

MIL "ON" DTC P2610

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2014 - 2017	Corolla, Prius C	
2014 - 2015	Land Cruiser	
2016 - 2017	RAV4 HV	
2015 - 2017	RAV4	
2015 - 2018	Yaris	
2017	iM	

Introduction

Some 2014 – 2018 model year Toyota vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P2610 (Engine Off Timer Performance) present. The Engine Control Module (ECM) (SAE term: Powertrain Control Module [PCM]) logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure below to address this condition.

Warranty Information

OP CODE	DESCRIPTION	MODEL	YEAR	ENGINE	DRIVETRAIN	TIME	OFF	T1	T2
EG1716	Reprogram ECM (PCM)	Yaris	2015	1NZ-FE	MT	0.4	89661-0DR30	8A	99
					AT		89661-0DR50		
			2016 – 2018		MT		89661-0DV10		
			AT		89661-0DV20				
		RAV4	2015	2AR-FE	2WD		89661-0R460 89661-0R461		
					4WD		89661-0R470 89661-0R471		

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Warranty Information (Continued)

OP CODE	DESCRIPTION	MODEL	YEAR	ENGINE	DRIVETRAIN	TIME	OFF	T1	T2	
EG1716	Reprogram ECM (PCM)	RAV4	2016 – 2017	2AR-FE	2WD	0.4	89661-42V90 89661-0R510	8A	99	
					4WD		89661-42W00 89661-0R520			
		RAV4 HV	2014 – 2015	2AR-FXE	–		89661-42K70			
		Land Cruiser		3UR-FE			89661-60U50			
		Prius C	2016 – 2017	1NZ-FXE	–		89661-5C330 89661-5C331 89661-5C332			
							89661-5C750			
		Corolla	2014	2ZR-FE	2ZR-FE		MT			89661-0ZB60 89661-0ZB61 89661-0ZB62 89661-0ZB63
							4AT			89661-0ZB50 89661-0ZB51 89661-0ZB52 89661-0ZB53
							CVT-Sequential			89661-0ZD40 89661-0ZD41 89661-0ZD42 89661-0ZD43 89661-0ZD44
							CVT-Gate			89661-0ZB40 89661-0ZB41 89661-0ZB42 89661-0ZB43 89661-0ZB44
							2ZR-FAE			FAE CVT-Gate

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Warranty Information (Continued)

OP CODE	DESCRIPTION	MODEL	YEAR	ENGINE	DRIVETRAIN	TIME	OFF	T1	T2
EG1716	Reprogram ECM (PCM)	Corolla	2015 – 2016	2ZR-FE	MT	0.4	89661-0Z660 89661-0Z661	8A	99
					4AT		89661-0Z650 89661-0Z651		
					CVT-Sequential		89661-0Z640 89661-0Z641 89661-0Z642		
				CVT-Gate	89661-0Z630 89661-0Z631 89661-0Z632				
			2ZR-FAE	89661-0Z620 89661-0Z621 89661-0Z622					
			2017	2ZR-FE	MT		89661-0ZR10		
					CVT-Sequential		89661-0ZR00 89661-0ZR01		
				2ZE-FAE	CVT-Gate		89661-0ZQ90 89661-0ZQ91		
		AT			89661-0ZQ80 89661-0ZQ81				
		iM	2ZR-FAE	AT	89661-0W190 89661-0W191				
				MT	89661-0W200				

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 96 months or 80,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

MODEL	YEAR	ENGINE	DRIVETRAIN	PART NUMBER		PART NAME	QTY
				PREVIOUS	NEW		
Yaris	2015	1NZ-FE	MT	89661-0DR30	89661-0DR31	Computer, Engine Control (ECM/PCM)	-
			AT	89661-0DR50	89661-0DR51		
	2016 – 2018		MT	89661-0DV10	89661-0DV11		
			AT	89661-0DV20	89661-0DV21		

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Parts Information (Continued)

MODEL	YEAR	ENGINE	DRIVETRAIN	PART NUMBER		PART NAME	QTY
				PREVIOUS	NEW		
RAV4	2015	2AR-FE	2WD	89661-0R460 89661-0R461	89661-0R462	Computer, Engine Control (ECM/PCM)	-
			4WD	89661-0R470 89661-0R471	89661-0R472		
	2016 – 2017		2WD	89661-42V90 89661-0R510	89661-42V91 89661-0R511		
			4WD	89661-42W00 89661-0R520	89661-42W01 89661-0R521		
RAV4 HV	2014 – 2015	2AR-FXE		89661-42K70	89661-42K71		
Land Cruiser		3UR-FE		89661-60U50	89661-60U51		
Prius C	2014 – 2015	1NZ-FXE	-	89661-5C330 89661-5C331 89661-5C332	89661-5C333		
				2016 – 2017	89661-5C750		
Corolla	2014			2ZR-FE	MT	89661-0ZB60 89661-0ZB61 89661-0ZB62 89661-0ZB63	89661-0ZB64
					4AT	89661-0ZB50 89661-0ZB51 89661-0ZB52 89661-0ZB53	89661-0ZB54
		CVT- Sequential	89661-0ZD40 89661-0ZD41 89661-0ZD42 89661-0ZD43 89661-0ZD44		89661-0ZD45		
		CVT-Gate	89661-0ZB40 89661-0ZB41 89661-0ZB42 89661-0ZB43 89661-0ZB44		89661-0ZB45		
		2ZR-FAE	FAE CVT-Gate	89661-0ZD30 89661-0ZD31 89661-0ZD32 89661-0ZD33 89661-0ZD34	89661-0ZD35		

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Parts Information (Continued)

MODEL	YEAR	ENGINE	DRIVETRAIN	PART NUMBER		PART NAME	QTY
				PREVIOUS	NEW		
Corolla	2015 – 2016	2ZR-FE	MT	89661-0Z660 89661-0Z661	89661-0Z662	Computer, Engine Control (ECM/PCM)	–
			4AT	89661-0Z650 89661-0Z651	89661-0Z650 89661-0Z651		
			CVT-Sequential	89661-0Z640 89661-0Z641 89661-0Z642	89661-0Z643		
		CVT-Gate	89661-0Z630 89661-0Z631 89661-0Z632	89661-0Z633			
	2ZR-FAE		89661-0Z620 89661-0Z621 89661-0Z622	89661-0Z623			
	2017	2ZR-FE	MT	89661-0ZR10	89661-0ZR11		
			CVT-Sequential	89661-0ZR00 89661-0ZR01	89661-0ZR02		
		CVT-Gate	89661-0ZQ90 89661-0ZQ91	89661-0ZQ92			
	2ZE-FAE		89661-0ZQ80 89661-0ZQ81	89661-0ZQ82			
	iM	2ZR-FAE	AT	89661-0W190 89661-0W191	89661-0W192		
MT			89661-0W200	89661-0W201			
–	–	–	–	00451-00001-LBL	Authorized Modifications Labels	1	

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Parts – Dealer Support Materials Orders*.

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 12.20.024 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

* Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

Calibration Information

MODEL	YEAR	ENGINE	DRIVETRAIN	ECU TYPE	CALIBRATION ID	
					PREVIOUS	NEW
Yaris	2015	1NZ-FE	MT	Main	30DL4000	30DL4100
			AT	Main	30DL5000	30DL5100
	2016 – 2018		MT	Main	30DR2000	30DR2100
			AT	Main	30DR3000	30DR3100
RAV4	2015	2AR-FE	2WD	Main	342G4000 342G4100	342G4200
				Sub	54210000	54210100
			4WD	Main	342G5000 342G5100	342G5200
				Sub	54211000	54211100
	2016 – 2017		2WD	Main	342Q1000	342Q1100
			4WD	Main	342Q2000	342Q2100

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Calibration Information (Continued)

MODEL	YEAR	ENGINE	DRIVETRAIN	ECU TYPE	CALIBRATION ID	
					PREVIOUS	NEW
RAV4 HV	2016 – 2017	2AR-FXE	-	Main	342N9000	342N9100
Land Cruiser	2014 – 2015	3UR-FE		Main	360P3000	360P3100
Prius C	2014 – 2015	1NZ-FXE		Main	35C16000 35C16100 35C16200	35C16300
	2016 – 2017			Main	35C45000	35C45100
Corolla	2014	2ZR-FE	MT	Main	302X0000 302X0100 302X0200 302X0300	302X0400
			4AT	Main	302W9000 302W9100 302W9200 302W9300	302W9400
			CVT-Sequential	Main	302Y7000 302Y7100 302Y7200 302Y7300 302Y7400	302Y7500
			CVT-Gate	Main	302W8000 302W8100 302W8200 302W8300 302W8400	302W8500
		2ZR-FAE	FAE CVT-Gate	Main	302Y6000 302Y6100 302Y6200 302Y6300 302Y6400	302Y6500

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Calibration Information (Continued)

MODEL	YEAR	ENGINE	DRIVETRAIN	ECU TYPE	CALIBRATION ID		
					PREVIOUS	NEW	
Corolla	2015 – 2016	2ZR-FE	MT	Main	30Z61000 60Z61100	30Z61200	
			4AT	Main	30Z60000 30Z60100	30Z60200	
			CVT-Sequential	Main	30Z59000 30Z59100 30Z59200	30Z59300	
			CVT-Gate	Main	30Z58000 30Z58100 30Z58200	30Z58300	
		2ZR-FAE	CVT-Gate	Main	302U1000 302U1100 302U1200	302U1300	
	2017	2ZR-FE	MT	Main	30ZC4000	30ZC4100	
			CVT-Sequential	Main	30ZC3000 30ZC3100	30ZC3200	
			CVT-Gate	Main	30ZC2000 30ZC2100	30ZC2200	
			2ZE-FAE	CVT-Gate	Main	30ZC1000 30ZC1100	30ZC1200
			2ZR-FAE	AT	Main	30W03000 30W03100	30W03200
iM			MT	Main	30W04000	30W04100	

Repair Procedure

- Using Techstream, check for the following stored DTC:
P2610 – Engine Off Timer Performance.
Is the DTC present?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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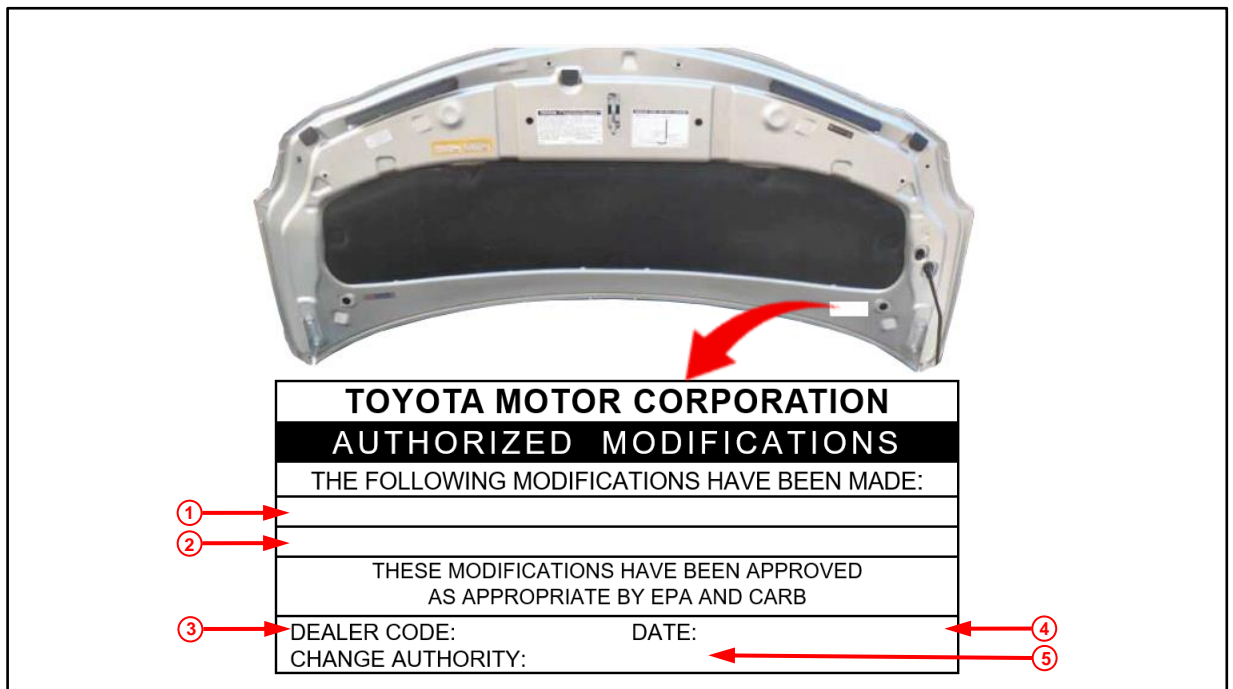
Repair Procedure (Continued)

2. Check for the Authorized Modifications Label affixed to the vehicle in the locations shown below. Confirm if the ECM (PCM) calibration has been updated.

Is the calibration ID listed the latest ECM (PCM) calibration?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to Step 3.

Figure 1. Location of Authorized Modifications Label on 2015 – 2018 Yaris



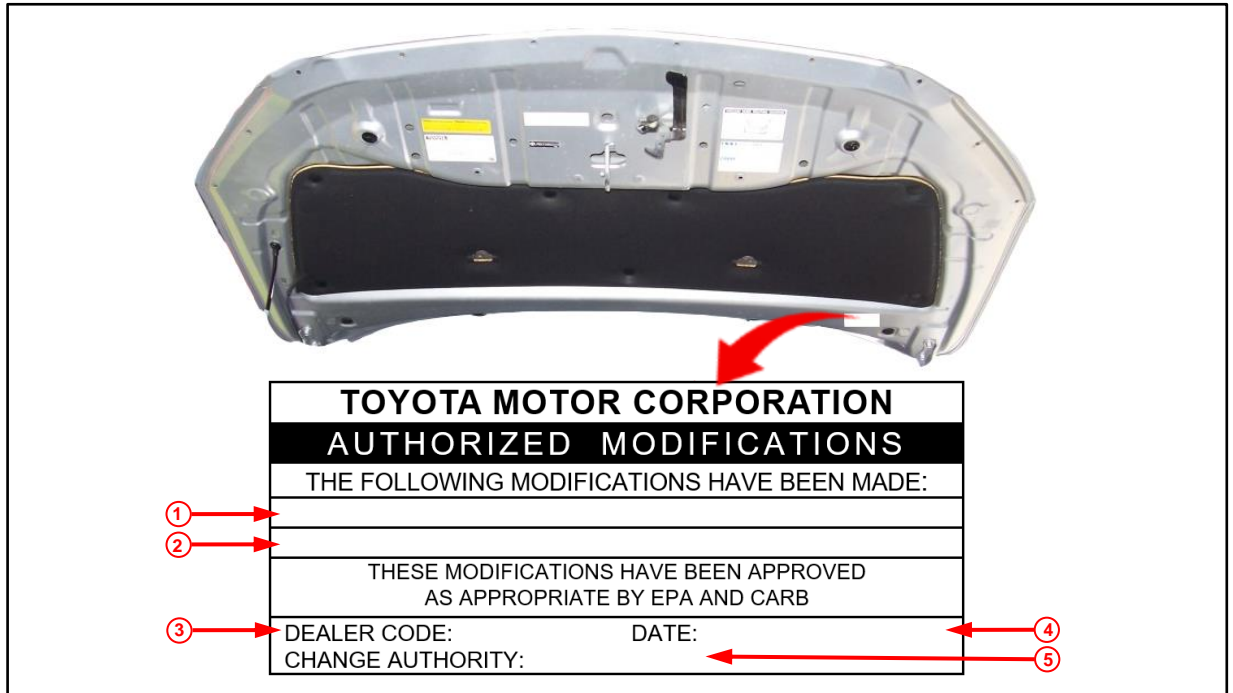
1	Replacement ECM (PCM) Part Number (e.g., 89661-0DR31)
2	New Calibration ID (e.g., 30DL4100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 2. Location of Authorized Modifications Label on 2015 – 2017 RAV4 and 2016 – 2017 RAV4 HV



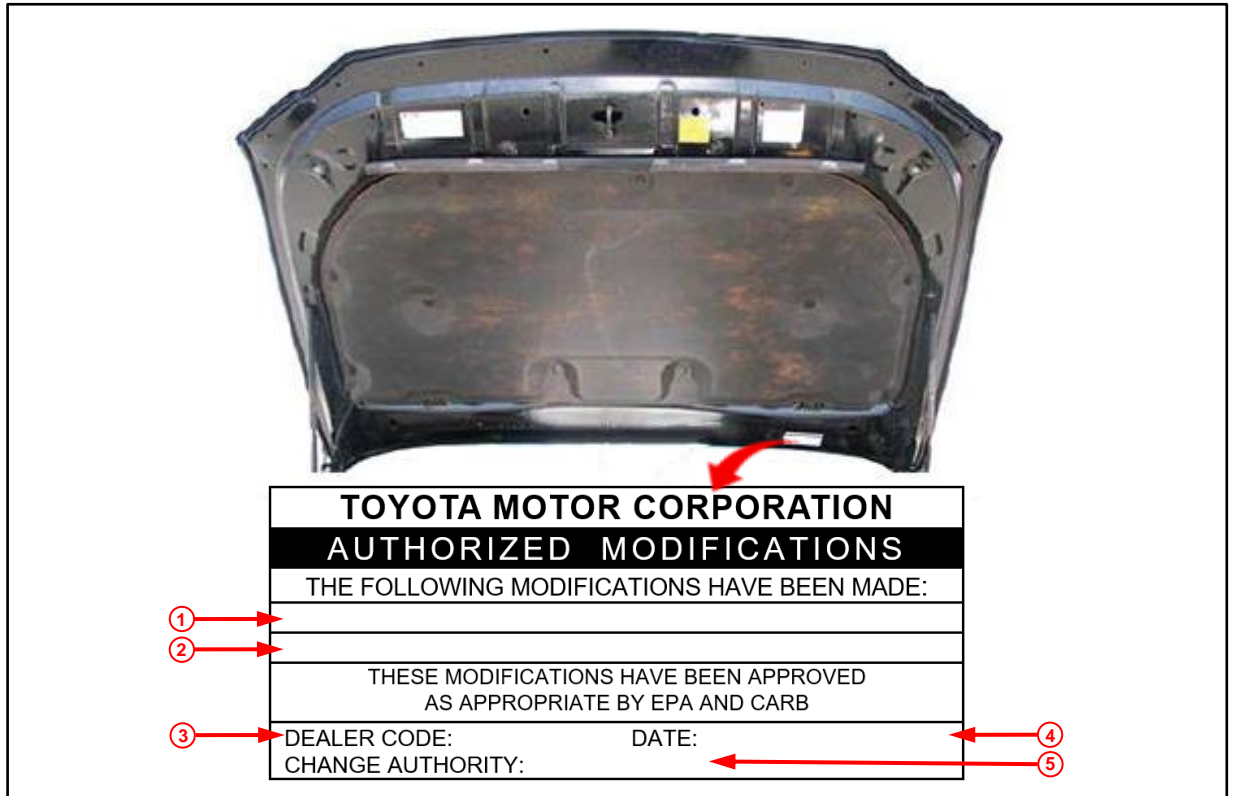
1	Replacement ECM (PCM) Part Number (e.g., 89661-0R462)
2	New Calibration ID (e.g., 342G4200)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 3. Location of Authorized Modifications Label for 2014 – 2015 Land Cruiser



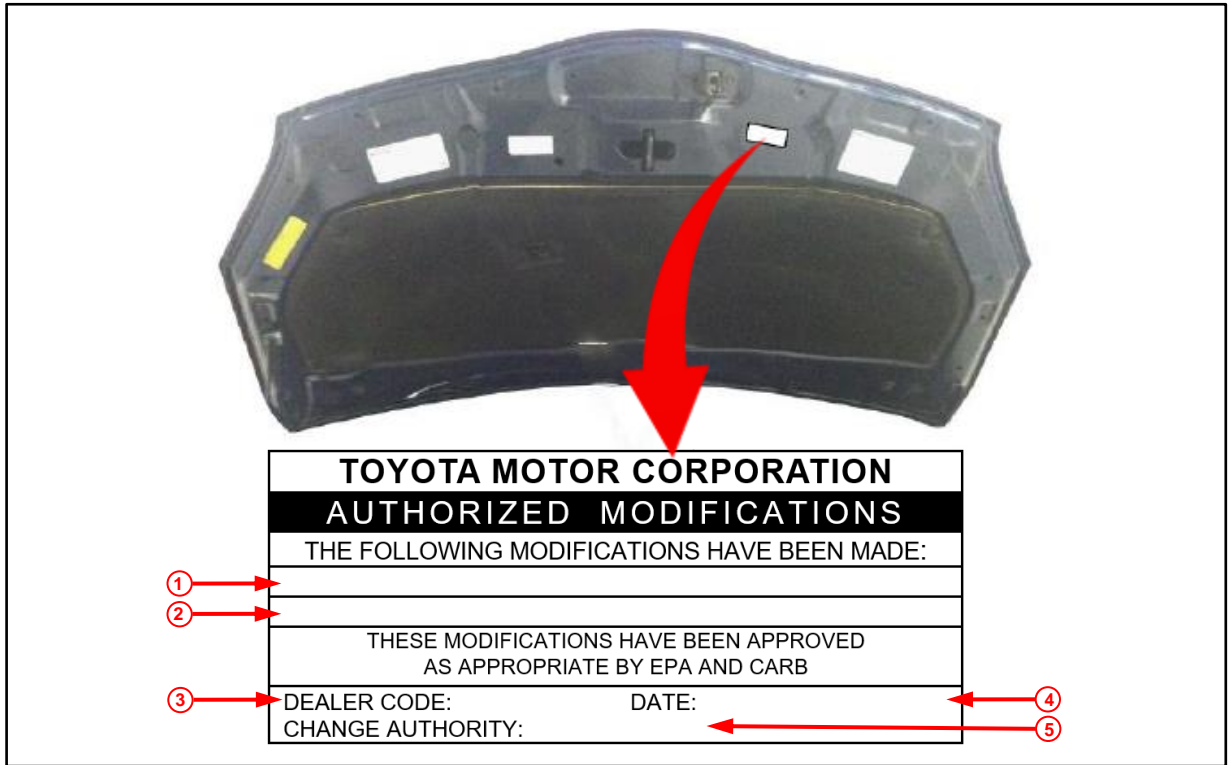
1	Replacement ECM (PCM) Part Number (e.g., 89661-60U51)
2	New Calibration ID (e.g., 360P3100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 4. Location of Authorized Modifications Label on 2014 – 2017 Prius C



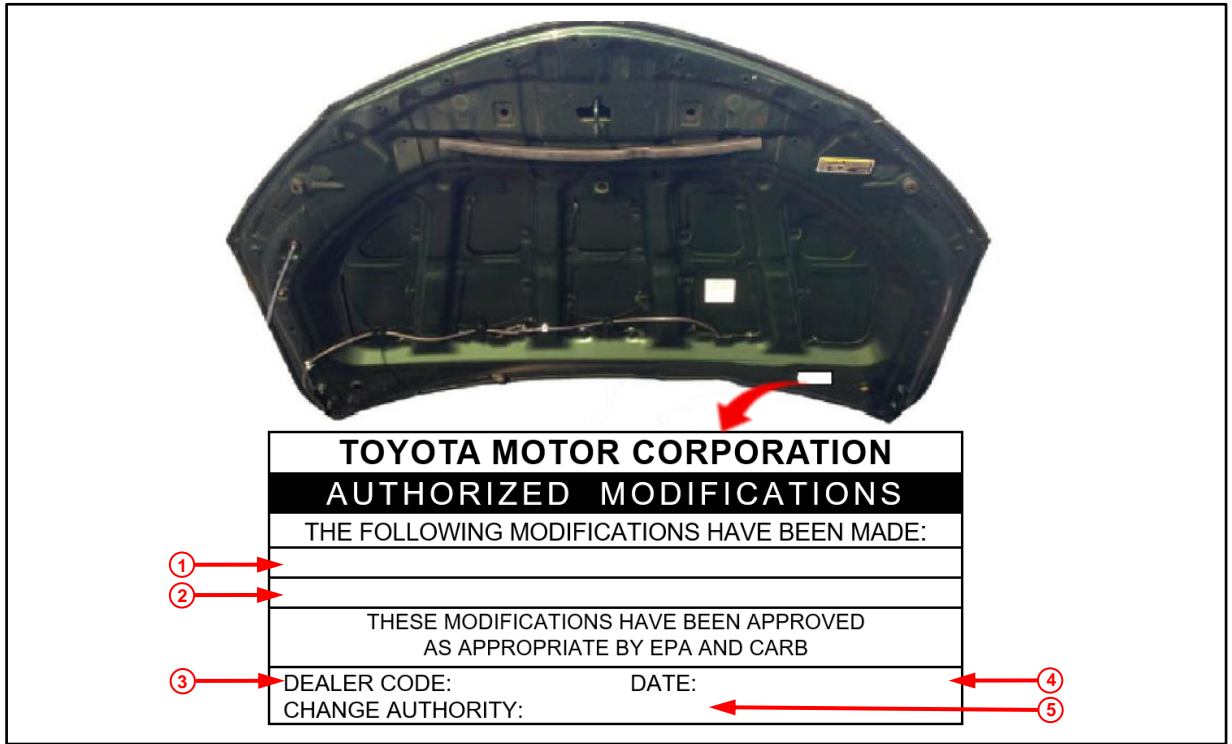
1	Replacement ECM (PCM) Part Number (e.g., 89661-5C333)
2	New Calibration ID (e.g., 35C16300)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 5. Location of Authorized Modifications Label on 2014 – 2017 Corolla



1	Replacement ECM (PCM) Part Number (e.g., 89661-0ZB64)
2	New Calibration ID (e.g., 302X0400)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 6. Location of Authorized Modifications Label for 2017 iM



1	Replacement ECM (PCM) Part Number (e.g., 89661-0W192)
2	New Calibration ID (e.g., 30W03200)
3	Dealer Code

4	Date Completed
5	This SB Number

3. Flash reprogram the ECM (PCM).

NOTE

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the "[GR8 Instruction Manual](#)" located on the Technical Information System (TIS), *Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [T-SB-0134-16](#), "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (Continued)

4. Prepare and install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM (PCM) part number [*Refer to the **Parts Information** section for the **NEW PART NUMBER***]
 - Calibration ID(s) [*Refer to the **Calibration Information** section for the **NEW CALIBRATION ID***]
 - Dealer Code
 - Repair Date
 - Change Authority [***This bulletin number***]
 - B. Install the Authorized Modifications Label onto the vehicle at the locations shown in Figures 1 – 6. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test drive the vehicle to confirm proper vehicle operation.