30CJ6100	<a href="#">30CJ6400</a>			
					30CJ6200				
					30CJ6300				
					30CJ6001				
					30CJ6101				
					30CJ6201				
		4WD	Towing	-	30CJ6301	<a href="#">30CJ6401</a>			
	30CJ9000								
	30CJ9100								
	30CJ9200								
	30CJ9300								
	30CJ9400								
	3UR-FBE	4WD	-	-	30CK0000	<a href="#">30CK0500</a>			
					30CK0100				
					30CK0200				
					30CK0300				
		Towing	-	-	30CK0400				
					30CL0000				
					30CL0100				
50C80000									
2014	3UR-FE	2WD	-	-	Main	30CL0001	<a href="#">30CL0200 / 50C80100</a>		
					Sub	50C80001			
					30CL0001				
		4WD			Main	30CL0101		<a href="#">30CL0201 / 50C80101</a>	
					Sub	50C80001			
					30CL1000				
	2WD	Towing	-	Main	30CL1100	<a href="#">30CL1200 / 50C81100</a>			
				Sub	50C81000				
				30CL1001					
	4WD	Towing	-	Main	30CL1101	<a href="#">30CL1201 / 50C81101</a>			
				Sub	50C81001				
				30CL3000					
3UR-FBE	4WD	-	-	-	Main	30CL3100	<a href="#">30CL3200 / 50C83100</a>		
					Sub	50C83000			
					30CL4000				
		Towing			-	-	Main	30CL4100	<a href="#">30CL4200 / 50C84100</a>
							Sub	50C84000	
							30CL4000		



MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID						
Sequoia	2012-2013	3UR-FE	2WD	-	-	30CK2000	<u>30CK2400</u>						
						30CK2100							
						30CK2200							
						30CK2300							
			4WD			30CK2001		<u>30CK2401</u>					
						30CK2101							
						30CK2201							
						30CK2301							
		3UR-FE	2WD	Towing	-	30CK1000	<u>30CK1400</u>						
						30CK1100							
						30CK1200							
						30CK1300							
			4WD			30CK1001	<u>30CK1401</u>						
						30CK1101							
						30CK1201							
						30CK1301							
	2014	3UR-FBE	4WD	-	-	30CK5000	<u>30CK5500</u>						
						30CK5100							
						30CK5200							
						30CK5300							
						3UR-FBE	4WD	Towing	-	30CK5400	<u>30CK6500</u>		
										30CK6000			
										30CK6100			
										30CK6200			
		30CK6300											
		30CK6400											
		3UR-FE	2WD	-	-					Main		30CJ4000	<u>30CJ4200 / 50C88100</u>
										Sub		30CJ4100	
						Main	30CJ4001	<u>30CJ4201 / 50C88101</u>					
							30CJ4101						
			4WD			Sub	50C88001						
						Main	30CG3000	<u>30CG3200 / 50C87100</u>					
30CG3100													
Sub	50C87000												
	Main	30CG3001	<u>30CG3201 / 50C87101</u>										
30CG3101													
Sub	50V87001												
	3UR-FBE	4WD	Towing & Non-Towing	-	Main	30CM0000	<u>30CM0200 / 50CA2100</u>						
Sub					30CM0100								
50CA2000													



- If the ECM has already been calibrated with the new calibration the campaign is complete.

## ◀ CRITICAL MESSAGE ▶

It is *critical* that [T-SB-0012-13](#) in addition to the Technical Instructions for this LSC are followed. This TSB outlines all steps necessary to prevent reprogramming failure. Toyota will not provide reimbursement coverage for reprogramming failures if this TSB is not followed. If you have a reprogramming failure that requires ECU replacement and the Technical Instructions *and* TSB were followed correctly, please create a case with the Technical Assistance Hotline documenting all information related to the failure. If sufficient reporting is received related to re-flash failure, there will be consideration for reimbursement.

**NOTE:** There will be a limited inventory of ECUs available in the rare case that a reprogramming failure occurs.

## VII. ECM REFLASH PROCEDURE



- For general reprogramming procedures, refer to [T-SB-0012-13](#).
- Confirm the latest version of Techstream software is being used.
- If the Techstream does not have sufficient battery power the reflash will fail.
- Confirm the DLC3 cable is in good condition before attempting reflash.
- If vehicle exhibits any trouble codes or drivability symptoms, diagnose and repair using TIS before attempting to reprogram the ECM.

### 1. CONNECT THE GR8

- a) Set the GR8 to Power Supply Mode to help maintain 13.5 volts during ECM reprogramming.



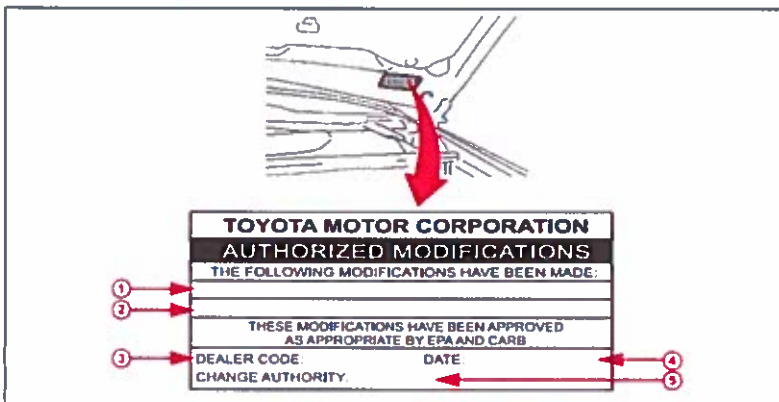
- A battery charger set to power supply mode **MUST** be used during reprogramming.
- ECM damage may occur if the correct battery charger setting is not used.

### 2. REFLASH THE ECM

- a) Click yes on the health check results screen, or follow the links on the table above to begin the reflash process.

### 3. ATTACH THE AUTHORIZED VEHICLE MODIFICATION LABEL

- a) Fill out the label.
- b) Affix the label to the under-side of the hood.



1	Replacement ECM P/N
2	New Calibration ID
3	Dealer Code
4	Date Completed
5	Campaign Code (FOA)

### 4. CHECK FOR DTCs

## ◀ VERIFY REPAIR QUALITY ▶

- Confirm the GR8 is set up properly prior to beginning the reprogramming
- Confirm the reflash completes successfully
- Confirm the Authorized Vehicle Modification Label is filled out and affixed to the vehicle
- Confirm there are no DTCs in the ECM

If you have any questions regarding this update, please contact your regional representative

## VIII. APPENDIX

### A. CAMPAIGN DESIGNATION DECODER

