

Service

Category Engine/Hybrid System

Section Emission Control Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010, 2012	Prius PHV	
2012	Prius V	
2010 - 2012	Prius	

SUPERSESSION NOTICE

The information contained in this bulletin supersedes SB No. T-SB-0075-13.

· The entire bulletin has been updated.

Service Bulletin No. T-SB-0075-13 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this bulletin before proceeding.

Introduction

Some Prius, Prius V and Prius PHV vehicles may exhibit a vibration due to rough idle and/or tapping noise from the HV transaxle at cold start. The Check Engine Light may also illuminate with (DTC) P0401 (Exhaust Gas Recirculation Flow Insufficient Detected). Due to excess carbon build up at the valve assembly, the valve will stick causing the engine RPM to fluctuate. Follow the procedures in this bulletin to address this condition.

Production Change Information

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

MODEL	Engine	PRODUCTION CHANGE EFFECTIVE VIN
Prius		JTDKN3DU#C5491168
Prius V	2ZR-FXE	JTDZN3EU#C3159675
Prius PHV		JTDKN3DP#C3023590

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MIL "ON" DTC P0401 and/or Rattle After Cold Soak

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1601	Reprogram Engine ECU R & R Exhaust Recirculation Valve Modify Wire Harness	2.4	25620-37120	8A	54

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification Prius and Prius PHV vehicles sold, registered, and operated in Arizona ('12 MY only), California, Connecticut, Maine, Maryland (starting with '11 MY), Massachusetts, New Jersey, New Mexico ('10-'11 MY only), New York, Oregon, Rhode Island, and Vermont, the Exhaust Recirculation Valve 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 California specification Prius and Prius PHV vehicles sold, registered, and operated in Delaware, Pennsylvania and Washington, the Exhaust Recirculation Valve is covered under the California Emission Control Warranty which is in effect for 84 months or 70,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification Prius V vehicles sold, registered, and operated in Arizona ('12 MY only), California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington, the Exhaust Recirculation Valve is covered under the California Emission Warranty. This warranty is in effect for 84 months or 70,000 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
04004-58137	Kit, EGR Valve (Valve Assy, EGR) (Gasket, EGR Inlet) (Gasket, EGR Pipe) (Gasket, EGR Valve)	1
25685-37010	Gasket No. 1, EGR Cooler	1
00451-00001-LBL	Authorized Modifications Label	1



Parts Information (Continued)

MODEL	MODEL YEAR	ECU PART NUMBER		PART NAME	QTY
WODEL	WODEL TEAR	PREVIOUS	NEW	FART NAME	QII
	2010	89660-47300 89660-47301 89660-47302 89660-47303 89660-47304 89660-47305	89660-47306		
Prius	2011	89660-47430 89660-47431 89660-47432 89660-47433 89660-47434	89660-47435	Computer, Engine	
	2012	89660-47510 89660-47511 89660-47512 89660-47513	89660-47514	Control	
Prius V	2012	89660-47400 89660-47401 89660-47402 89660-47403 89660-47404	89660-47405		
Prius PHV	2012	89660-47590 89660-47591	89660-47592		

NOTE

The ECM (PCM) should NOT be replaced as part of the repair procedure.



Required Tools & Equipment

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

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 11.00.017 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 <u>techinfo.toyota.com</u> 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.



Calibration Information

MODEL	MODEL YEAR	ECU CALIBRATION IDs	
MODEL	MODEL YEAR	PREVIOUS	NEW
		34715000	
		34715100	
		34715200	
	2010	34715300	<u>34715700</u>
		34715400	
		34715500	
		34715600	
Prius		34728000	
Filus	2011	34728100	
		34728200	<u>34728500</u>
		34728300	
		37428400	
		34734000	
	2012	34734100	<u>34734400</u>
	2012	34734200	<u>34734400</u>
		34734300	
		34725000	
		34725100	
Prius V		34725200	<u>34725500</u>
	2012	34725300	
		34725400	
Prius PHV] [34740000	34740200
FIIUS FIIV		34740100	<u>34740200</u>



Repair Procedure

- 1. Use Techstream to check for DTCs P0401 and confirm cold start misfire or rattle condition is present as described in the introduction. If DTC's or Condition are NOT present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.
- Remove and replace the Exhaust Gas Recirculation (EGR) Valve with the updated part.
 Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:
 - 2010 / 2011 / 2012 Prius:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Removal"

• 2012 Prius V:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Removal"

• 2010 / 2012 Prius PHV:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Removal"

2010 / 2011 / 2012 Prius:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Installation"

• 2012 Prius V:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Installation"

• 2010 / 2012 Prius PHV:

Engine/Hybrid System – Emission Control – "2ZR-FXE Emission Control: EGR Valve: Installation"

- 3. Modify the wire harness using the following procedure.
 - A. Remove the vinyl tape wrapped around the main harnesses and EGR harness.

Figure 1.



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Repair Procedure (Continued)

B. Locate exposed zip tie.

Figure 2.



C. Wrap the exposed zip tie 7 – 8 times with heat resistant vinyl tape.

Figure 3.



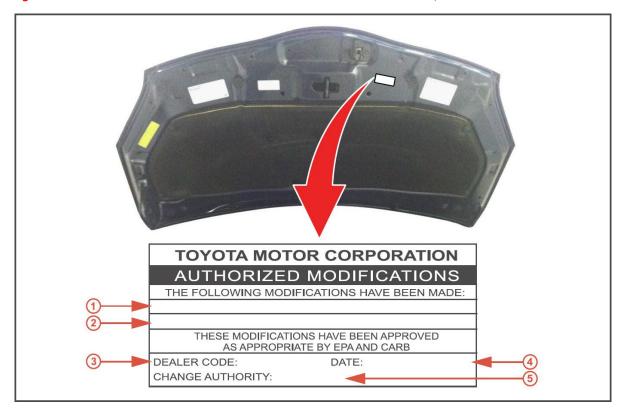
D. Connect the EGR harness to the NEW EGR valve.



Repair Procedure (Continued)

4. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 4 below. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 5. If the calibration ID is the latest, go to step 7.

Figure 4. Location of Authorized Modifications Label for 2010 - 2012 Prius and 2010, 2012 Prius PHV



1	Replacement ECM (PCM) Part Number (i.e., 89681-76011)
2	New Calibration ID (i.e., 37601300)
3	Dealer Code

4	Date Completed
5	This SB Number

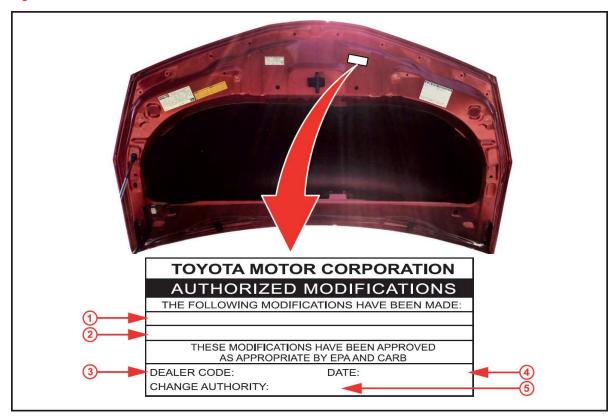
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MIL "ON" DTC P0401 and/or Rattle After Cold Soak

Repair Procedure (Continued)

Figure 5. Location of Authorized Modifications Label for 2012 Prius V



1	Replacement ECM (PCM) Part Number (i.e., 89681-76011)
2	New Calibration ID (i.e., 37601300)
3	Dealer Code

4	Date Completed
5	This SB Number

5. 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. <u>T-SB-0012-13</u> "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

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MIL "ON" DTC P0401 and/or Rattle After Cold Soak

Repair Procedure (Continued)

- 6. 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**]
 - Dealer Code
 - Repair Date
 - Change Authority [This bulletin number]
 - B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figures 4 and 5. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
- 7. Confirm the repair.