

T-SB-0205-11 Rev2 December 23, 2011

# MIL "ON" DTC P3190, P3191 and/or P0A0F

Service Category Engine/Hybrid System

Section Engine Control

Market USA



## Applicability

| YEAR(S)     | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------|------------------------|
| 2010 – 2011 | Prius    |                        |

**REVISION NOTICE**

**January 31, 2013 Rev2:**

- Replacement of Purge VSV has been added to the bulletin.

**May 10, 2012 Rev1:**

- Introduction and Repair Procedure sections have been updated.

Any previous printed versions of this bulletin should be discarded.

## Introduction

Some 2010 – 2011 model year Prius vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code(s) (DTCs) P3190 (Poor Engine Power), P3191 (Engine Does Not Start), P0A0F (Engine Failed to Start), and/or purge VSV/PCV line separation from the throttle body housing. Replace the Purge VSV and reprogram the Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) with the latest calibration.

## Warranty Information

| OP CODE | DESCRIPTION                                      | TIME | MODEL YEAR | OFF                        | T1 | T2 |
|---------|--|------|------------|----------------------------|----|----|
| EG1300  | Replace Purge VSV and Reprogram ECM (PCM) Engine | 0.8  | 2010       | 89660-47300<br>89660-47301 | 87 | 99 |
|         |  |      | 2011       | 89660-47430                |    |    |

**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.

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Calibration Information

| MODEL YEAR | PREVIOUS CALIBRATION ID | NEW CALIBRATION ID | VDS   |
|------------|-------------------------|--------------------|-------|
| 2010       | 34715000                | <u>34715300</u>    | KN3DU |
|            | 34715100                |                    |       |
|            | 34715200                |                    |       |
| 2011       | 34728000                | <u>34728100</u>    |       |

Parts Information

| MODEL YEAR | PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME                          | QTY |
|------------|----------------------|---------------------|------------------------------------|-----|
| 2010       | 89660-47300          | 89660-47302         | Computer, Engine Control (ECM/PCM) | -   |
|            | 89660-47301          |                     |                                    | -   |
| 2011       | 89660-47430          | 89660-47431         |                                    | -   |
| -          | 25860-37020          | Same                | Valve Assy, Vacuum Switching       | 1   |
| -          | 00451-00001-LBL      | Same                | 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.

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 8.00.034 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](http://techinfo.toyota.com) for more information regarding J2534 reprogramming.



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**Required Tools & Equipment (Continued)**

| 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.

**Repair Procedure**

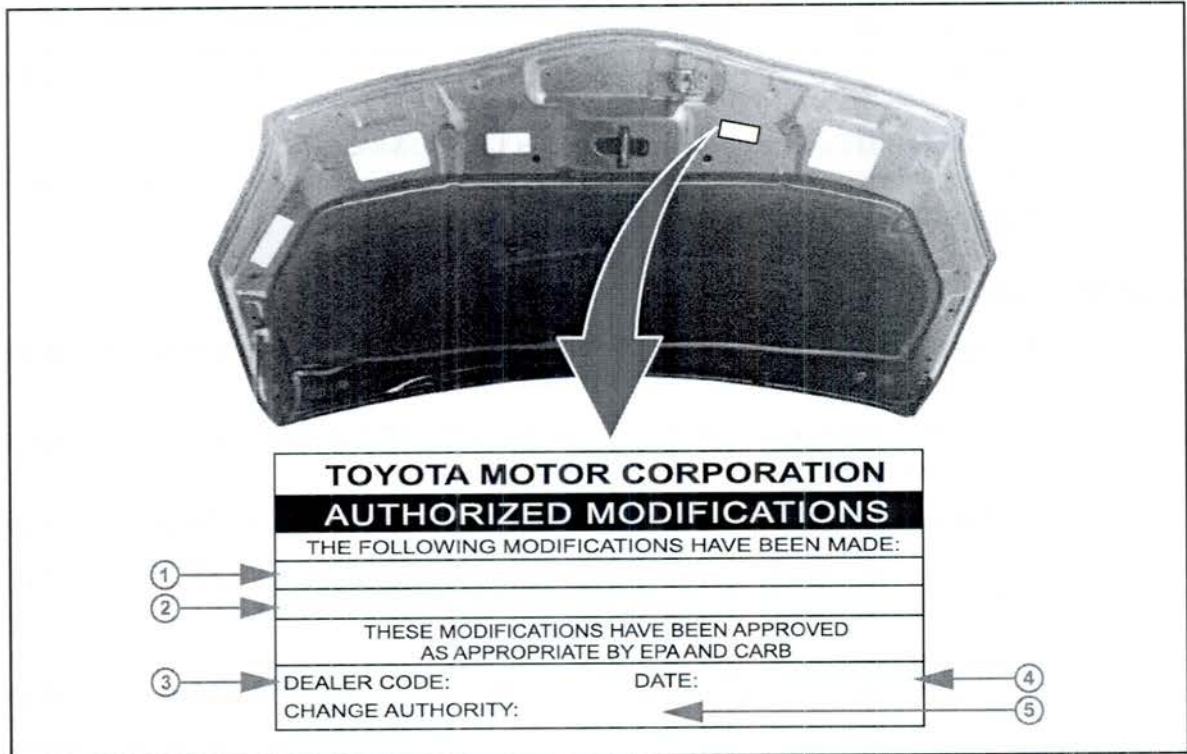
1. Inspect for proper installation of the PCV hose and Purge VSV vacuum line at the throttle body. Ensure the vacuum line is secured at the Purge VSV.  
  
 If all lines are properly seated, this bulletin does NOT apply. Follow normal diagnostic procedures per the Repair Manual.  
  
 Reinstall and secure 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”*
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.



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Repair Procedure (Continued)

Figure 1. Location of Authorized Modifications Label on 2010 and 2011 Prius



|   |   |
|---|---|
| 1 | Replacement ECM (PCM) Part Number (i.e., 89660-47302) |
| 2 | New Calibration ID(s) (i.e., 34715300)                |
| 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 **CURRENT PART NUMBER***]
    - Calibration ID(s) [*Refer to the **Calibration Identification Chart** for the **NEW CALIBRATION ID***]
    - Dealer Code
    - Repair Date
    - Change Authority [***This SB 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. Test drive the vehicle to confirm proper vehicle operation.