


# TOYOTA

## PRODUCT SUPPORT DIVISION

### INTEROFFICE MEMORANDUM

Volume: XIX  
Number: TC13-011  
Date: 04/29/2013  
 Action  
 Retain  
 Information

To: All Toyota Region General Managers/Vice Presidents  
From: Bob Waltz,   
Vice President, Product Quality and Service Support  
Subject: Limited Service Campaign (LSC) D0E  
Certain 2012 – 2013 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 – 2013 MY Tundra and Sequoia vehicles. This LSC will cover approximately 19,000 Sequoia and 103,000 Tundra vehicles equipped with a 5.7 liter gasoline or 5.7 Liter-Flex Fuel engines.

#### Background

In the vehicles covered by this LSC, 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 an owner 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 dealer are requested to verify the vehicle's ECM calibration and, if necessary, update the calibration software at **NO CHARGE** to the vehicle owner. If the Air Pump Assembly has failed due to this condition, it will be replaced at **NO CHARGE**.

This LSC will be available until **May 31, 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 late April 2013.

#### 2. Owner Notification Mailing Date

The owner notification will commence in early May 2013, 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 19,000 Sequoia and 103,000 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 D0E 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  
All NAPC General Managers  
All TMS Sales Administration Managers  
All TMS Product Quality & Service Support Managers  
All Field Product Engineers

- |              |              |             |                |            |
|--------------|--------------|-------------|----------------|------------|
| M. Bevan     | R. Dufresne  | C. Knight   | R. Perez       | P. Turner  |
| G. Borst     | B. Fay       | V. Katayama | D. Pettitt     | K. Ura     |
| J. Bracken   | N. Fein      | M. King     | R. Pflughaupt  | P. Uribe   |
| R. Broughman | G. Fogg      | J. Lang     | M. Reding      | A. Vaish   |
| G. Bryan     | K. Fukushima | S. Lending  | C. Reynolds    | B. Waltz   |
| W. Burns     | J. Grosso    | J. Lentz    | R. Sakai       | M. Warrick |
| B. Carter    | J. Hanson    | R. Lofaso   | B. Sciumbato   | D. Zellers |
| G. Christoff | B. Hare      | D. Marsh    | H. Siddiqi     |            |
| A. Coetzee   | S. Heyer     | E. Matsuda  | G. Smith       |            |
| J. Colon     | Z. Hicks     | F. Matsuoka | R. Specht      |            |
| D. Colvin    | K. Higgins   | M. Michels  | J. Stempkowski |            |
| B. Daly      | E. Hirata    | A. Mito     | N. Swartz      |            |
| F. Davidson  | H. Hirata    | T. Morrison | M. Templin     |            |
| D. Depew     | C. Hostetter | J. Moses    | J. Tetherow    |            |
| T. Doi       | Y. Inaba     | C. Neff     | M. Tojo        |            |

# TOYOTA

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Toyota Motor Sales, U.S.A., Inc.  
19001 South Western Avenue  
Torrance, CA 90501  
(310) 468-4000

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

Subject: Limited Service Campaign (LSC) D0E  
Certain 2012 – 2013 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 – 2013 MY Tundra and Sequoia vehicles. This LSC will cover approximately 19,000 Sequoia and 103,000 Tundra vehicles equipped with a 5.7 liter gasoline or 5.7 Liter-Flex Fuel engines.

## **Background**

In the vehicles covered by this LSC, the Engine Control Module (ECM) calibration may cause an emissions control component called an Air Injection Pump to fail in certain environmental 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 an owner 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 dealer are requested to verify the vehicle's ECM calibration and, if necessary, update the calibration software at **NO CHARGE** to the vehicle owner. If an Air Pump Assembly has failed, it will be replaced at **NO CHARGE**.

This LSC will be available until **May 31, 2016**, and will only be available at an authorized Toyota Dealer.

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

The owner notification will commence in early May 2013, approximately 1 week after the dealer notification.

*Toyota tries hard 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 122,000 (2012 – 2013 MY) Tundra and Sequoia vehicles covered by this LSC.

Certain 2012 – 2013 MY <i>Tundra</i> Vehicles Equipped with a 5.7 Liter Gasoline or 5.7 Liter-Flex Fuel engine. Approx. UIO: 103,000									
WMI	MY	VDS	Start	Finish	WMI	MY	VDS	Start	Finish
5TF	2012	BW5F1	X210466	X270264	5TF	2013	BW5F1	X270736	X295763
		BY5F1	X210406	X270574			BY5F1	X270754	X295793
		CW5F1	X012677	X014385			CW5F1	X014389	X015086
		CY5F1	X012675	X014384			CY5F1	X014388	X015090
		DW5F1	X210404	X270700			DW5F1	X270716	X295906
		DY5F1	X210405	X270691			DY5F1	X270719	X295900
		EY5F1	X115742	X133344			EY5F1	X133346	X140086
		FY5F1	X115748	X133338			FY5F1	X133353	X140067
		HW5F1	X210415	X270709			HW5F1	X270743	X295904
		HY5F1	X210407	X270704			HY5F1	X270048	X295868
		KW5F1	X004862	X005477			KW5F1	X005481	X005963
		KY5F1	X004868	X005483			KY5F1	X005484	X005975
		LY5F1	X119994	X132781			LY5F1	X134012	X140059
		MW5F1	X225354	X269483			MW5F1	X271629	X294039
		MY5F1	X225146	X270593			MY5F1	X270858	X295254
		RY5F1	X115741	X133343			RY5F1	X133345	X140085
		SY5F1	X115763	X133240			SY5F1	X133347	X140032
TY5F1	X007331	X007783	TY5F1	X007784	X007977				
UW5F1	X209603	X270708	UW5F1	X270712	X295907				
UY5F1	X209605	X270710	UY5F1	X270711	X295909				

Certain 2012 – 2013 MY <i>Sequoia</i> Vehicles Equipped with a 5.7 Liter Gasoline or 5.7 Liter-Flex Fuel engine. Approx. UIO: 19,000									
WMI	MY	VDS	Start	Finish	WMI	MY	VDS	Start	Finish
5TD	2012	BW5G1	S055370	S073131	5TD	2013	BW5G1	S072840	S083563
		BY5G1	S055284	S073126			BY5G1	S073422	S083607
		DW5G1	S055228	S073139			DW5G1	S072934	S083610
		DY5G1	S055231	S073124			DY5G1	S072574	S083594
		JW5G1	S055368	S073119			JW5G1	S072933	S083585
		JY5G1	S055229	S073132			JY5G1	S072842	S083603
		KY5G1	S037464	S043121			KY5G1	S043060	S047134
		YY5G1	S037465	S043120			YY5G1	S043031	S047138
		ZY5G1	S037463	S043119			ZY5G1	S042968	S047136

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 the notification, please **verify coverage by confirming through TIS**. Dealers should perform the procedure as outlined in the Technical Instructions located on TIS. Not all vehicles in the VIN range are covered by this LSC.

A UIO matrix by state is provided to inform your dealership of the number of covered vehicles in your state.

STATE	UIO	STATE	UIO	STATE	UIO	STATE	UIO	STATE	UIO
AK	1,241	HI	45	ME	716	NJ	1,863	SD	633
AL	2,523	IA	960	MI	826	NM	1,373	TN	1,924
AR	1,900	ID	1,095	MN	1,041	NV	1,407	TX	20,475
AZ	3,312	IL	1,902	MO	1,579	NY	3,513	UT	2,086
CA	13,989	IN	1,145	MS	1,591	OH	2,336	VA	3,051
CO	3,437	KS	1,038	MT	1,393	OK	3,345	VT	544
CT	644	KY	1,370	NC	3,259	OR	2,187	WA	2,759
DE	231	LA	3,474	ND	1,024	PA	3,533	WI	1,283
FL	6,809	MA	1,968	NE	584	RI	209	WV	1,463
GA	3,265	MD	1,961	NH	728	SC	2,037	WY	815


**4. Dealer Summary Reports**

Summary Reports, containing the following will be enclosed in the dealer packet:

- A VIN list containing vehicles in Dealer Stock.
- The number of covered vehicles in your dealership's primary marketing area.  
(Please verify eligibility by confirming through Dealer Daily or TIS prior to performing repairs.)

**5. Parts Ordering**

The majority of vehicles will only need the ECM software updated (Reflashed). Please refer to the Technical Instructions for the work procedure related to this LSC.



***Most vehicles covered by this LSC will NOT require replacement of the Bank 1 Air Pump.***

**The following part number should ONLY be used if (1) DTC(s) P0418 and/or P2445 are present in the system and (2) the vehicle does not have the updated software.**

Orders can be placed through the dealership's facing PDC. The kits have been placed on Dealer Ordering Solutions and will be systematically released daily based on dealer ordering criteria.

Campaign	Part Number	Parts Name	Qty Per/Veh
LSC D0E	17610-0S030	Bank 1 Air Pump	Rarely Used

Each dealership will receive specific dealer ordering criteria in an email from their facing PDC Manager based on Repair Order Volume \* PDC Affected UIO. Therefore, it is vital that each dealership work with both Parts and Service to immediately file Safety Recall claims and coordinate appropriate kit orders. A sample of the Parts Allocation Report has been attached below for your reference.

## TOYOTA

### Parts Allocation Report

99999  
SAMPLE TOYOTA of NOWHERE

The below matrix provides information for parts managed by NAPO Dealer Ordering Solution (DOS) and illustrates updates to your current daily allocation quantities. Parts shipments, arrivals and inventory quantities at your local PDC will change daily as parts are received and shipped from NAPO Suppliers. Therefore, your daily allocation quantity is subject to change based on the parts in-stock availability as well as in-transit inventory to your facing PDC. This report is provided as needed when daily allocation changes for DOS parts.

Parts with recent changes will be illustrated from top to bottom with the most recent effective date.

If you have any questions or concerns, please contact your facing PDC Customer Support Leader, John Q Sample at (999) 999-9999.

Part Number	Total Allocation Quantity	Allocation Quantity	Allocation Frequency	Total Allocation Shipped	Total Allocation Remaining	Effective Date

**IMPORTANT PARTS ORDERING UPDATE**

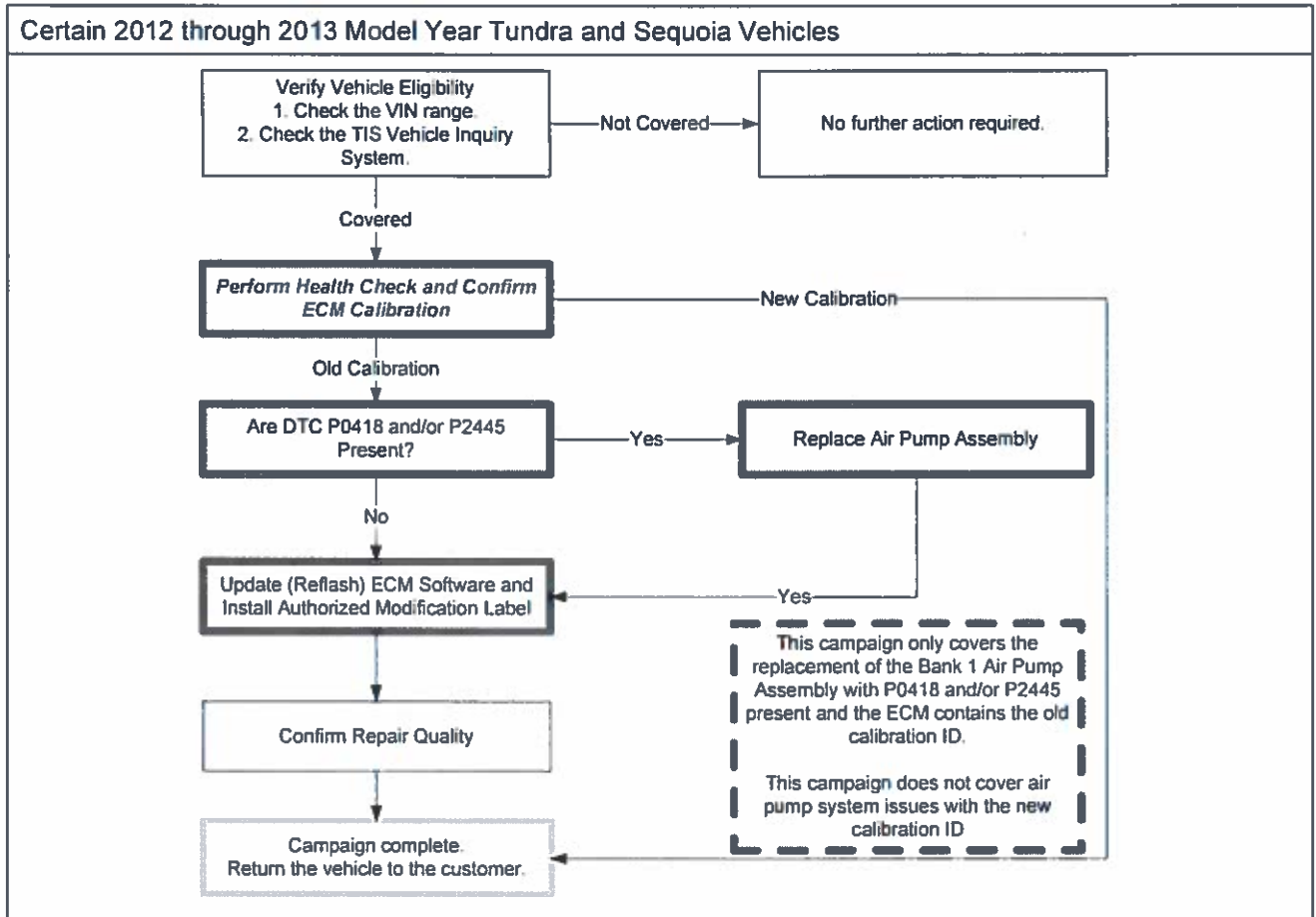
*All Safety Recall, Service Campaign (SSC/LSC) and Customer Support Program (CSP) parts are eligible for the Monthly Parts Return Program. Please refer to PANT Bulletin 2011-087 for campaign parts that are currently returnable under the Monthly Parts Return Program and additional details.*

**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. Warranty Reimbursement Procedure**



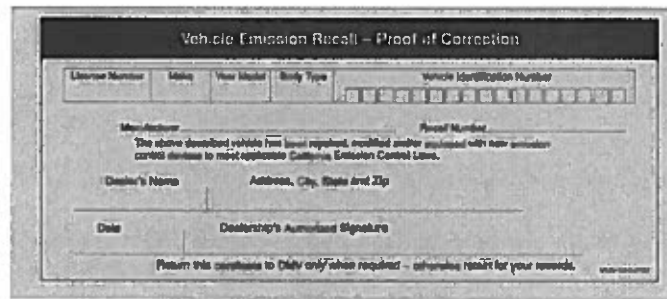
LSC	Model	Op. Code	Description	Flat Rate
D0E	Tundra Sequoia	3615CA	Confirm EMC Calibration is Already Updated	0.3 hr/vehicle
		3615CB	Update ECM Software and Install Update Label	0.5 hr/vehicle
		3615CC	Update ECM Software, Install Label, and Replace Air Pump	2.0 hr/vehicle

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

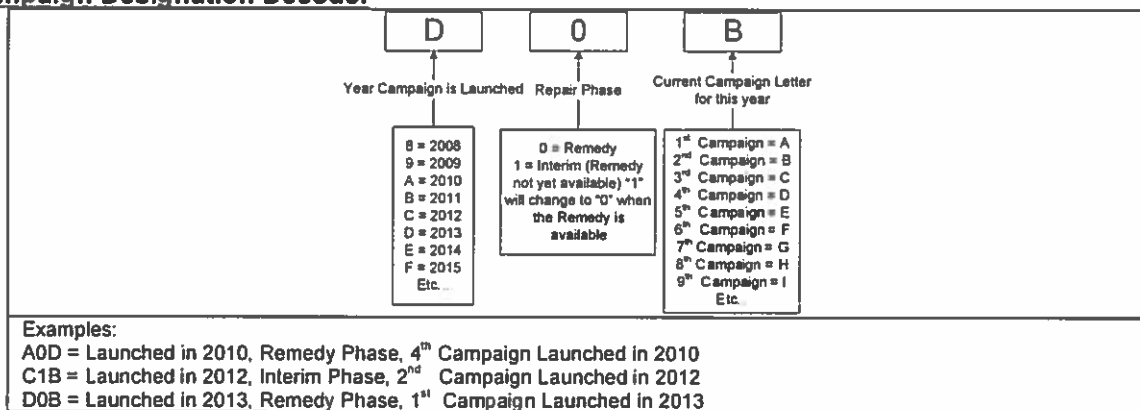
**8. Vehicles Emission Recall Proof of Correction Form (California only)**

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 October 1, 2013. 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.



**9. Campaign Designation Decoder**



**10. 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.

**11. 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.)

**12. 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.





**Certain 2012 - 2013 Model Year Toyota Tundra and Sequoia Vehicles  
ECM Software Update  
LIMITED SERVICE CAMPAIGN**

[VIN]

Dear Toyota Tundra / Sequoia Owner:

At Toyota, we are dedicated to providing vehicles of outstanding quality and value. As part of our continuing efforts to provide superior customer satisfaction, Toyota is announcing a Limited Service Campaign, which includes your vehicle.

**What is the condition?**

In certain 2012 – 2013 Model Year Toyota Tundra and Sequoia vehicles equipped with a 5.7 Liter Gasoline or 5.7 Liter-Flex Fuel engine, 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.

**What is included in the Limited Service Campaign?**

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. If your Air Pump Assembly has failed due to this condition, it will be replaced at **NO CHARGE**.

***This Limited Service Campaign will be available until May 31, 2016, and will only be available at an authorized Toyota Dealer.***

All terms of your Toyota Emissions Control Warranties remain in effect whether or not you take advantage of this Limited Service Campaign. Additional details of your vehicle's emissions warranty coverage can be found in your Owner's Warranty and Service Guide booklet.

**How do you take advantage of this Limited Service Campaign?**

Please contact an authorized Toyota dealer and make an appointment to have your vehicle's ECM calibration updated as soon as possible.

Verifying the ECM calibration number and/or updating the software will take approximately 15 minutes. If the air pump needs to be replaced, the repair will take approximately 2 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

*If your vehicle is covered by this Limited Service Campaign, you do not need this owner letter to have the campaign completed; however, to assist the dealer in confirming vehicle eligibility, we request that you present this notice at the time of your service appointment.*

**What if you live in California and don't have this Limited Service Campaign 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, your vehicle 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.

Your 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.

**What if you have other questions?**

- Your local Toyota dealer will be more than happy to answer any of your questions and set up an appointment to perform the repair.
- You can find additional information and locate a Toyota dealer in your area by going online and visiting [www.toyota.com/recall](http://www.toyota.com/recall).

- If you require further assistance, you may contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 5:00 am to 6:00 pm, Saturday 7:00 am through 4:00 pm Pacific Time.

**What if you have previously paid for repairs to your vehicle for this specific condition?**

If you have previously paid for a repair to your vehicle for this specific condition prior to receiving this letter, please mail a copy of your repair order, proof-of-payment and proof-of-ownership to the following address for reimbursement consideration:

Toyota Motor Sales, U.S.A., Inc  
Toyota Customer Experience, WC 10  
19001 South Western Avenue  
Torrance, CA 90509

Include your name, address, and telephone number(s) in your request. Please allow us 6-9 weeks to process your request.

If you would like to update your vehicle ownership or contact information, please go to [www.toyota.com/ownersupdate](http://www.toyota.com/ownersupdate). You will need your full 17-digit Vehicle Identification Number (VIN) to input the new information. If you are a vehicle lessor, please assist us by forwarding this notice to the lessee.

We have sent this notice in the interest of your continued satisfaction with our products, and we sincerely regret any inconvenience this condition may have caused you.

Thank you for driving a Toyota.

Sincerely,  
TOYOTA MOTOR SALES, USA, INC.



Limited Service Campaign (LSC) – D0E  
Certain 2012 – 2013 Model Year Tundra and Sequoia Vehicles  
ECM Software Update – FAQ

## Frequently Asked Questions

Published Late April 2013

**Q1: What is the condition?**

A1: 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.

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

A2: An error in the Air Injection System Control Logic may cause the air injection pump to remain on for an extended period of time. If this condition occurs, there is a possibility that the air pump for bank 1 (driver’s side of the engine) may become inoperative.

**Q2a: What is an air injection pump?**

A2a: The air injection pump is an emissions control device 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: Yes. If the condition is present, your vehicles Check Engine Lamp will illuminate and the vehicle may 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 early May 2013.

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. If your Air Pump Assembly has failed due to this condition, it will be replaced at **NO CHARGE**.

**NOTE (Customer 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 122,000 Tundra and Sequoia vehicles covered by this Limited Service Campaign.

Model	MY	Production Date Range	Approximate UIO
Tundra	Certain 2012 – 2013	August 2011 – February 2013	103,000
Sequoia			19,000

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

A5a: No, only certain 2012 through 2013 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 15 minutes. If the air pump needs to be replaced, the repair will take approximately 2 hours. 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?**

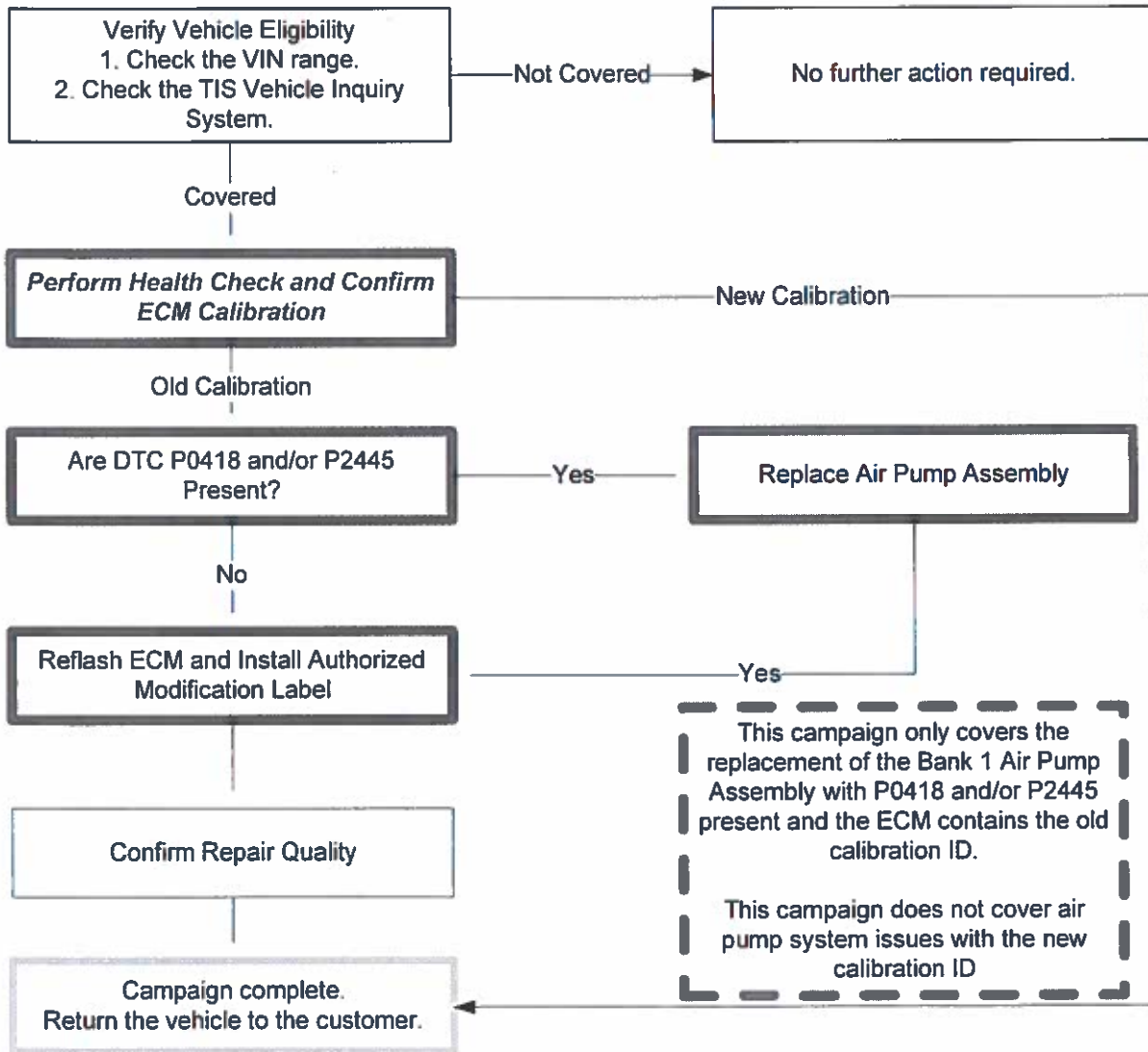
A7: This Limited Service Campaign will be available until **May 31, 2016**, and will only be available at an authorized Toyota Dealer.

**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 D0E**  
**ECM SOFTWARE UPDATE**  
**CERTAIN**  
**2012-2013 MODEL TUNDRA AND SEQUOIA (3UR)**

# I. OPERATION FLOW CHART



## II. IDENTIFICATION OF COVERED VEHICLES

### A. COVERED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
Tundra	5TF	2012	SY5F1	CX115763 - CX133240
			RY5F1	CX115741 - CX133343
			FY5F1	CX115748 - CX133338
			EY5F1	CX115742 - CX133344
			LY5F1	CX119994 - CX132781
			TY5F1	CX007329 - CX007783
			KW5F1	CX004862 - CX005477
			KY5F1	CX004864 - CX005483
			BW5F1	CX210466 - CX270264
			BY5F1	CX210406 - CX270673
			UW5F1	CX209603 - CX270708
			UY5F1	CX209605 - CX270710
			HW5F1	CX210415 - C X270709
			HY5F1	CX210407 - CX270704
			DW5F1	CX210404 - CX270700
			DY5F1	CX210405 - CX270692
			MW5F1	CX225354 - CX269483
			MY5F1	CX224394 - CX270593
		CW5F1	CX012677 - CX014385	
		CY5F1	CX012674 - CX014386	
		2013	SY5F1	DX133347 - DX140032
			RY5F1	DX133345 - DX140085
			FY5F1	DX133353 - DX140067
			EY5F1	DX133346 - DX140086
			LY5F1	DX133359 - DX140059
			TY5F1	DX007784 - DX007977
			KW5F1	DX005481 - DX005963
			KY5F1	DX005484 - DX005975
			BW5F1	DX270736 - DX295763
			BY5F1	DX270754 - DX295803
			UW5F1	DX270712 - DX295907
			UY5F1	DX270711 - DX295909
			HW5F1	DX270743 - DX295904
			HY5F1	DX270048 - DX295898
DW5F1	DX270716 - DX295906			
DY5F1	DX270714 - DX295908			
MW5F1	DX271629 - DX294039			
MY5F1	DX270740 - DX295797			
CW5F1	DX014389 - DX015086			
CY5F1	DX014387 - DX015090			

Model	WMI	Year	VIN Range	
			VDS	Range
Sequoia	5TF	2012	ZY5G1	CS037463 - CS043119
			KY5G1	CS037464 - CS043121
			YY5G1	CS037465 - CS043120
			BY5G1	CS055284 - CS073126
			JY5G1	CS055229 - CS073132
			DY5G1	CS055231 - CS073124
			BW5G1	CS055370 - CS073131
			JW5G1	CS055368 - CS073119
			DW5G1	CS055228 - CS073139
		2013	ZY5G1	DS042968 - DS047136
			KY5G1	DS043030 - DS047134
			YY5G1	DS043031 - DS047138
			BY5G1	DS072838 - DS083607
			JY5G1	DS072723 - DS083603
			DY5G1	DS072574 - DS083594
			BW5G1	DS072840 - DS083563
			JW5G1	DS072933 - DS083585
			DW5G1	DS072934 - DS083610

#### NOTE:

- 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 covered 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 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

### IV. 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.



## V. 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	DRIVETRAIN	TOWING OPTION	OLD CALIBRATION ID	UPDATED CALIBRATION ID		
TUNDRA	2012-2013	3UR-FE	2WD	STANDARD	30CJ5000 30CJ5100 30CJ5200	<u>30CJ5300</u>		
			4WD		30CJ5001 30CJ5101 30CJ5201	<u>30CJ5301</u>		
			2WD	TOW	30CJ6000 30CJ6100 30CJ6200	<u>30CJ6300</u>		
			4WD		30CJ6001 30CJ6101 30CJ6201	<u>30CJ6301</u>		
		3UR-FBE	4WD	STANDARD	30CJ9000 30CJ9100 30CJ9200	<u>30CJ9300</u>		
				TOW	30CK0000 30CK0100 30CK0200	<u>30CK0300</u>		
		SEQUOIA	2012-2013	3UR-FE	2WD	STANDARD	30CK2000 30CK2100 30CK2200	<u>30CK2300</u>
					4WD		30CK2001 30CK2101 30CK2201	<u>30CK2301</u>
2WD	TOW				30CK1000 30CK1100 30CK1200	<u>30CK1300</u>		
4WD					30CK1001 30CK1101 30CK1201	<u>30CK1301</u>		
3UR-FBE	4WD			STANDARD	30CK5000 30CK5100 30CK5200	<u>30CK5300</u>		
				TOW	30CK6000 30CK6100 30CK6200	<u>30CK6300</u>		



- 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 <u>Only!</u>
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.

## VI. 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:

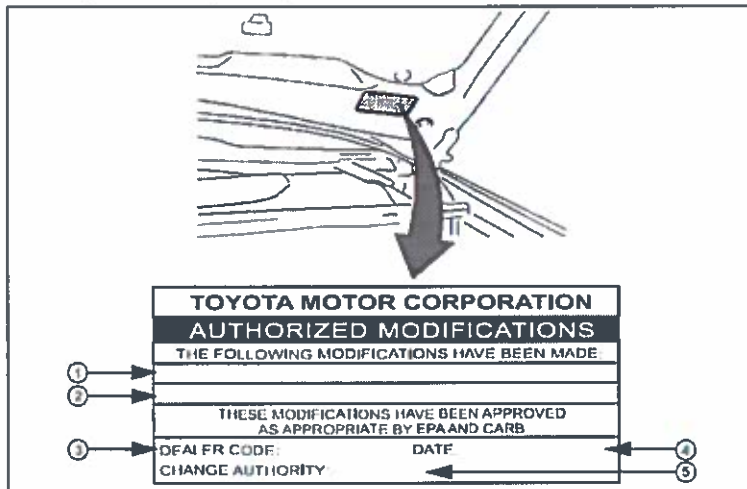
- For general reprogramming procedures, refer to [T-SB-0012-13](#).
- Confirm the latest version of Techstream software is being used.



- 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.



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

#### 1. CHECK FOR DTCs

## VII. 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

## VIII. APPENDIX

### A. CAMPAIGN DESIGNATION DECODER

