TECHNICAL INSTRUCTIONS

FOR

SPECIAL SERVICE CAMPAIGN J0D

CONTINUOUSLY VARIABLE TRANSAXLE SOFTWARE UPDATE

CERTAIN 2014-2017 TOYOTA Corolla CERTAIN 2017 TOYOTA Corolla iM CERTAIN 2016 SCION iM

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 <u>at least one</u> of the following certification levels:

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

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

1. 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

2. TOOLS, SUPPLIES & EQUIPMENT

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

IV. BACKGROUND

The subject vehicles' transmission has improper programming that could lead a component to unnecessarily cycle and experience abnormal wear. If this component becomes damaged, the malfunction indicator lamp may illuminate in the instrument cluster and the vehicle could experience a reduction of speed. After reaching a pre-determined gear ratio, the vehicle can be operated up to approximately 37 mph.



V. ECM CALIBRATION ID VERIFICATION AND DTC CHECK



2014 Corolla 2ZR-FE	Tire Pressure / Threshold Value [psi(gauge)]	d DTC P2820		
	Sensor 1: 39.41 / N/A Sensor 2: 39.65 / N/A Sensor 3: 39.41 / N/A Sensor 4: 40.15 - N/A Sensor 5: N/A / - M/A	<u> </u>		
87FBURHE3EP063382 2011_contilla_22 File Notes ⊟ Health Checl Data 1-4/1 ⊞ Time Stamp	Health Check Results - Health Check does not display live data. - Changes in vehicle condition will not update automatically. - To update Health Check, click the Refresh button on the bottom of the Health Check screen			Campaign Sta
Engine and E Cruise Contre	System	Monitor	Curr Pend Hist Perm	Calibration Upd
		Status P2820		302Y7000 N
EMPS Air Condition	Engine and ECT	Inc		50206000 N
SRS Airbag	Smart Key	- U0142		-
Combination	Power Source Control	- U0140	X	
Starting Con	Cruise Control			-
Tire Pressure	ABS/VSC/TRAC		F	152612291 N
Main Body	EMPS	-	8	965B02052
D-Door Motor	Tire Pressure Monitor	· ·		-
Sliding Roof	Occupant Detection	-		-
E Smart Key	Air Conditioner		800	8000ZU0010 P
Power Source	Main Body			2210228003 N
 Occupant De 	D-Door Motor			2210230003 1
	Sliding Boof			
Sort	SRS Airbag		8	917F02244
	Starting Control			-
Expand>>				
TIS Search				
Print			DTG	
Close			(C ²)	

If vehicle is <u>out-of-warranty</u>, DSPM authorization is required prior to proceeding with CVT assembly replacement. Refer to the Dealer Letter for further instructions.

2. DETERMINE CALIBRATION ID

- a. Identify the Calibration ID for the ECM in the Health Check Results.b. Referencing the table below, verify if the ECM has the updated Calibration.



Vehicle Specification				ECM Calibrations		
Model	MY	Engine	Shift Type	Current CID	New CID	
		2ZR-FAE	Gate	302Y <u>6000</u>		
				302Y <u>6100</u>		
				302Y <u>6200</u>	302Y <u>6500</u>	
				302Y <u>6300</u>		
				302Y <u>6400</u>		
			Gate	302W <u>8000</u>		
2014 COROLLA				302W <u>8100</u>		
	2014			302W <u>8200</u>	302W <u>8500</u>	
				302W <u>8300</u>		
		270 EE		302W <u>8400</u>		
		ZZK-FE	Sequential	302Y <u>7000</u>		
				302Y <u>7100</u>		
				302Y <u>7200</u>	302Y <u>7500</u>	
				302Y <u>7300</u>		
				302Y <u>7400</u>		
	2015	2ZR-FAE	Gate	302U <u>1000</u>		
				302U <u>1100</u>	302U <u>1300</u>	
				302U <u>1200</u>		
	2010	070 55	Oata	30Z5 <u>8000</u>	20758200	
	ZZR-FE	Gate	30Z5 <u>8100</u>	3023 <u>0300</u>		

Vehicle Specification				ECM Calibrations	
Model	MY	Engine	Shift Type	Current CID	New CID
		2ZR-FE	Gate	30Z5 <u>8200</u>	30Z5 <u>8300</u>
	2015			30Z5 <u>9000</u>	
	2016		Sequential	30Z5 <u>9100</u>	30Z5 <u>9300</u>
				30Z5 <u>9200</u>	
COROLLA 2017		2ZR-FAE	Cata	30ZC <u>1000</u>	20701200
			Gate	30ZC <u>1100</u>	3020 <u>1200</u>
	2017		Gate	30ZC <u>2000</u>	20702200
	2017	270 EE		30ZC <u>2100</u>	3020 <u>2200</u>
		22R-FE	Sequential	30ZC <u>3000</u>	20702200
				30ZC <u>3100</u>	3020 <u>3200</u>
iM	2016 2ZR-		AE Sequential	30W0 <u>1000</u>	2010/01/200
		ZZR-FAE		30W0 <u>1100</u>	30990 <u>1200</u>
COROLLA iM	2017 2ZR-FAE	017 2ZR-FAE Seque	Convential	30W0 <u>3000</u>	2014/02200
			Sequential	30W0 <u>3100</u>	30440 <u>3200</u>



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

VI. ECM REFLASH PROCEDURE

1. VEHICLE PREP

a. Prior to vehicle shut down preform the following steps:

- Vehicle in the IG on position.
- Transaxle in the P range.
- Parking brake engaged.
- Turn off all electrical accessories (i.e. climate control, audio system, etc.)

b. Headlight switch in the DRL OFF position.

c. Turn off the vehicle.

2. 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 reflash. ECU damage may occur if the correct battery charge setting is not used.

3. REFLASH THE ECM

a. Click yes on the Health Check results screen or follow the links above to begin the reflash process.

NOTE:

- Reflash procedure takes about 15 minutes.
- In case reflash failed EVEN ONCE, replace the ECM. (Refer to TIS for instructions on 2ZR-FAE ENGINE CONTROL / ECM or 2ZR-FE ENGINE CONTROL / ECM) After ECM replacement recheck the calibration ID and perform the reflash if it is NOT the new calibration ID.
- For general reprogramming procedures, refer to T-SB-0134-16.
- 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.

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)

5. DISCONNECT THE GR8

6. PERFORM A HEALTH CHECK AND CLEAR DTCs

a. Perform a Health Check on the vehicle.

b. Clear DTCs that have been set during the reflash procedure **NOTE:**

- Clear any DTC's found that have been set during the reflash procedure and are not an indication of a malfunction.
- If DTC's cannot be cleared, cycle the ignition or START/STOP switch 30 seconds OFF then 30 seconds ON 3 times then clear DTC's

◄ 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 SSC, please contact your regional representative

VII. APPENDIX

1. 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**.

2. CAMPAIGN DESIGNATION DECORDER

