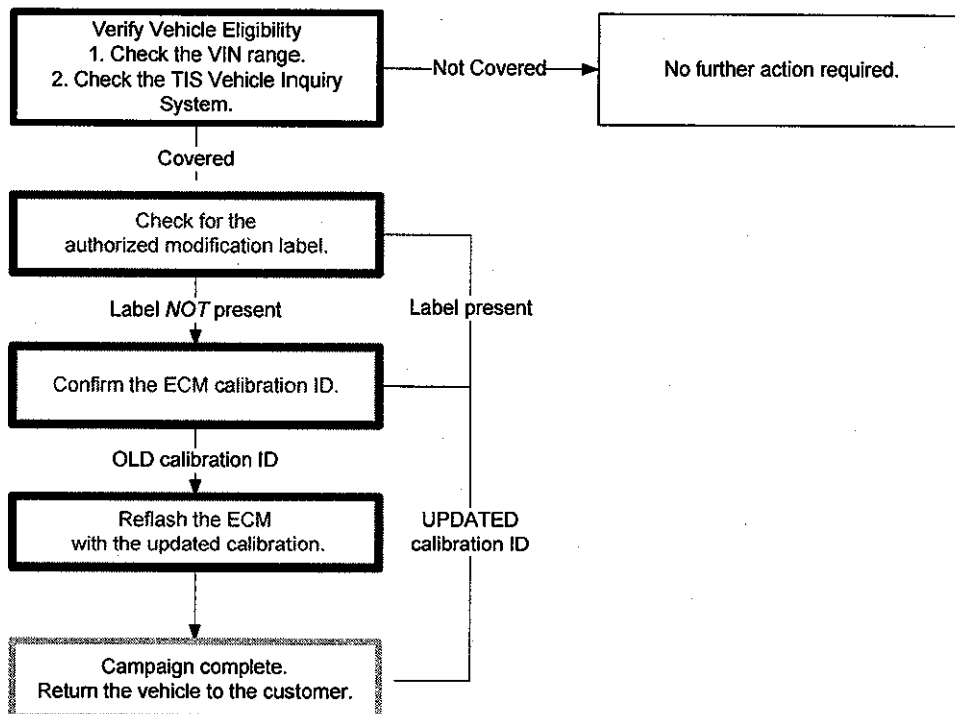


**TECHNICAL INSTRUCTIONS**  
**FOR**  
**SPECIAL SERVICE CAMPAIGN C0W**  
**ENGINE CONTROL MODULE (ECM) REFLASH**  
**CERTAIN 2013 MODEL YEAR SCION FR-S**

## I. OPERATION FLOW CHART



## II. IDENTIFICATION OF AFFECTED VEHICLES

### A. COVERED VIN RANGE

WMI	MY	VDS	START	FINISH
JF1	2013	ZNA1	1700031	1707728
			2700032	2707727

#### NOTE:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Special Service Campaign, 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

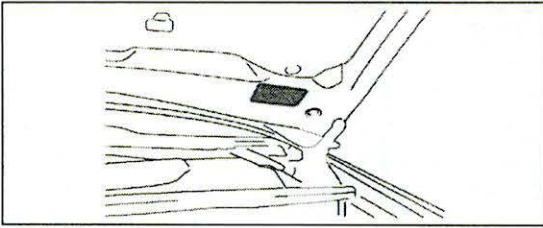
### B. TOOLS & EQUIPMENT

- TIS Techstream (Software 7.31 or Higher)
- Techstream 2.0
- Techstream Lite
- GR8 Battery Diagnostic Station

## IV. BACKGROUND

On certain 2013 Model Year Scion FR-S vehicles, the On Board Diagnostics II (OBD-II) System may need to be updated to meet the regulations set forth by the California Air Resources Board (CARB). An update for the Engine Control Module (ECM) to improve the monitoring parameters within the OBD-II system is now available. The correction ensures that the "Check Engine Light" will illuminate should an abnormal condition develop (such as the engine coolant not reaching or maintaining the proper operating temperature).

## V. ECM CALIBRATION ID VERIFICATION



### 1. CHECK FOR THE AUTHORIZED MODIFICATION LABEL

- a) Open the hood to determine if the modification label is present.

INSPECTION RESULT	ACTION REQUIRED
Label <b>NOT</b> present	Proceed to <b>STEP 2. ECM CAL ID</b>
Label present	Not affected, campaign complete

### 2. CONFIRM THE ECM CALIBRATION ID

- a) Perform a health check and confirm no DTCs are present.  
 b) Confirm the current calibration ID in the ECM.

MODEL	CURRENT CAL ID	ACTION REQUIRED
6AT	ZA1J700D	Proceed to <b>STEP VI. ECM REFLASH PROCEDURE</b>
	ZA1J900D	
6MT	ZA1J700C	
	ZA1J900C	

**NOTE:** If the calibration ID is **NOT** listed above, the vehicle is not affected and the campaign is complete.

## VI. ECM REFLASH PROCEDURE

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

### 2. REFLASH THE ECM

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

MODEL	CURRENT CAL ID	UPDATED CAL ID
6AT	ZA1J700D	<u>ZA1JA00D</u>
	ZA1J900D	
6MT	ZA1J700C	<u>ZA1JA00C</u>
	ZA1J900C	

**NOTE:**

- For general reprogramming procedures, refer to S-SB-0003-10.
- Confirm the latest version of Techstream software is being used.

### 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

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THESE MODIFICATIONS HAVE BEEN APPROVED  
 AS APPROPRIATE BY EPA AND CARB

DEALER CODE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHANGE AUTHORITY: \_\_\_\_\_

<b>1</b>	Replacement ECM P/N 6AT – SU003-04567 6MT – SU003-04568
<b>2</b>	New Calibration ID 6AT – ZA1JA00D 6MT – ZA1JA00C
<b>3</b>	Dealer Code
<b>4</b>	Date Completed
<b>5</b>	Campaign Code (COW)

### 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

### VII. APPENDIX

#### A. CAMPAIGN DESIGNATION DECODER

