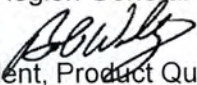


**TOYOTA****PRODUCT SUPPORT DIVISION**

Volume: XIX  
 Number: TC15-001  
 Date: 1/8/2015  
 Action  
 Retain  
 Information

**INTEROFFICE MEMORANDUM**

To: All Toyota Region General Managers/Vice Presidents  
 From: Bob Waltz,   
 Vice President, Product Quality and Service Support  
 Subject: 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.

**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.

**Limited Service Campaign (LSC) Remedy**

The ECM calibration has been updated to reduce the possibility of this condition occurring. Authorized Toyota dealers are requested to verify the vehicle's ECM calibration and, if necessary, update the calibration software at **NO CHARGE** to the vehicle owner.

This LSC will be available until **February 28, 2016**, and will only be available at an authorized Toyota Dealer.

**1. Dealer Letter Mailing Date**

The attached Dealer Letter will be sent to all Toyota dealers in Early January 2015.

**2. Owner Notification Mailing Date**

The owner notification will commence in Mid-January 2015, approximately one week after the Dealer Letter.

Please note that only owners of the covered vehicles will be notified. If a dealer is contacted by an owner who has not yet received a notification, please instruct them to **verify eligibility by confirming through TIS prior to performing repairs**. Dealers should perform the repair as outlined in the Technical Instructions found on TIS.

**3. New and Used Vehicles in Dealership Inventory (In-Stock Vehicles)**

To ensure customer satisfaction Toyota requests that dealers conduct this LSC remedy on any new or used vehicles currently in dealer inventory that are covered by this LSC prior to customer delivery.

**4. Number and Identification of Covered Vehicles**

There are approximately 39,000 Sequoia and 247,000 Tundra vehicles equipped with a 5.7 liter gasoline or 5.7 Liter-Flex Fuel engine covered by this LSC.

**5. Region/District Summary Reports**

We have enclosed the following LSC F0A Summary Reports in the Region/Private Distributor (PD) Service Manager/Customer Service Operations Manager/Director of Service package:

- Region/PD Summary Report that provides an overview of the entire Region/PD for this LSC.
- A District Summary Report that indicates the number of covered vehicles per dealership in each district for this LSC.

The attached Dealer Notification Letter contains additional details.

Please review this notification with your staff to assure that all relevant personnel have been briefed regarding this subject.

Thank you for your cooperation.

Enclosures

- cc: Region/Private Distributor Assistant General Managers  
Region/Private Distributor Customer Service Operations Managers  
Region/Private Distributor Service Managers/Directors/VPs  
Region/Private Distributor Parts Managers/Directors/VPs  
Region/Private Distributor Customer Services Field Managers  
Region/Private Distributor Technical Services and Training Managers  
Region/Private Distributor District Service and/or Parts Managers  
Region/Private Distributor Customer Relations Managers  
Region/Private Distributor PDC Managers  
Region/Private Distributor Field Technical Specialists  
Region/Private Distributor Service Training Specialists  
Region/Private Distributor Vehicle Operations Managers  
Field Product Engineers

To: All Toyota Dealer Principals, Service Managers, and Parts Managers

Subject: 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.

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This LSC will be available until **February 28, 2016**, and will only be available at an authorized Toyota Dealer.

#### **1. Owner Notification Mailing Date**

The owner notification will commence in Mid-January 2015, approximately 1 week after the dealer notification.

*Toyota makes significant effort to obtain current customer name and address information from each state through industry resources when mailing owner letters. In the event your dealership receives a notice for a vehicle that was sold prior to the LSC announcement, it is the dealership's responsibility to forward the owner letter to the customer who purchased the vehicle.*

Please note that only owners of the covered vehicles will be notified. If you are contacted by an owner who has not yet received a notification, please **verify eligibility by confirming through TIS prior to performing repairs**. Dealers should perform the repair as outlined in the Technical Instructions found on TIS.

#### **2. New and Used Vehicles in Dealership Inventory (In-Stock Vehicles)**

To ensure customer satisfaction Toyota requests that dealers conduct the LSC remedy on any new or used vehicles currently in dealer inventory that are covered by this LSC prior to customer delivery.

#### **3. Number and Identification of Covered Vehicles**

There are approximately 39,000 Sequoia and 247,000 Tundra vehicles equipped with a 5.7 liter gasoline or 5.7 Liter-Flex Fuel engine covered by this LSC.

#### **4. Dealer Summary Reports**

Summary Reports, containing the number of covered vehicles in your dealership's primary marketing area, have been enclosed in the dealer package. (Please verify eligibility by confirming through TIS prior to performing repairs.)

5. **Parts Ordering**

Replacement parts are not required for this LSC.

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.*

6. **Remedy Procedures**

Please refer to TIS for Technical Instructions. The Technical Instructions contain information on verifying the vehicle's ECM calibration and, if necessary, update the calibration software.

Conduct all applicable, non-completed Safety Recall and Service Campaigns on the vehicle during the time of appointment.

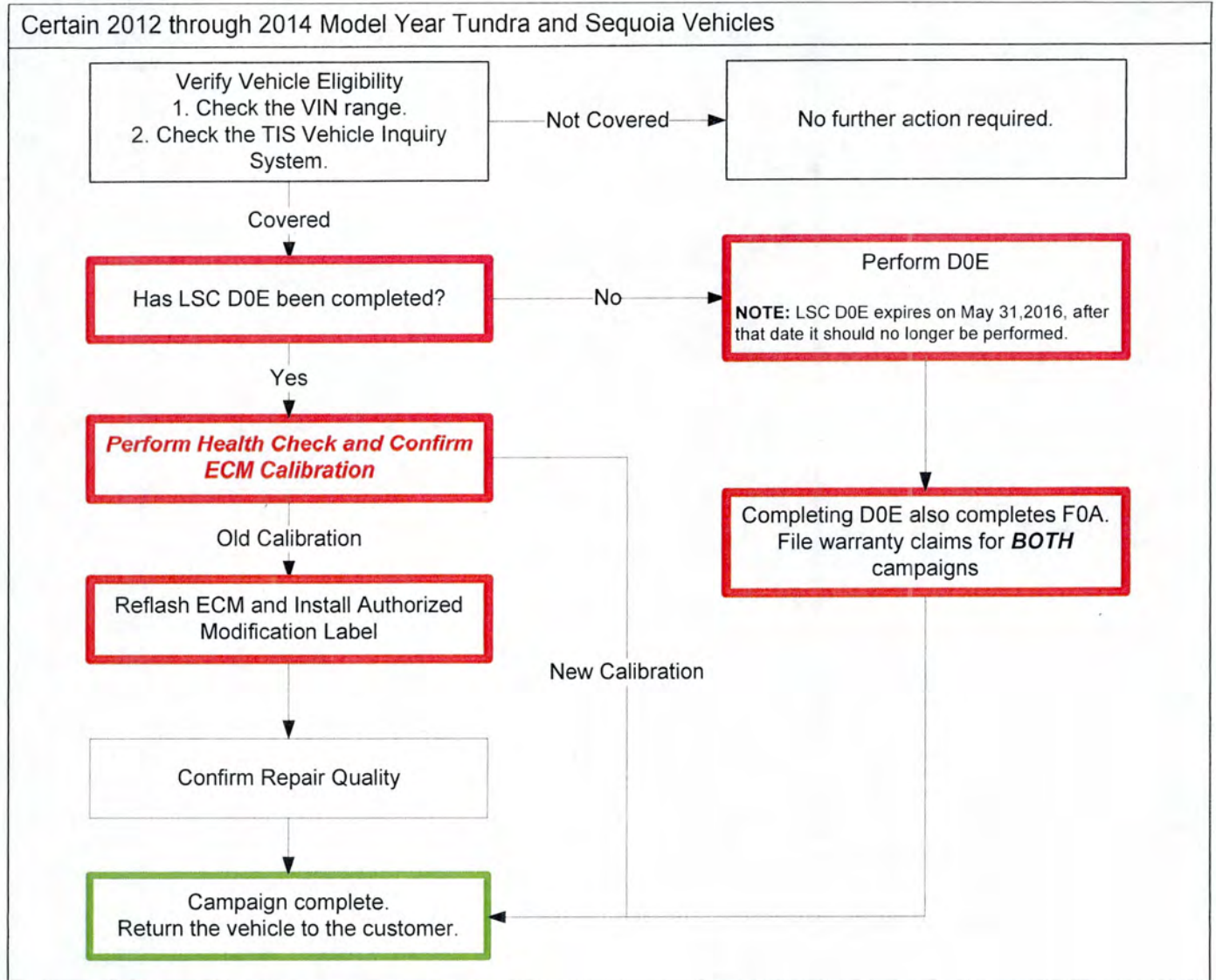
7. **Technician Training Requirements**

The repair quality of covered vehicles is extremely important to Toyota. 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 certification levels:

- **Certified any specialty**
- **Expert any specialty**
- **Master**
- **Master Diagnostic Technician**

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this Limited Service Campaign repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

8. **Warranty Reimbursement Procedure**



LSC	Model	Op. Code	Description	Flat Rate
F0A	Tundra Sequoia	AGGF6A	Confirm ECM Calibration is Already Updated	0.3 hr/vehicle
		AGGF6B	Update ECM Software and Install Update Label	0.8 hr/vehicle

- The above operation codes include 0.1 hour for administrative cost per unit for the dealership.

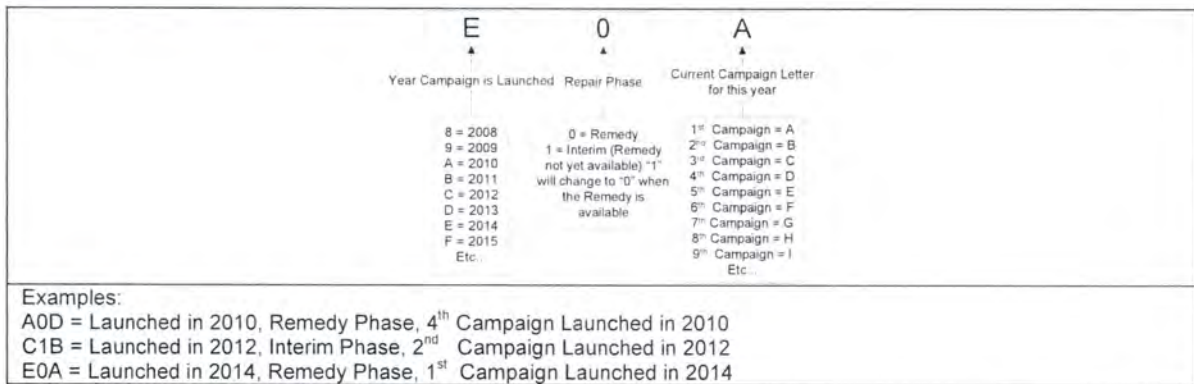
**9. Vehicles Emission Recall Proof of Correction Form (California only)**

As this LSC includes emission related parts, California dealers are requested to fill out the Vehicle Emissions Recall – Proof of Correction form after repairs have been completed. The vehicle owner may require this form for vehicle registration renewal. ***It is important to note that the forms are an official state document and blank forms must be secured to prevent misuse.*** Booklets can be ordered from the MDC (material number 00410-92007).

Please complete the form and provide it to the owner. The first non-completed VIN's will be submitted to the California state DMV February 28, 2015. If the vehicle owner's warranty claim will not be processed and paid prior to this date, please be sure to complete a form and provide it to a California owner.



**10. Campaign Designation Decoder**



**11. Repair Quality Confirmation**

The repair quality of covered vehicles is extremely important to Toyota. To help ensure that all vehicles have the repair performed correctly, please designate at least one associate (someone other than the individual who performed the repair) to verify the repair quality of every vehicle prior to customer delivery.

**12. Media Contacts**

It is imperative that all media contacts (local and national) receive a consistent message. In this regard, all media contacts must be directed to Cindy Knight (310) 468-2170 in Toyota Corporate Communications. (Please do not provide this number to customers. Please provide this contact to only media associates.)

**13. Customer Contacts**

Customers who receive the owner letter may contact your dealership with questions regarding the letter and/or LSC remedy. Please welcome them to your dealership and answer any questions that they may have. A Q&A is provided to assure a consistent message is communicated.

Customers with additional questions or concerns are asked to please contact the Toyota Customer Experience Center (1-888-270-9371).

***Please review this entire package with your Service and Parts staff to familiarize them with the proper step-by-step procedures required to implement this Limited Service Campaign.***

Thank you for your cooperation.  
 TOYOTA MOTOR SALES, U.S.A., INC.



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.



Lonnie Peterson / TMS Toyota Customer Services  
Product Quality and Service Support, Quality Compliance  
January 9, 2015  
Approved By: Bob Waltz

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**

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- **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.)



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

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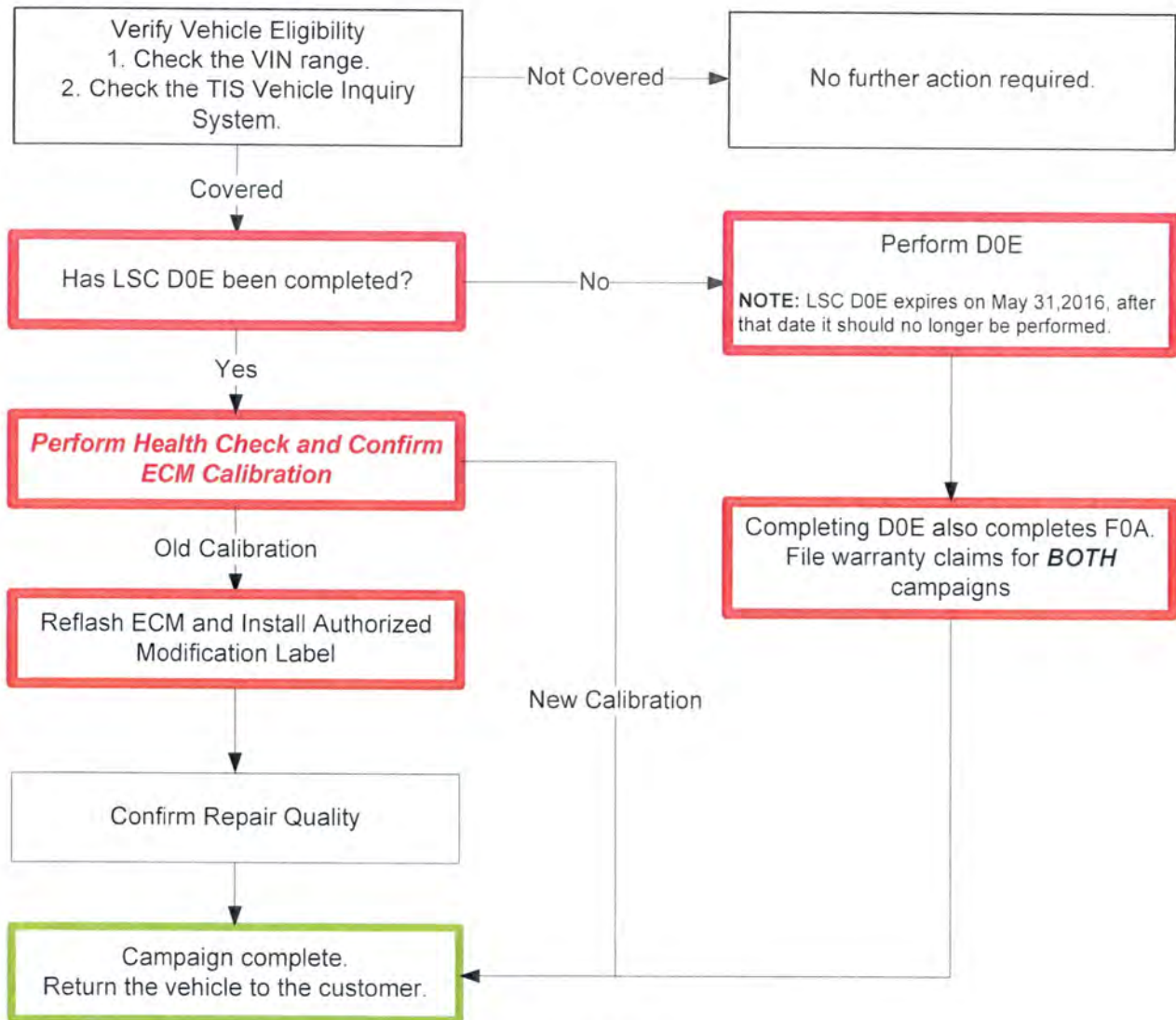
**TECHNICAL INSTRUCTIONS  
FOR  
LIMITED SERVICE CAMPAIGN F0A  
ECM SOFTWARE UPDATE  
CERTAIN 2012-2014 TUNDRA  
CERTAIN 2012-2014 SEQUOIA**

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

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. A red box labeled 'a. Input VIN and click 'Lookup'' points to the 'Vehicle Identification Number Search' section. This section contains a text input field with the VIN '5TD BW5G1 000000000' and buttons for 'Clear' and 'Lookup'. Below the search section is the 'Vehicle Information' section, which displays various details for the vehicle, including Division (TOYOTA), Model (Sequoia), Grade (SR5), Model Year, Drive Type (4WD), Body Type (5Dr. Wagon), Engine Family (Large V8 - 3UR-FBE), Transmission, Date of First Use (08/20/2012), Production Date (06/20/2012), Plant Code (S - PRINCETON PLANT - TMMI), VIN (5TD-BW5G1-000000000), Exterior Color (0040, SUPER WHITE), Interior Color (\*\*13, GRAPHITE), Interior Trim Color (\*\*, \*), and Accessories (EC: Auto-Dimming Rearview Mirror, ET: Display Navigation with Entune). Below the vehicle information is a 'Service Campaign' section. A red box labeled 'b. Confirm the completion status of D0E.' points to the 'Service Campaign' section. This section shows a table with one entry: 'Limited Service Campaign D0E - Certain 2012 - 2013 Model Year Tundra and Sequoia - ECM Software Update'. The 'Completion Status' for this campaign is 'Completed'. A note below the table states: 'NOTE: If campaign D0E is not applicable to the VIN, D0E will not be shown here.' At the bottom of the page, there is a footer with '© 2014 Toyota Motor Sales, Inc.' and a 'Feedback' link.

CAMPAIGN D0E STATUS	ACTION REQUIRED
D0E shows as <b>completed</b> 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 <b>incomplete</b> on TIS.	Perform D0E. Performing D0E will also complete F0A. <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

- Perform a health check and confirm no DTCs are present.
- Confirm the current calibration ID in the ECM.
- 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				
			4WD			30CJ5001		<a href="#">30CJ5401</a>		
						30CJ5101				
						30CJ5201				
						30CJ5301				
		3UR-FBE	2WD	Towing	-	30CJ6000	<a href="#">30CJ6400</a>			
						30CJ6100				
						30CJ6200				
						30CJ6300				
			4WD			30CJ6001		<a href="#">30CJ6401</a>		
						30CJ6101				
						30CJ6201				
						30CJ6301				
	2014	3UR-FE	2WD	-	-	Main	30CL0000	<a href="#">30CL0200 / 50C80100</a>		
						Sub	30CL0100			
						50C80000				
			4WD			Main	30CL0001		<a href="#">30CL0201 / 50C80101</a>	
						Sub	30CL0101			
						50C80001				
		3UR-FBE	2WD	Towing	-	-	Main	30CL1000	<a href="#">30CL1200 / 50C81100</a>	
							Sub	30CL1100		
							50C81000			
			4WD				Main	30CL1001		<a href="#">30CL1201 / 50C81101</a>
							Sub	30CL1101		
							50C81001			
3UR-FBE	4WD	-	-	-	Main	30CL3000	<a href="#">30CL3200 / 50C83100</a>			
					Sub	30CL3100				
					50C83000					
	Towing				Main	30CL4000		<a href="#">30CL4200 / 50C84100</a>		
					Sub	30CL4100				
					50C84000					

MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID	
Sequoia	2012-2013	3UR-FE	2WD	-	-	30CK2000	<a href="#">30CK2400</a>	
						30CK2100		
						30CK2200		
						30CK2300		
			4WD			30CK2001	<a href="#">30CK2401</a>	
						30CK2101		
						30CK2201		
						30CK2301		
		2WD	Towing	-	30CK1000	<a href="#">30CK1400</a>		
					30CK1100			
					30CK1200			
					30CK1300			
		4WD			30CK1001	<a href="#">30CK1401</a>		
					30CK1101			
					30CK1201			
					30CK1301			
	3UR-FBE	4WD	-	-	30CK5000	<a href="#">30CK5500</a>		
					30CK5100			
					30CK5200			
					30CK5300			
				Towing	-	30CK5400	<a href="#">30CK6500</a>	
						30CK6000		
						30CK6100		
						30CK6200		
	2014	3UR-FE	2WD	-	Main	30CJ4000	<a href="#">30CJ4200 / 50C88100</a>	
						30CJ4100		
						Sub		50C88000
						Sub		50C88001
			4WD		Main	30CJ4001	<a href="#">30CJ4201 / 50C88101</a>	
						30CJ4101		
Sub						50C88001		
Sub						50C88001		
2WD		Towing	Main	30CG3000	<a href="#">30CG3200 / 50C87100</a>			
				30CG3100				
				Sub		50C87000		
				Sub		50C87000		
4WD				Main	30CG3001	<a href="#">30CG3201 / 50C87101</a>		
					30CG3101			
	Sub				50V87001			
	Sub				50V87001			
3UR-FBE	4WD	Towing & Non-Towing	Main	30CM0000	<a href="#">30CM0200 / 50CA2100</a>			
				30CM0100				
				Sub		50CA2000		
				Sub		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.

**TOYOTA MOTOR CORPORATION**  
**AUTHORIZED MODIFICATIONS**  
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:

1	
2	
THESE MODIFICATIONS HAVE BEEN APPROVED AS APPROPRIATE BY EPA AND CARB	
3	DEALER CODE
	DATE
	CHANGE AUTHORITY

4

5

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

### 4. CHECK FOR DTCs

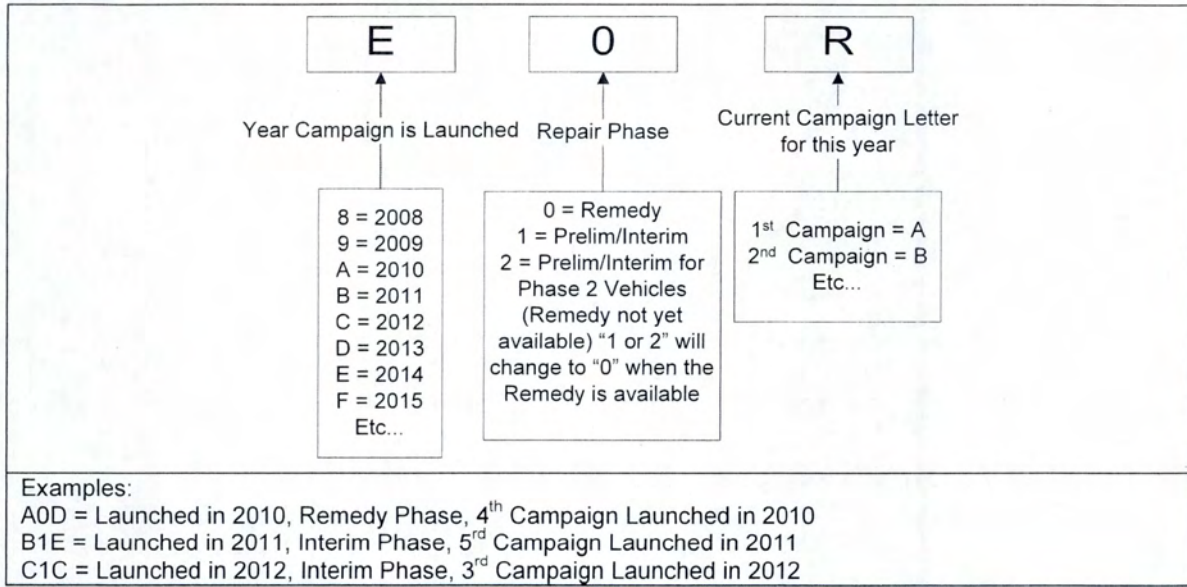
## ◀ VERIFY REPAIR QUALITY ▶

- 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



**THIS LSC EXPIRES ON MAY 31, 2016**

**TECHNICAL INSTRUCTIONS  
FOR  
LIMITED SERVICE CAMPAIGN D0E  
ECM SOFTWARE UPDATE  
CERTAIN  
2012-2013 MODEL TUNDRA AND SEQUOIA (3UR)**

**UPDATED JANUARY 7, 2015**

**TECHNICAL INSTRUCTIONS UPDATED NOTICE:**

**Updated 1/7/15**

- Updated calibration table

**Updated 5/15/13**

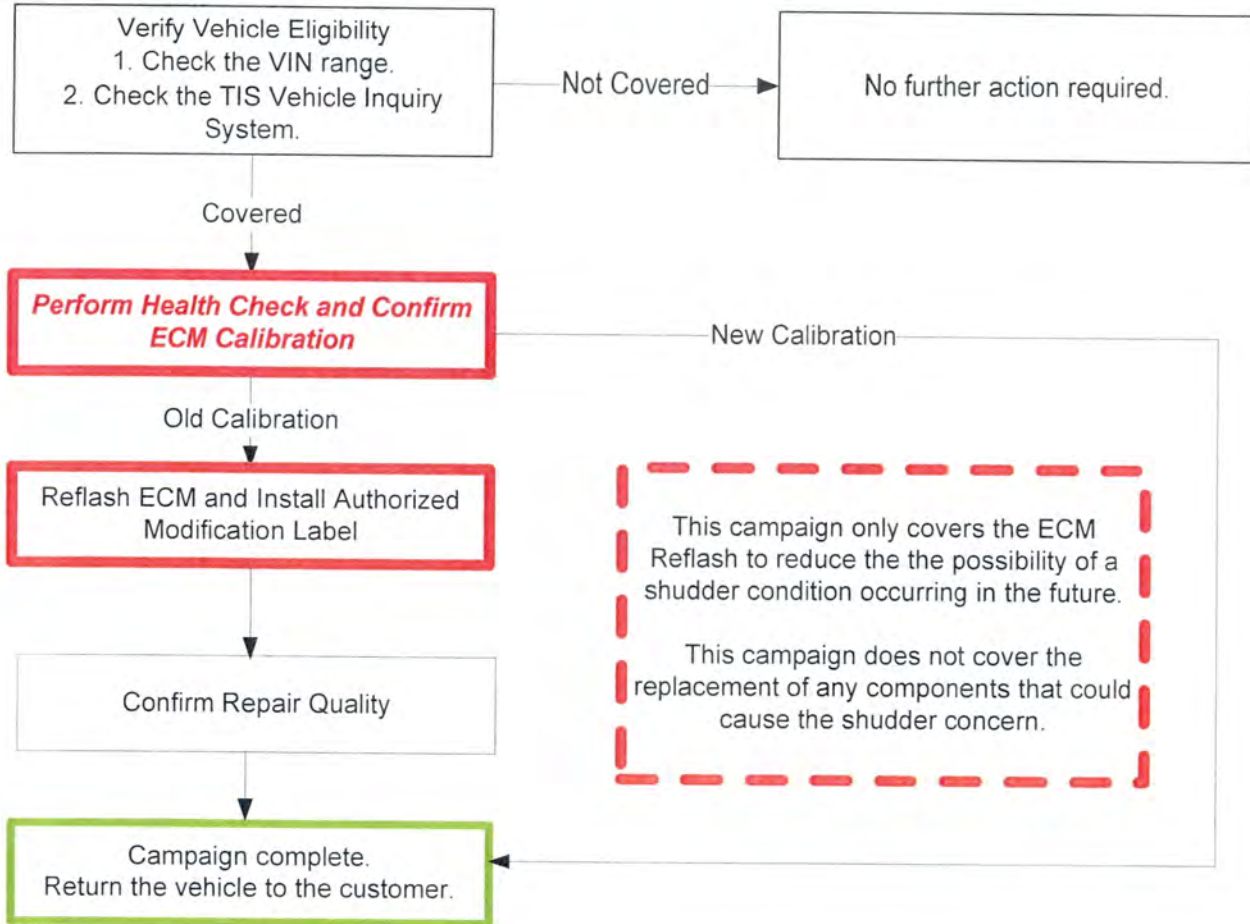
- Update to the VIN Break Down ([SECTION II, page 3](#))

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

# THIS LSC EXPIRES ON MAY 31, 2016

## OPERATION FLOW CHART



# THIS LSC EXPIRES ON MAY 31, 2016

## I. IDENTIFICATION OF COVERED 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.

## II. 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 the Dealer Daily Website

**Only If DTC P0418 and/or P2445 are present:**

Part Number	Part Description	Quantity
17610-0S030*	Air Pump Assembly*	1

### B. TOOLS, SUPPLIES & EQUIPMENT

- Standard Hand Tools
- Techstream 2.0 / TIS Techstream / Techstream Lite (Software Version 8.00.034 or Later)
- GR8 Diagnostic Station

## III. BACKGROUND

In certain 2012 – 2013 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) calibration may cause an emissions control component called an Air Injection Pump to fail under certain driving conditions. If this occurs, the vehicle could enter a "Fail-Safe" Mode (also known as "Limp-Home" Mode). This mode reduces the vehicle's power and speed, which could inconvenience you and require immediate repair.

# THIS LSC EXPIRES ON MAY 31, 2016

## IV. ECM CALIBRATION ID VERIFICATION AND DTC CHECK

### A. CONFIRM ECM CALIBRATION ID

- 1) Perform a health check
- 2) Confirm the calibration ID in the ECM.

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				
		30CJ5201	<a href="#">30CJ5401</a>				
		30CJ5301					
		30CJ6000					
		30CJ6100	<a href="#">30CJ6400</a>				
		30CJ6200					
		30CJ6300					
		30CJ6001					
		30CJ6101		<a href="#">30CJ6401</a>			
		30CJ6201					
		30CJ6301					
		3UR-FBE	4WD	-	-	30CJ9000	<a href="#">30CJ9500</a>
						30CJ9100	
						30CJ9200	
			30CJ9300				
30CJ9400							
30CK0000	<a href="#">30CK0500</a>						
30CK0100							
30CK0200							
30CK0300							
30CK0400							
30CK2000		<a href="#">30CK2400</a>					
30CK2100							
30CK2200							
30CK2300							
30CK2001	<a href="#">30CK2401</a>						
30CK2101							
30CK2201							
3UR-FE	2WD	-	-	30CK2301	<a href="#">30CK1400</a>		
				30CK1000			
				30CK1100			
	30CK1200						
	30CK1300						
	30CK1001			<a href="#">30CK1401</a>			
30CK1101							
30CK1201							
3UR-FBE	4WD	-	-	30CK1301	<a href="#">30CK5500</a>		
				30CK5000			
				30CK5100			
	30CK5200						
	30CK5300						
	30CK5400						
3UR-FBE	4WD	-	-	30CK6000	<a href="#">30CK6500</a>		
				30CK6100			
				30CK6200			
	30CK6300						
	30CK6400						

# THIS LSC EXPIRES ON MAY 31, 2016



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

## B. CHECK FOR STORED DTC(S)

- 1) Confirm if one or both of the following DTC are stored in the system.
  - P0418 – Secondary Air Injection System Control “A” Circuit
  - P2445 – Secondary Air Injection Pump Stuck OFF Bank 1

Condition	Action Required
ECM Contains Old Cal ID and Neither DTC is Present	Proceed with ECM Reflash <b>Only!</b>
ECM contains Old Cal ID and P0418 and/or P2445 is present	Proceed with ECM Reflash and Bank 1 Air Pump Assembly Replacement



- If the ECM has the updated calibration and P0418 and/or P2445 it is not covered under this campaign.

## V. ECM REFLASH PROCEDURE

### A. 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.

### B. 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.

#### NOTE:

- For general reprogramming procedures, refer to [T-SB-0012-13](#).
- Confirm the latest version of Techstream software is being used.

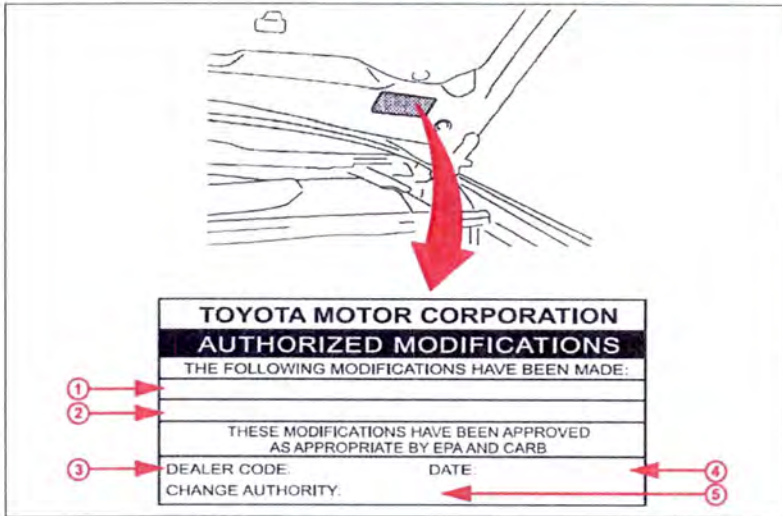


- If the Techstream does not have sufficient battery power the reflash will fail.
- Confirm the DLC3 cable is in good condition before attempting reflash.

### C. ATTACH THE AUTHORIZED VEHICLE MODIFICATION LABEL

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

# THIS LSC EXPIRES ON MAY 31, 2016



1	ECM P/N
2	New Calibration ID
3	Dealer Code
4	Date Completed
5	Campaign Code (D0E)

## 1. CHECK FOR DTCs

## VI. BANK 1 PUMP ASSEMBLY REPLACEMENT (if required)

Refer to TIS for instruction on Bank 1 Pump Assembly removal/installation

- 2012 Tundra (3UR-FE) Air Pump [Removal / Installation](#)
- 2012 Tundra (3UR-FBE) Air Pump [Removal / Installation](#)
- 2013 Tundra (3UR-FE) Air Pump [Removal / Installation](#)
- 2013 Tundra (3UR-FBE) Air Pump [Removal / Installation](#)
- 2012 Sequoia (3UR-FE) Air Pump [Removal / Installation](#)
- 2012 Sequoia (3UR-FBE) Air Pump [Removal / Installation](#)
- 2013 Sequoia (3UR-FE) Air Pump [Removal / Installation](#)
- 2013 Sequoia (3UR-FBE) Air Pump [Removal / Installation](#)

### ◀ VERIFY REPAIR QUALITY ▶

- Confirm the ECM Calibration has been updated successfully
- Confirm *that an* Authorized Modification Label has been installed
- If you have any questions regarding this recall, please contact your regional representative

## VII. APPENDIX

### A. CAMPAIGN DESIGNATION DECODER

