MIL "ON" P043E, P043F, P2401, P2402, & P2419 Due to Water Intrusion into Charcoal Canister

Service Category Engine/Hybrid System

Section Emission Control **Market** USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2011	Yaris	Body Type(s): 4Dr. Sedan

Introduction

Some 2007-2011 model year Yaris sedan vehicles may experience a MIL “ON” condition with DTCs P043E, P043F, P2401, P2402 and P2419 present. This can be caused by water or debris entry into the evaporative control system through the fresh air inlet. To address this condition, a fuel pipe protector has been created to help prevent water intrusion into the fuel filler pipe cover.

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
77248-21010	77248-52060	Fuel Tank Filler Pipe Cover Holder*	1
77219-21010	Same	Fuel Tank Filler Pipe Cover*	1
77277-52031	77277-52080	Fuel Tank Filler Pipe Protector	1
77740-52090	Same	Canister Assy, Charcoal	1
77706-52020	Same	Charcoal Canister Filter No2	1

*Applies to certain 2007 MY Yaris vehicles ONLY - see step 5 of the Repair Procedure.

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite NOTE: Software version 6.20.020 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.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG9047	R & R Fuel Tank Filler Pipe Cover Holder, Cover, Protector, Charcoal Canister & Filter	0.5	77277-52031	8A	88

APPLICABLE WARRANTY

- **This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 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.**

Repair Procedure

1. Using TIS Techstream, check for DTCs P043E, P043F, P2401, P2402, and P2419.
   A. If the above DTCs are present, proceed to step 2.
   B. If all 5 DTCs are NOT present, this TSB does NOT apply, continue diagnostics per the Repair Manual.
2. Check for water or debris in the EVAP system by disconnecting the vent hose from the canister pump module.

   Is water or debris present in the vent hose?
   A. **YES** – Proceed to step 3.
   B. **NO** – This TSB does NOT apply, continue diagnostics per the Repair Manual.
3. Replace the charcoal canister and charcoal canister filter No. 2 as outlined in the Repair Manual.
   - 2007 / 2008 / 2009 / 2010 / 2011 Yaris:
     Engine/Hybrid System – Emission Control – "Canister: Removal"
   - 2007 / 2008 / 2009 / 2010 / 2011 Yaris:
     Engine/Hybrid System – Emission Control – "Canister: Installation"
4. Remove fuel tank filler pipe protector and retain fasteners.

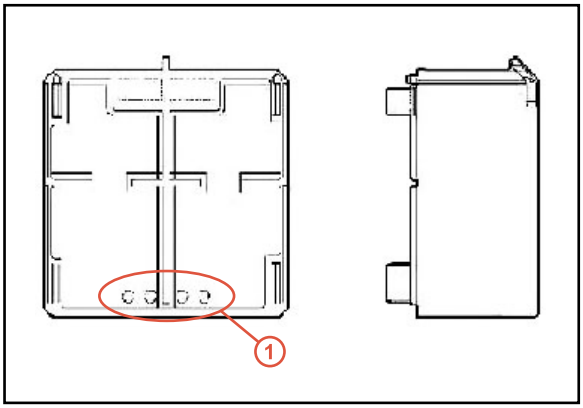
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Repair Procedure (Continued)

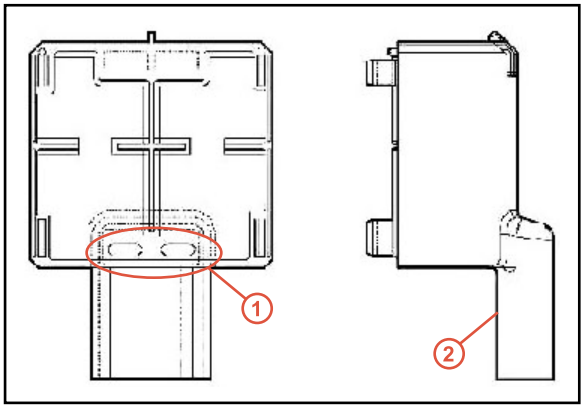
5. For 2007 Yaris, follow this procedure, all other model years proceed to step 7. Inspect the fuel tank filler pipe cover holder for the presence of the drain hole shield that is included with the updated fuel tank filler pipe cover holder as shown in Figures 1 and 2 below.

Figure 1. Fuel Tank Filler Pipe Cover: PREVIOUS Design



1	4 Holes

Figure 2. Fuel Tank Filler Pipe Cover: CURRENT Design

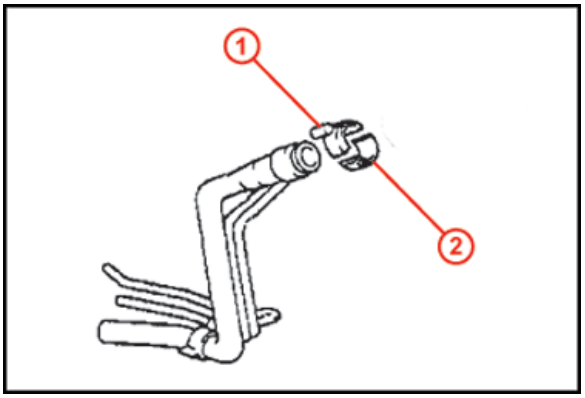


1	2 Holes
2	Drain Hole Shield

6. If drain hole shield is present, proceed to step 7.

   If drain hole shield is NOT present, replace the fuel tank filler pipe cover and cover holder with the updated parts.

Figure 3.



1	Fuel Tank Filler Pipe Cover
2	Fuel Tank Filler Pipe Cover Holder

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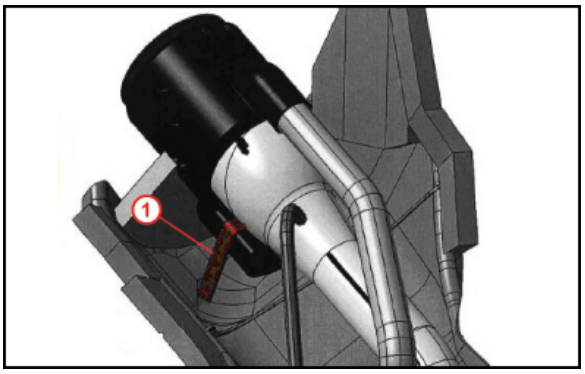
Repair Procedure (Continued)

7. Replace fuel tank filler pipe protector with updated part. Slide the supplied plastic tie over the fuel tank filler pipe cover holder then reinstall original fasteners.

NOTE

Do NOT adjust the length or tension of zip tie.

Figure 4.



1	Zip Tie

8. Clear all DTCs using TIS Techstream.
9. Perform the Automatic EVAP System Check and verify that no pending DTCs set.
   System > Engine and ECT > Utility > EVAP System Check

NOTE

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

- **Turn the ignition OFF.**
- **Turn TIS Techstream OFF.**
- **Turn the ignition ON and TIS Techstream ON and restart the Automatic EVAP System Check.**

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