

MIL "ON" DTC P2646 and/or P265B

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2014	Corolla	VDS(s): BPRHE

Introduction

Some 2014 model year Corolla vehicles equipped with the 2ZR-FAE engine may exhibit a MIL "ON" condition with either one or both of the following Diagnostic Trouble Codes (DTCs):

- P2646 – A Rocker Arm Actuator System Performance or Stuck Off (Bank 1)
- P265B – B Rocker Arm Actuator Position Sensor Circuit Range Performance (Bank 1)

The Engine Control Module (ECM, SAE term: Powertrain Control Module/PCM) calibration has been revised. Use the following repair procedure to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1401	Reprogram ECM (PCM) Engine	0.4	89661-0ZD30	04	99

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

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89661-0ZD30	89661-0ZD31	Computer, Engine Control (ECM/PCM)	-
00451-00001-LBL		Authorized Modification Labels	1

MIL "ON" DTC P2646 and/or P265B

Parts Information (Continued)

NOTE

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

Calibration Information

MODEL YEAR	MODEL	ENGINE	CALIBRATION ID		VDS
			PREVIOUS	NEW	
2014	Corolla ECO	2ZR-FAE	302Y6000	<u>302Y6100</u>	BPRHE

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 9.00.025 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming. Please 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*	<u>00002-MCGR8</u>	1

NOTE

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

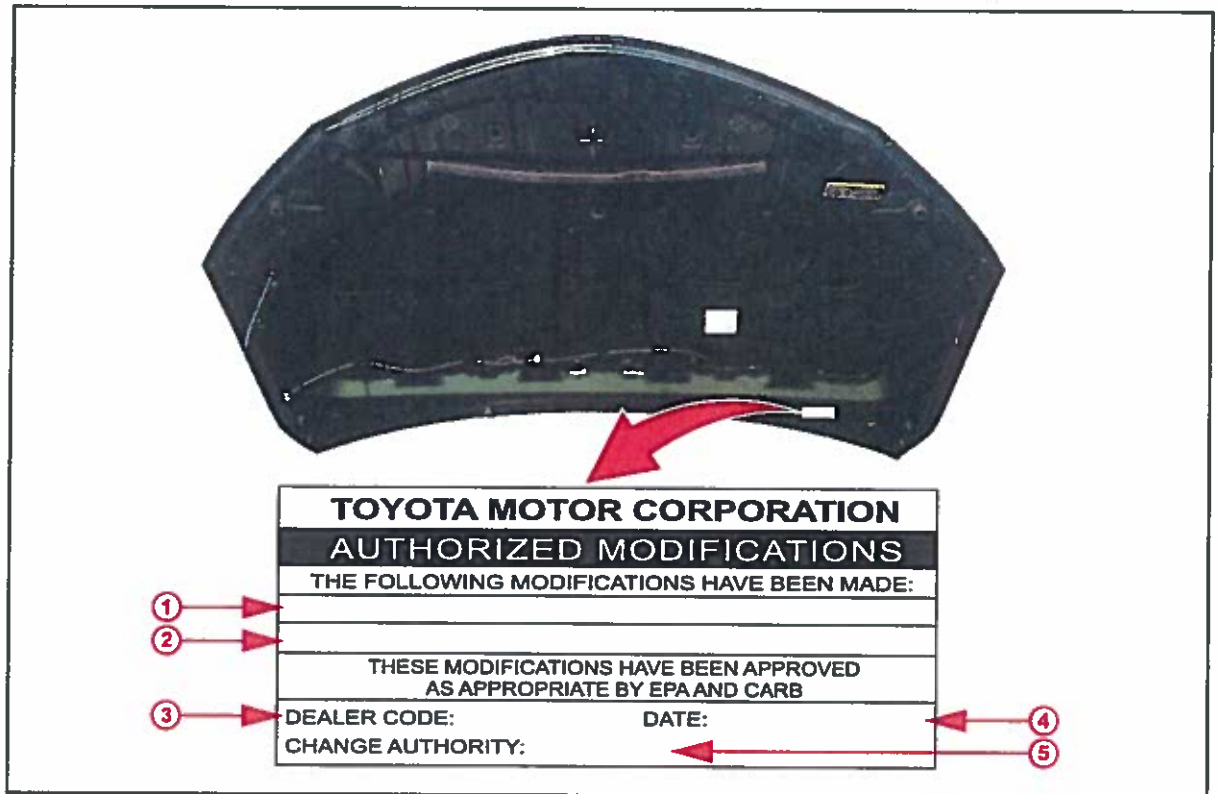
* Essential SST.

MIL "ON" DTC P2646 and/or P265B

Repair Procedure

1. Using Techstream, check for stored DTCs. If DTC P2646 and/or P265B is present, proceed to step 2. If these DTCs are not present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.
2. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 3.

Figure 1. Location of Authorized Modifications Label on 2014 Corolla



1	Replacement ECM (PCM) Part Number (i.e., 89661-0ZD31)
2	New Calibration ID(s) (i.e., 302Y6100)
3	Dealer Code

4	Date Completed
5	This SB Number

MIL "ON" DTC P2646 and/or P265B

Repair Procedure (Continued)

3. Flash reprogram the ECM (PCM).

NOTE

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5 volts 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 No. [T-SB-0012-13](#), "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

4. Install the Authorized Modifications Label.

A. Using a permanent marker, enter the following information on the label:

- ECM 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. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

5. Start the engine and warm it up to normal operating temperature and test drive to confirm proper vehicle operation.