

M.I.L. "ON" DTC P043E, P043F, P2401, P2402, and P2419

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2006 – 2009	RAV4	

Introduction

Some 2006 – 2009 model year RAV4 vehicles may exhibit M.I.L. "ON" DTCs caused by water or debris entry into the evaporative control system. The evaporative control system has been updated to address this concern. Use the repair procedure below to address customer concerns.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG9008	R & R Charcoal Canister & Charcoal Canister Filter, and Fuel Tank Protector Installation	0.6	77740-##0#0	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal Emissions 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 2006 RAV4 (2AZ-FE engine) vehicles sold, registered, and operated in California, Maine, Massachusetts and Vermont, this repair 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.
- For California specification 2006 RAV4 (2GR-FE engine) and 2007-2009 RAV4 vehicles sold, registered, and operated in California, Connecticut (starting with 08MY), Maine, Massachusetts, New Jersey (starting with 09MY), Oregon (starting with 09MY), Pennsylvania (starting with 08MY), Rhode Island (starting with 08MY), Vermont and Washington (starting with 09MY), this repair is covered under the California Long-Term 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 correction of a problem based upon a customer's specific complaint.

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Production Change Information

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

MODEL YEAR	MODEL	PLANT	DRIVETRAIN	ENGINE	PRODUCTION CHANGE EFFECTIVE VIN
2009	RAV4	Tahara	2WD	2GR-FE	JTMZK3#V*95025180
				2AR-FE	JTMZF3#V*95006234
			4WD	2GR-FE	JTMBK3#V*95077520
				2AR-FE	JTMBF3#V*95006992
		Shokki	2WD	2GR-FE	JTMZK3#V*9D001495
				2AR-FE	JTMZF3#V*9D008346
			4WD	2GR-FE	JTMBK3#V*9D005425
				2AR-FE	JTMBF3#V*9D010420
		TMMC	2WD	2GR-FE	2T3ZK3#V*9W001845
				2AR-FE	2T3ZF3#V*9W003603
			4WD	2GR-FE	2T3BK3#V*9W002655
				2AR-FE	2T3BF3#V*9W004195

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
77740-42090	Same	*Canister Assy, Charcoal	1
77740-0R010	Same		
77706-42010 77706-0R010	77706-0R011	Filter Sub-Assy, Charcoal Canister	1
N/A	77641-0R020	Protector, Fuel Tank	1
N/A	90467-07201	Clip	1

* Both charcoal canister part numbers are interchangeable (Japan / North American production)

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS techstream* NOTE: Software version 4.00.017 or later is required.	ADE	TSPKG1	1

* Essential SST.

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Required Tools & Equipment (Continued)

NOTE

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

Repair Procedure

1. Using TIS techstream, check for Diagnostic Trouble Codes (DTCs). If DTCs P043E, P043F, P2401, P2402, and P2419 are ALL present, refer to the Technical Information System (TIS), applicable model year RAV4 Repair Manual:

[2006](#) / [2007](#) / [2008](#) RAV4:

Engine/Hybrid System – Engine Control – “2AZ-FE Engine Control System: SFI System: P043E: Evaporative Emission System Reference Orifice Clog Up”

[2006](#) / [2007](#) / [2008](#) / [2009](#) RAV4:

Engine/Hybrid System – Engine Control – “2GR-FE Engine Control System: SFI System: P043E: Evaporative Emission System Reference Orifice Clog Up”

2. Replace the charcoal canister and charcoal canister filter if any water or debris is noted within the EVAP system.
3. Remove and discard the No. 2 fuel tank protector.

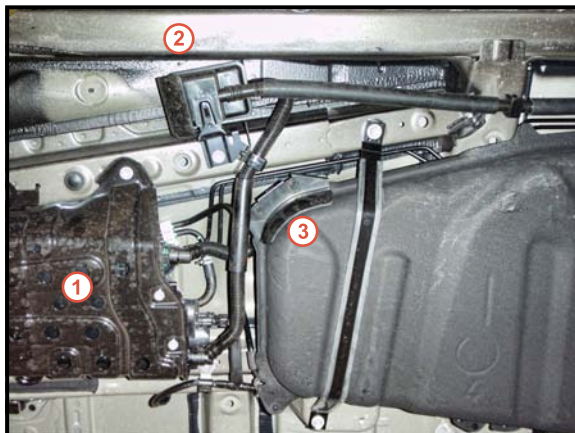
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Repair Procedure (Continued)

4. Install the fuel tank protector.

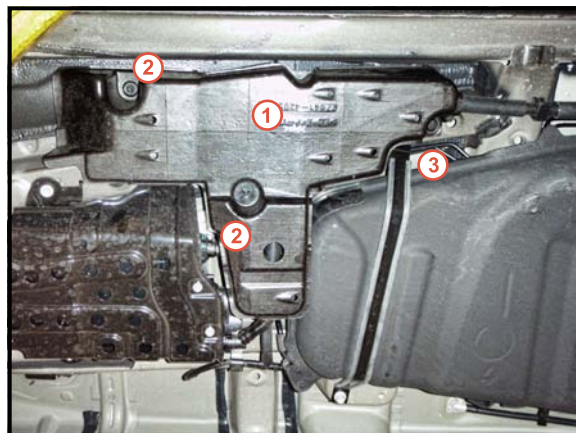
Use the following illustrations as reference for parts replacement and installation:

Figure 1.



1	Charcoal Canister Assembly
2	Charcoal Canister Filter Sub-Assembly
3	No. 2 Fuel Tank Protector

Figure 2.



1	Fuel Tank Protector
2	Clips (Included on Fuel Tank Protector)
3	Clip (Part Number 90467-07201)

5. Clear DTCs
6. Perform the Automatic EVAP System Check and verify that NO pending DTCs set.

System Select > Engine and ECT > Utility > EVAP System Check

NOTE

If Automatic EVAP System Check fails to run, perform the following:

- Turn the ignition key OFF.
- Turn TIS techstream OFF.
- Turn the ignition key ON and TIS techstream ON and restart Automatic EVAP System Check.