

MIL "ON" Code P0456

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010	Prius	
2011	Sienna	Engine(s): 2GR VDS(s): DK3DC, JK3DC, KK3DC, MK3DC, XK3DC, YK3DC, ZK3DC

TSB REVISION NOTICE

February 2, 2011 Rev1:

- Production Change Information and Warranty Information sections have been updated.

Any previous printed versions of this service bulletin should be discarded.

Introduction

Some 2010 model year Prius and 2011 Sienna vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0456 stored in the Engine Control Module or ECM (SAE term: Powertrain Control Module/PCM). Use the following repair procedure to address this condition.

Production Change Information

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

MODEL	DRIVETRAIN	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Sienna	2WD	TMMI	5TD#K3DC#BS012079
	AWD		5TD#K3DC#BS002457
Prius	2WD	Tsutsumi Line 1	JTDKN3DU#A0116183
		Tsutsumi Line 2	JTDKN3DU#A1148349
		Toyota Auto Body	JTDKN3DU#A5112163

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Parts Information

MODEL	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
Sienna	77740-08070	Same	Canister, Charcoal	1
Prius	77740-47060	Same		

Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	OFF	T1	T2
237811	R & R Charcoal Canister	0.4	Sienna	77740-08070	8A	99
			Prius	77740-47060		

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- **2010 Prius:**
For California specification 2010 Prius vehicles sold, registered, and operated in California, Connecticut, Maine, Massachusetts, New Jersey, New Mexico, New York, Oregon, Rhode Island, and Vermont, the charcoal canister is covered under the California Emission Warranty, which is 180 months or 150,000 miles, whichever occurs first, from the vehicle's in-service date.

For California specification 2010 Prius vehicles sold, registered, and operated in Pennsylvania and Washington, the charcoal canister is covered under the California Emission Warranty, which is 36 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.
- **2011 Sienna:**
For California specification 2011 Sienna vehicles sold, registered, and operated in California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New Mexico, Oregon, Pennsylvania, Rhode Island, Vermont, and Washington, the charcoal canister is covered under the California Emission Warranty, which is 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.

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite NOTE: Software version 5.10.029 or later is required.	ADE	TSPKG1 or TSLITEDLR01	1

* Essential SST.

NOTE

Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Using TIS Techstream, clear any stored DTCs.
2. Using TIS Techstream, perform the EVAP System Check to confirm DTC P0456 – Evaporative Emission Control System Leak Detected (Very Small Leak), is pending.
3. Refer to the Technical Information System (TIS), applicable model Repair Manual:
 - [2011](#) Sienna:
2GR-FE Engine Control: SFI System: Data List / Active Test
 - [2010](#) Prius:
2ZR-FXE Engine Control: SFI System: Data List / Active Test

NOTE

If DTC P0456 does not return, this TSB does NOT apply.

4. If P0456 is present confirm the charcoal canister pump electrical connector is fully seated and verify NO EVAP leaks are present.
5. If no EVAP leaks are found replace the charcoal canister assembly. Refer to TIS, applicable model Repair Manual:
 - 2011 Sienna:
2GR-FE Emission Control: Canister: [Removal](#) / [Installation](#)
 - 2010 Prius:
2ZR-FXE Emission Control: Canister: [Removal](#) / [Installation](#)
6. After the repair is complete, clear any DTCs, and perform the EVAP System Check again to confirm normal system operation and there are NO pending DTCs.