

MIL "ON" DTC P0A0F, P3190, P3191, P0171 Due to Purge VSV Vacuum Line Separation

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012 – 2013	Prius V	
2010 – 2013	Prius	

SUPERSESION NOTICE

The information contained in this bulletin supersedes SB No. T-SB-0205-11.

- Applicability has been updated to include 2012 – 2013 model year Prius and Prius V vehicles.

Service Bulletin No. T-SB-0205-11 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this bulletin before proceeding.

Introduction

Some 2010 – 2013 model year Prius and 2012 – 2013 model year Prius V vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code(s) (DTCs) P0A0F (Engine Failed to Start), caused by Purge VSV/PCV line separation from the throttle body housing. One or more of the following DTCs may also set:

- P3190 (Poor Engine Power)
- P3191 (Engine Does NOT Start)
- P0171 (System Too Lean [Bank One])

Replace the Purge VSV (Vacuum Switching Valve Assembly) and reprogram the Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) with the latest calibration to address this condition.

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Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT		PRODUCTION CHANGE EFFECTIVE VIN
Prius	Tsutsumi	Line 1	JTDKN3DU#D0348509
		Line 2	JTDKN3DU#D1669248
	Toyota Auto Body		JTDKN3DU#D5620883
Prius V	Tsutsumi		JTDZN3EU#D3278998

Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	MODEL YEAR	OFF	T1	T2
EG1300	Replace Purge VSV and Reprogram ECM (PCM) Engine	0.8	Prius	2010	89660-47300 89660-47301 89660-47302	8C	74
				2011	89660-47430 89660-47431		
				2012 – 2013	89660-47510		
			Prius V	2012 – 2013	89660-47400 89660-47401		

APPLICABLE WARRANTY

- For California specification Prius vehicles sold, registered, and operated in the following states:
 - California, Connecticut, Maine, Massachusetts, New Jersey, New York, Oregon, Rhode Island, or Vermont: starting with 2010 MY.
 - New Mexico: 2010 – 2011 MY only.
 - Maryland: starting with 2011 MY.
 - Arizona: 2012 MY only.

This repair is covered under the California Emission Warranty. This warranty is in effect for 180 months or 150,000 miles, whichever occurs first, from the vehicle's in-service date.

- For Prius vehicles sold, registered, and operated in states other than those listed above, and for Prius V vehicles, 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.

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Calibration Information

MODEL	MODEL YEAR	ENGINE	CALIBRATION ID		VDS
			PREVIOUS	NEW	
Prius	2010	2ZR-FXE	34715000 34715100 34715200 34715300	34715400	KN3DU
	2011		34728000 34728100	34728200	
	2012 – 2013		34734000	34734100	
Prius V	2012 – 2013		34725000 34725100	34725200	ZN3EU

Parts Information

MODEL	MODEL YEAR	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
Prius	2010	89660-47300 89660-47301 89660-47302	89660-47303	Computer, Engine Control (ECM/PCM)	–
	2011	89660-47430 89660-47431	89660-47432		–
	2012 – 2013	89660-47510	89660-47511		–
Prius V	2012 – 2013	89660-47400 89660-47401	89660-47402		–
ALL	ALL	25860-37020		Valve Assy, Vacuum Switching	1
		00451-00001-LBL		Authorized Modification Labels	1

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*.

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 10.00.029 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*	00002-MCGR8	1

NOTE

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

* Essential SST.

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Repair Procedure

1. Inspect for proper installation of the PCV hose and Purge VSV vacuum line at the throttle body. Ensure the vacuum line is secured at the Purge VSV.

If all lines are properly seated, this bulletin does NOT apply. Follow normal diagnostic procedures per the Repair Manual.

Reinstall and secure any unseated lines, replace the Purge VSV, then proceed to step 2.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

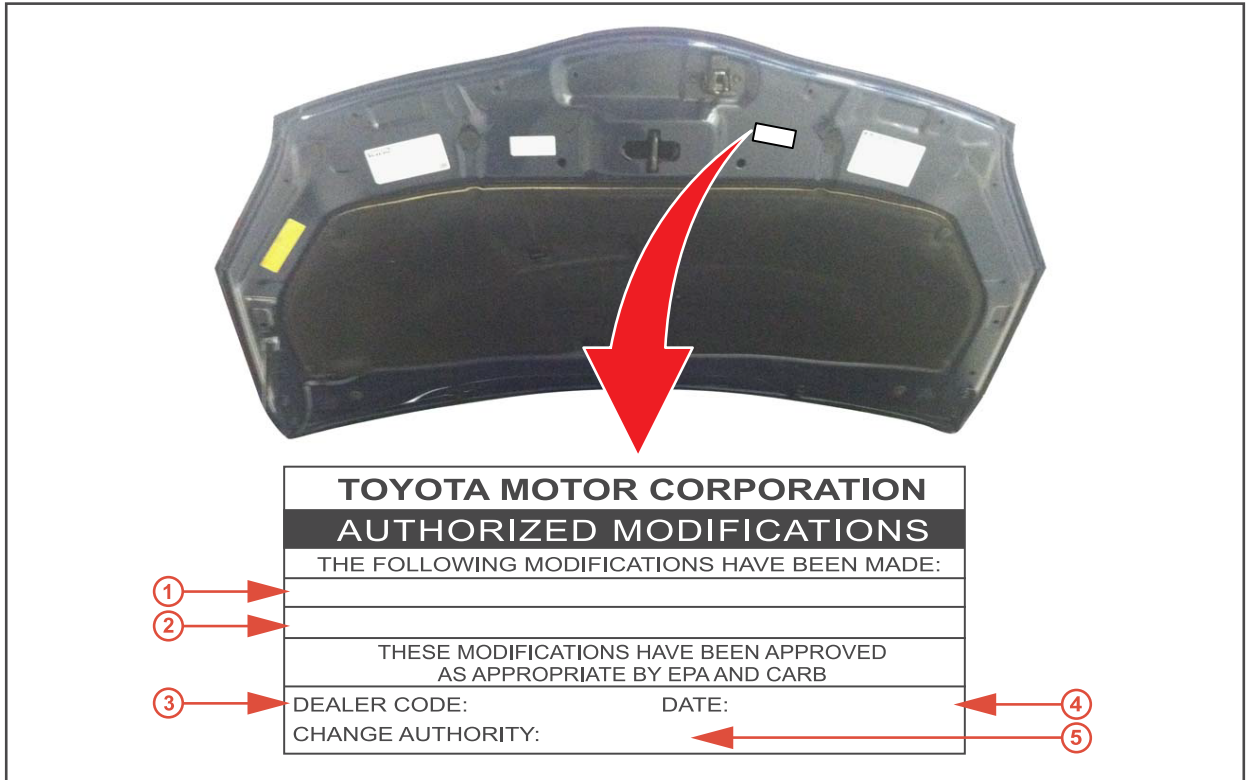
- 2010 Prius:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”
- 2011 Prius:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”
- 2012 Prius:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”
- 2013 Prius:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”
- 2012 Prius V:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”
- 2013 Prius V:
Engine/Hybrid System – Emission Control – “2ZR-FXE Emission Control: Purge Valve: [Removal](#) / [Installation](#)”

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Repair Procedure (Continued)

2. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1 or 2. 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 2010 – 2013 Prius



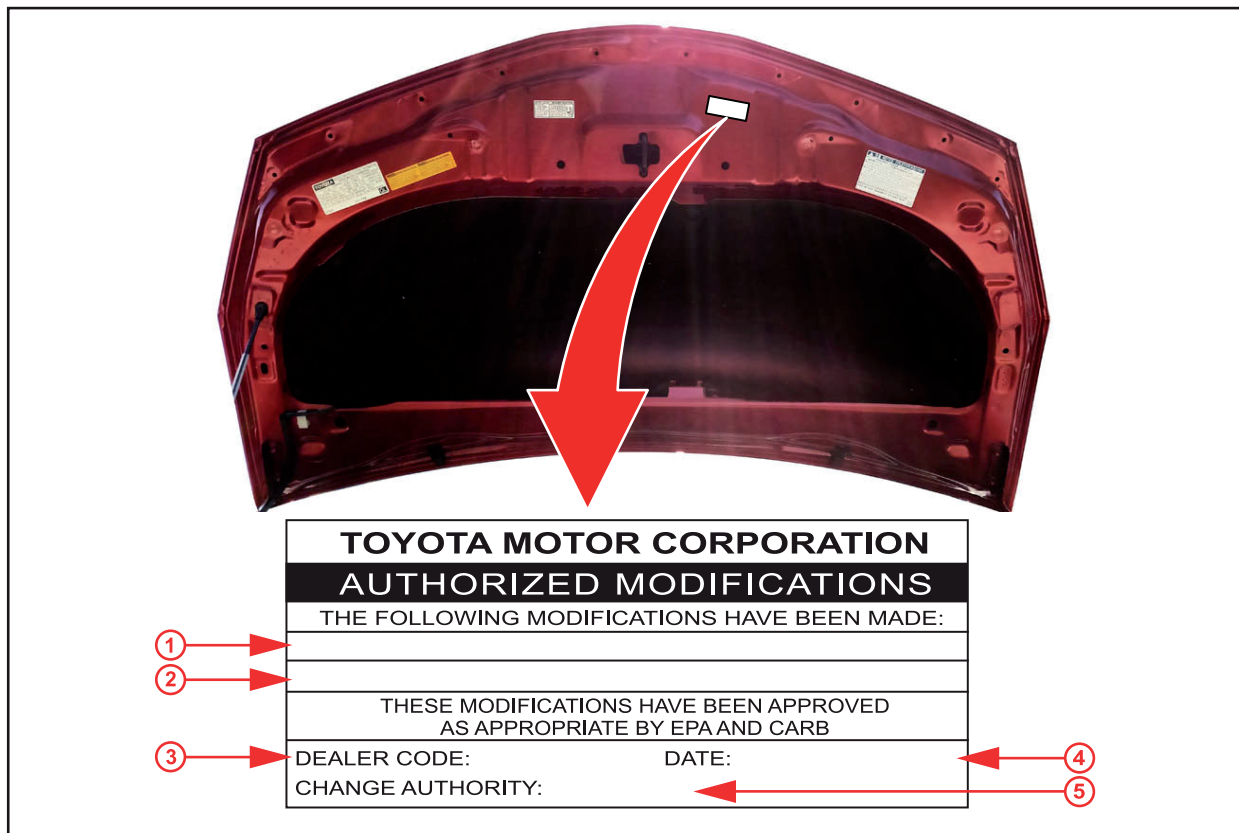
1	Replacement ECM (PCM) Part Number (i.e., 89660-47303)
2	New Calibration ID(s) (i.e., 34715400)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

Figure 2. Location of Authorized Modifications Label on 2012 – 2013 Prius V



1	Replacement ECM (PCM) Part Number (i.e., 89660-47403)
2	New Calibration ID(s) (i.e., 34725200)
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 13.5 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.

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Repair Procedure (Continued)

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 or 2. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test drive the vehicle to confirm proper vehicle operation.