

IMPORTANT UPDATE

TECHNICAL INSTRUCTIONS FOR SPECIAL SERVICE CAMPAIGN K0A ENGINE ECU SOFTWARE UPDATE CERTAIN 2018 CAMRY & 2018 SIENNA

(Reference the separate Technical Instructions for 2018 Tundra and Sequoia)

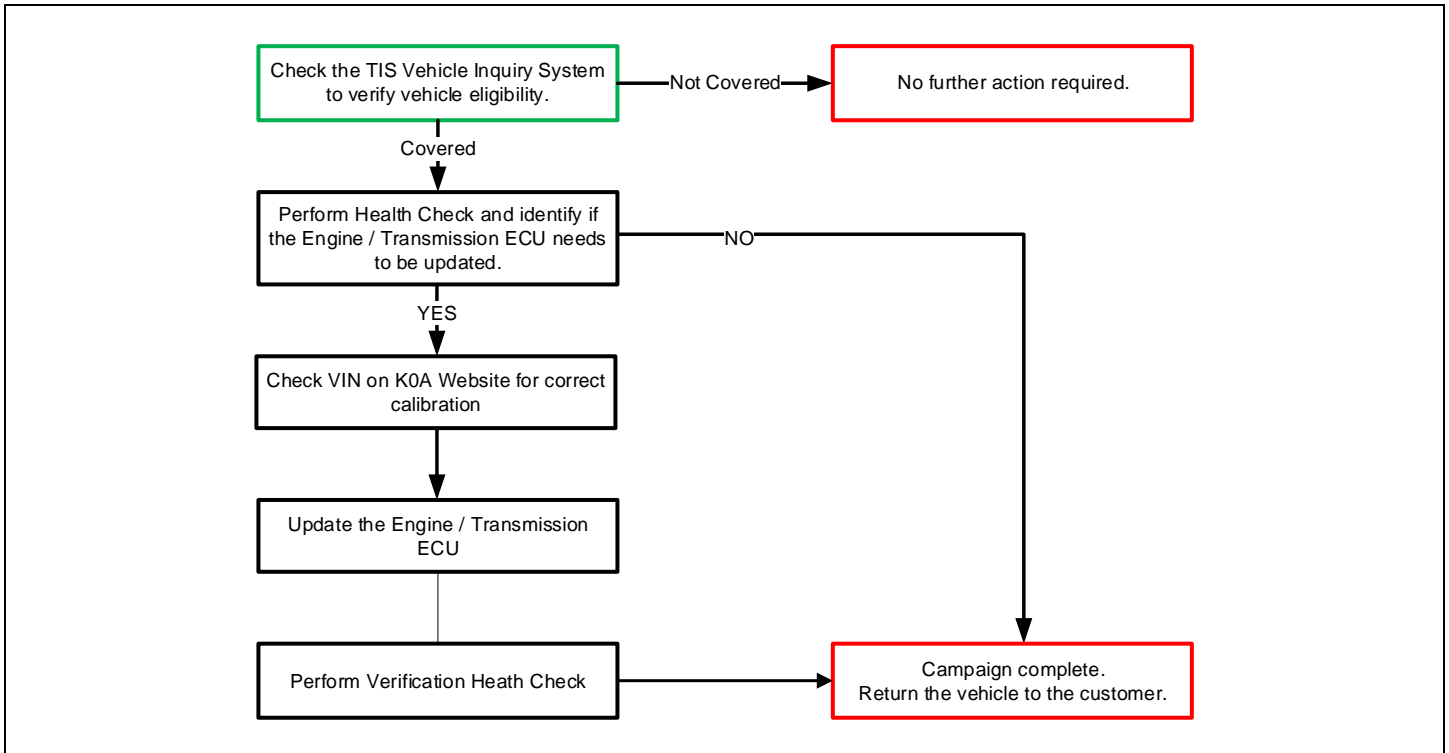
Update 4/5/2019: Note added on p. 6.

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall 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 recall 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 recall 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



II. IDENTIFICATION OF AFFECTED VEHICLES

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

III. PREPARATION

A. TOOLS, SUPPLIES & EQUIPMENT

- Standard Hand Tools
- Techstream 2.0 / TIS Techstream / Techstream Lite
- GR8 Battery Diagnostic Station
- T-SB-0134-16

B. PARTS

The only parts required for this campaign is the label below

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.

IV. BACKGROUND

The engine ECUs in the subject vehicles are equipped with software to monitor the rear oxygen sensors. Under a specific condition, this software may not detect a malfunctioning sensor due to an error in the software. As a result, affected vehicles do not meet certain onboard diagnostic (OBD) regulations.

V. DETERMINE STATUS OF CURRENT CALIBRATION



1. CHECK FOR DTC'S

- a. Using a Techstream, perform a Health Check to check for any Diagnostic Trouble Codes.

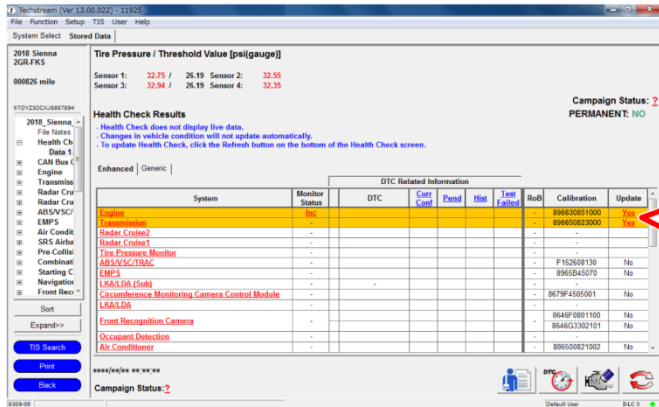
Note: This Campaign covers only the Calibration ID update to the Engine and ECT system, as detailed in these instructions. It does not cover the diagnosis or replacement of any other systems on the vehicle.

2. CONFIRM THE ECM CALIBRATION ID

- a) Perform a Health Check.
- b) Confirm the current calibration ID in the ECM (and transmission ECU).
- c) Referencing the table below, verify if the ECM (and transmission ECU) has the updated Calibration(s).

NOTE:

- The current calibration ID of either is shown depending on the vehicle model and specifications.
- In SIENNA, it is necessary to check the 2 IDs of the engine ECU and the transmission ECU.



Sample Cal IDs Shown

System	Calibration	Update
Engine	896630851000	Yes
Transmission	896650823000	Yes
Radial Cruise2	-	-
Radial Cruise1	-	-
Tire Pressure Monitor	-	-
ABS/VSC/TRAC	F152608130	No
EMPS	89650823000	No

018824101012

VI. VEHICLE PREPERATION

1. VEHICLE PREPARATION

a. Confirm the following conditions:

- Vehicle in the IG position (engine off).
- Transaxle in Park.
- Parking brake engaged.
- Turn off all electrical accessories (i.e. climate control, audio system, etc.)
- Headlight switch in the DRL OFF position.
- Windshield wiper switch in the OFF position.

2. CONNECT THE 12v BATTERY TO A POWER SUPPLY (GR8)

- a. Connect the GR8 or other type of a power supply (not a battery charger) to the 12v battery.
b. Select the Power Supply Mode from the Charge Menu of the GR8.



A power supply *MUST* be used during reprogramming. ECU damage will occur if the battery voltage is not properly maintained during this re-flash procedure.

Note: A power supply must be connected directly to the 12v battery terminals and NOT the remote jump posts under the hood (if equipped).

3. VERIFY TECHSTREAM SETUP

a. Verify that the Techstream meets the following conditions:

- The latest version of software is loaded.
- The Techstream battery is fully charged. If not, connect the Techstream to a 120v source.
- The DLCIII cable is in good condition.



The Techstream's battery voltage must be maintained during the update procedure. If necessary, plug the Techstream into a 120v outlet during this procedure.

Note: If the Techstream's communication with the vehicle fails during the update procedure, the Engine ECU will be damaged.

The CID Update Procedure is detailed in [T-SB-0134-16](#). Please reference this Bulletin for more detailed procedures and information.

VII. WEBSITE CALIBRATION CHECK

Toyota KOA (SSC KOA ENGINE ECU UPDATE)

Login

Complete all required (*) fields below.

* User ID:
#####

* Password:

Login

[Forgot Password?](#)

1. LOGIN KOA WEBSITE

a. Login into the website

URL: <https://toyota-k0a.imagespm.info/>

Username: *Dealer Code*

Password: xxxxx



There are a small number of vehicle that require a specific calibration that does not follow the table on the next page. Follow the instructions on the website before proceeding with the calibration update.

Search for VIN

Enter the 17-digit Vehicle Identification Number to begin the search for this campaign.

VIN:
|

Search

b. Enter the VIN into the website and follow the instructions displayed in the website before starting the calibration update

VIII. UPDATE CALIBRATION



Always confirm the both CID of the engine and the transmission in SIENNA, and judge whether reflash is necessary or not.

If either the engine or transmission CID does not match the NEW CID, ECU reflash is necessary.

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

Vehicle Specification		ECU Calibrations		
Model	Drive	System	Current CID	New CID
SIENNA	FWD	Engine and ECT	8966308 32000	Engine: <u>896630832100</u>
		Transmission	8966508 11000*	Transmission: 896650811000*
		Engine and ECT	8966308 51000	Engine & Transmission: <u>896630851100 / 896650823100</u>
		Transmission	8966508 23000	
	AWD	Engine	8966308 38000	Engine: <u>896630838100</u>
		Transmission	8966508 12000*	Transmission: 896650812000*
		Engine	8966308 52000	Engine & Transmission: <u>896630852100 / 896650824100</u>
		Transmission	8966508 24000	
CAMRY		Engine	8966306L 5000 8966306L 5100	Engine: <u>8966306L5200</u>
		Engine	8966306L 4000 8966306L 4100	Engine & Transmission: <u>8966306L4200 / 896650654000</u>
		Transmission	89665064 4000	



Be extremely careful to select the correct NEW CID that corresponds to the Current CID.

Note: If the ECM already has the New CID, the campaign is complete.

The CID Update Procedure is detailed in [T-SB-0134-16](#). Please reference this Bulletin for more detailed procedures and information.

Note: To insure the update process is completed before turning the ignition off, it is recommended to add a 10 second delay between step H and step I of [T-SB-0134-16](#). For example, after the Flash Calibration process has completed (Step H), wait 10 seconds before turning off the ignition (Step I).

IX. COMPLETE REPAIR



1. PERFORM VERIFICATION HEALTH CHECK

- Using a Techstream, perform a Health Check.
- Clear DTC's that may have set during the re-flash procedure.
- Re-run the Health Check to confirm that no DTC's reappear.**



THIS VERIFICATION HEALTH CHECK IS NECESSARY to update the results and CID's to the National database.

2. CONFIRM CID UPDATE

- On the Stored Data tab, confirm the following for the **Engine and ECT** Systems:

- The Calibration number has been updated**



DO NOT UPDATE THE VEHICLE CALIBRATION A SECOND TIME. There may still be an update available for the vehicle after the initial reflash.

System Select: **Stored Data**

2018 Sequoia
3UR-FE
015652 mile

Tire Pressure / Threshold Value [psi]

Sensor 1: 34.42 / 27.68 Sensor 2: 34.42 / 27.68
Sensor 3: 34.67 / 27.68 Sensor 4: 34.42 / 27.68
Sensor 5: 34.42 / 27.68

Health Check Results

- Health Check does not display live data
- Changes in vehicle condition will not update
- To update Health Check, click the Refresh button

Campaign Status: **Y**
PERMANENT: **NO**

System	SB	RoB	Calibration	Update
Engine and ECT	-	-	30CN8001	No
	-	-	74481000	No
Cruise Control	-	-	-	No
ABS/VSC/TRAC	-	-	F15260C170	No
PPS	-	-	8965B34010	No
Tire Pressure Monitor	-	-	897AF0010000	No
LKA/LDA	-	-	-	No
Front Recognition Camera	-	-	8646F0C02200	No
	-	-	8646G0C02200	No
Occupant Detection	-	-	-	No
Air Conditioner	-	-	-	No

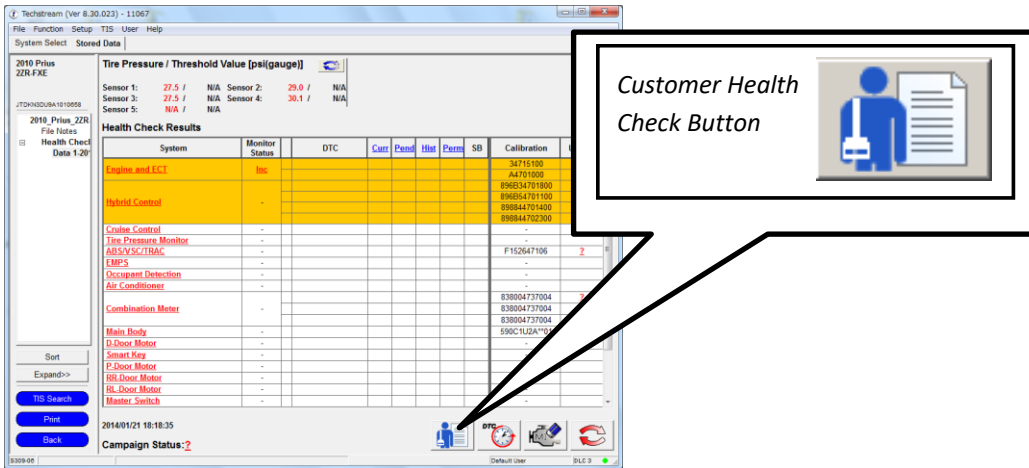
MUST be updated

May still say YES after first reflash depending on the vehicle.

DO NOT UPDATE THE VEHICLE CALIBRATION A SECOND TIME

3. PRINT CUSTOMER HEALTH CHECK REPORT

- a. From the Stored Data tab, select the Customer Health Check Report button (TIS will launch when button is pressed).



- b. Log in to TIS.
- c. Input Vehicle Mileage and Repair Order number.
- d. Check the “Performed” campaign button for campaign KLA.
- e. Select the Report button.
- f. Confirm Customer Health Check Report information is correct.
- g. Print Customer Health Check Report from TIS.
- h. Sign and provide to the customer.

4. 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 (XXX)

X. REASSEMBLY

1. REMOVE THE POWER SUPPLY FROM THE BATTERY

◀ VERIFY REPAIR QUALITY ▶

- Confirm the system Calibration has been updated successfully.
- Confirm there are no DTC's after the Calibration update.

XI. APPENDIX

A. PARTS DISPOSAL

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***

B. CAMPAIGN DESIGNATION DECORDER

