

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

***UPDATED April 7, 2016***

**TECHNICAL INSTRUCTIONS UPDATED NOTICE:**

**Updated 4/7/16**

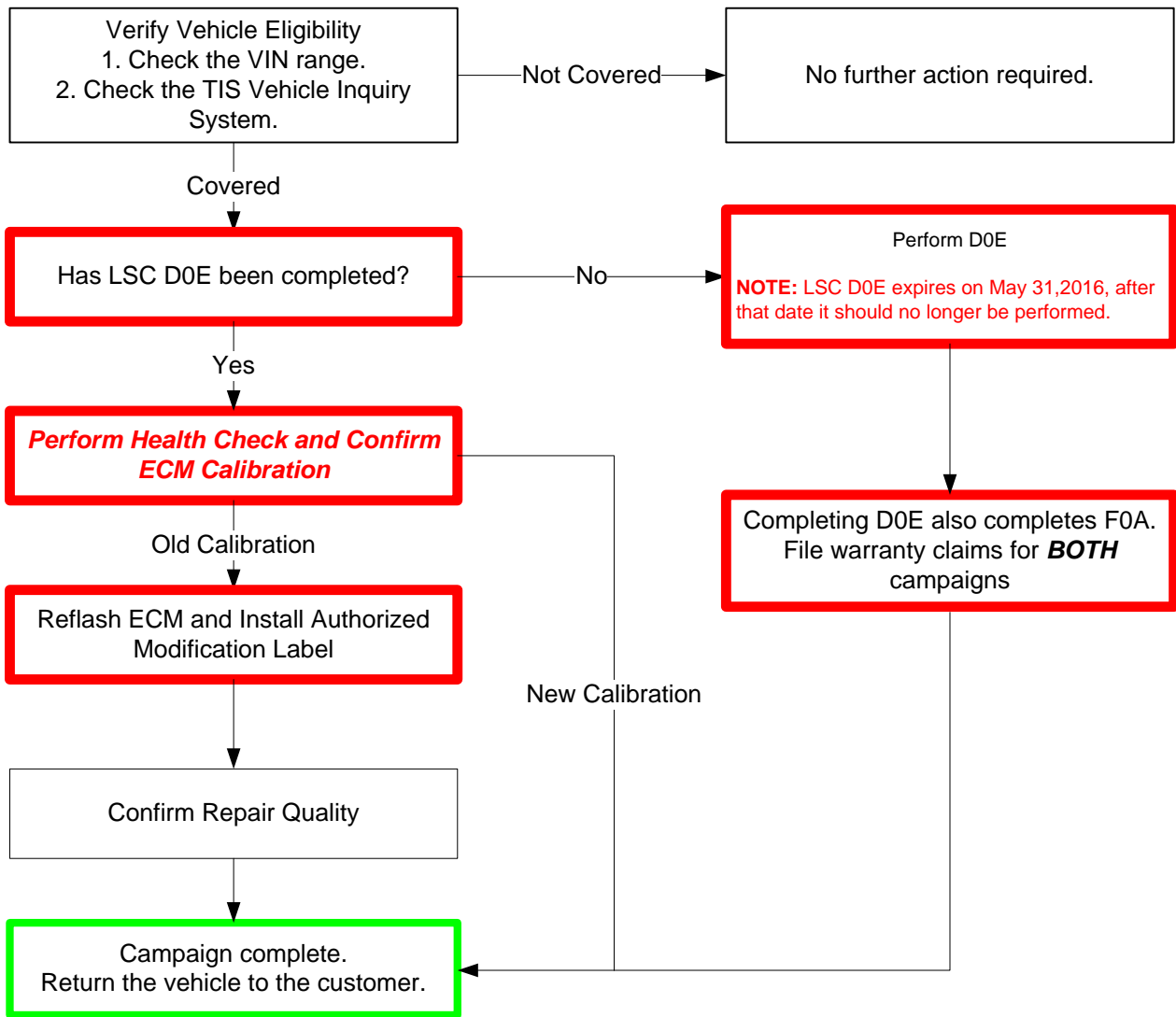
- **Now an SSC**
- **Added calibration table for vehicles equipped with a TRD Supercharger**

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- **Certified Technician (Any specialty)**
- **Expert Technician (Any specialty)**
- **Master Technician**
- **Master Diagnostic Technician**

Always check which technicians can perform the recall remedy by logging on to <https://www.uotdealerreports.com>. It is the dealership's responsibility to select technicians with the above certification level or greater to perform this 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.

## I. OPERATION FLOW CHART



### NOTE:

**THERE ARE DIFFERENT CALIBRATIONS FOR NORMALLY ASPIRATED VEHICLES AND VEHICLES EQUIPPED WITH A TRD SUPERCHARGER.**

**INSTALLATION OF A TRD SUPERCHARGER CALIBRATION IS NON-REVERSIBLE ONCE INSTALLED.**

## 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, Library, Diagnostics, Tech Assistance, and Vehicle Inquiry. The 'Vehicle Inquiry' tab is active. Below the navigation is a 'Vehicle Identification Number Search' section. A red box highlights the search input area with the text 'a. Input VIN and click 'Lookup''. The search input contains the VIN '5TD BW5G1 000000000' and 'Lookup' and 'Clear' buttons. Below the search is a 'Vehicle Information' section displaying details for a Toyota Sequoia SR5, 4WD, 5Dr. Wagon, with a date of first use of 08/20/2012 and a production date of 06/20/2012. The VIN is 5TD-BW5G1-000000000. Below this is an 'Accessories' section. At the bottom, there is a 'Service Campaign' section. A red box highlights the campaign details with the text 'b. Confirm the completion status of D0E.' and a note: 'NOTE: If campaign D0E is not applicable to the VIN, D0E will not be shown here.' The campaign details show: Campaign Description: Limited Service Campaign D0E - Certain 2012 - 2013 Model Year Tundra and Sequoia - ECM Software Update; Completion Status: Completed; Date Serviced: 06/06/13; Dealer Name: TOYOTA CENTER; Dealer Code: 33333. The footer of the page reads '© 2014 Toyota Motor Sales, Inc.' and 'Feedback'.

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 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



- The following calibrations are for normally aspirated vehicles only. If the vehicle is equipped with a TRD Supercharger refer to the APPENDIX for the supercharger calibrations.

### 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		
	3UR-FBE	4WD	-	-	30CJ9000	<a href="#">30CJ9500</a>		
					30CJ9100			
					30CJ9200			
					30CJ9300			
		Towing			30CJ9400		<a href="#">30CK0500</a>	
					30CK0000			
					30CK0100			
					30CK0200			
	2014	3UR-FE	2WD	-	-	Main	30CL0000	<a href="#">30CL0200 / 50C80100</a>
						Sub	30CL0100	
						50C80000		
			4WD			Main	30CL0001	
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>				
					Sub	30CJ4100					
					50C88000						
					30CJ4001						
			4WD		Main	30CJ4101	<a href="#">30CJ4201 / 50C88101</a>				
					Sub	50C88001					
					2WD	Towing		-	Main	30CG3000	<a href="#">30CG3200 / 50C87100</a>
									Sub	30CG3100	
50C87000											
30CG3001											
4WD		Main	30CG3101	<a href="#">30CG3201 / 50C87101</a>							
		Sub	50V87001								
		3UR-FBE	4WD		Towing & Non-Towing		Main	30CM0000	<a href="#">30CM0200 / 50CA2100</a>		
							Sub	30CM0100			
50CA2000											
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.



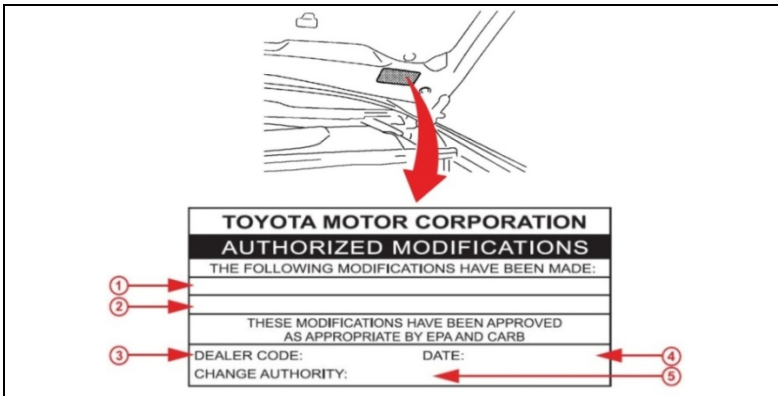
- A battery charger set to power supply mode **MUST** be used during reprogramming.
- ECM damage may occur if the correct battery charger setting is not used.

### 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. CALIBRATIONS FOR VEHICLES EQUIPPED WITH A TRD SUPERCHARGER



- The following calibrations are vehicles is equipped with a TRD Supercharger **ONLY**. Refer to pages 5 & 6 for normally aspirated vehicles.
- Installation of a TRD calibration file is non-reversible once installed.



MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID
Tundra	2012-2013	3UR-FE	2WD	-	-	30CJ5000	<a href="#">3YWF9400</a>
						30CJ5100	
						30CJ5200	
						30CJ5300	
						30CJ5400	
						3YWF5500	
						3YWF5700	
						3YWF5900	
			3YWF6800	<a href="#">3YWF9401</a>			
			30CJ5001				
			30CJ5101				
			30CJ5201				
			30CJ5301				
			30CJ5401				
			3YWF5501				
			3YWF5701				
			3YWF5901				
			3YWF6801	<a href="#">3YWF9500</a>			
			30CJ6000				
			30CJ6100				
			30CJ6200				
			30CJ6300				
			30CJ6400				
			3YWF5600				
3YWF5800							
3YWF6000							
3YWF6900	<a href="#">3YWF9501</a>						
30CJ6001							
30CJ6101							
30CJ6201							
30CJ6301							
30CJ6401							
3YWF5601							
3YWF5801							
3YWF6001							
3YWF6901							

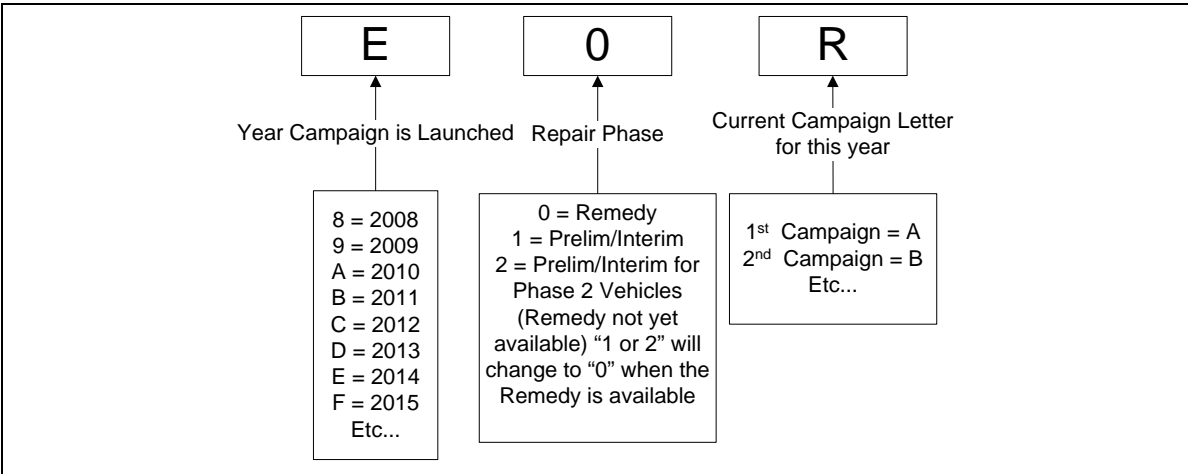


MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID			
Tundra	2014	3UR-FE	2WD	-	-	30CL0000	<a href="#">3YWF9800</a>			
						30CL0100				
						30CL0200				
						3YWF7800				
			3YWF9200							
			3YWF9600							
			30CL0001			<a href="#">3YWF9801</a>				
			30CL0101							
		30CL0201								
		3YWF7801								
		2WD	Towing	-	2WD	3YWF9201	<a href="#">3YWF9900</a>			
						3YWF9601				
						30CL1000				
						30CL1100				
			4WD		Towing	-		4WD	30CL1200	<a href="#">3YWF9901</a>
									3YWF7900	
3YWF9300										
3YWF9700										
30CL1001										
30CL1101										
30CL1201										
3YWF7901										
3YWF9301										
3YWF9701										

MODEL	YEAR	ENGINE	DRIVE	OPTION	ECU	CURRENT CID	NEW CID
Sequoia	2012-2013	3UR-FE	2WD	-	-	30CL1101	<a href="#">3YWL5700</a>
						30CL1201	
						30CK2200	
						30CK2300	
						3YWL3500	
						3YWL3700	
			3YWL3900			<a href="#">3YWL5701</a>	
			3YWL4700				
			30CK2001				
			30CK2101				
			30CK2201				
			30CK2301				
		2WD	Towing	-	2WD	3YWL3501	<a href="#">3YWL5800</a>
						3YWL3701	
						3YWL3901	
						3YWL4701	
						30CK1000	
						30CK1100	
		30CK1200	<a href="#">3YWL5801</a>				
		30CK1300					
		3YWL3600					
		3YWL3800					
		3YWL4000					
		3YWL4800					
4WD	Towing	-	4WD	30CK1001	<a href="#">3YWL5801</a>		
				30CK1101			
				30CK1201			
				30CK1301			
				3YWL3601			
				3YWL3801			
3YWL4001							
3YWL4801							

**NOTE: Superchargers are not available for the 2014 MY Sequoia vehicles.**

**B. CAMPAIGN DESIGNATION DECODER**



**Examples:**

- A0D = Launched in 2010, Remedy Phase, 4<sup>th</sup> Campaign Launched in 2010
- B1E = Launched in 2011, Interim Phase, 5<sup>rd</sup> Campaign Launched in 2011
- C1C = Launched in 2012, Interim Phase, 3<sup>rd</sup> Campaign Launched in 2012