TOYOTA
Technical Service Bulletin

MIL ON With DTC P145011 in Cold Weather

Service Category Engine/Hybrid System

Section Emission Control **Market** USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2025 - 2026	Crown, Crown Signia, RAV4 HV, Sienna HV	

Introduction

Some 2025 – 2026 model year Crown, Crown Signia, RAV4 Hybrid, and Sienna Hybrid vehicles with an A25A engine may experience a MIL ON with Diagnostic Trouble Code (DTC) P145011 (Fuel Tank Pressure Sensor Circuit Short to Ground). This condition is more prevalent when the ambient temperature is 15°F or lower.

To correct this condition, an improvement was made to the Fuel Tank Vent Valve. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG2609	Replace Close Tank Valve Assembly	0.5	90910-15089 90910-15087 77070-48011	8A	83

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.**
- **Warranty application is limited to occurrence of the specified condition described in this bulletin.**

Parts Information

PART NUMBER	PART NAME	QTY
90910-15089	Valve Assy, Close Tank	1
90910-15087		
77070-48011		

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi* w/ Grey Case VIM**	ADE	TS2UNIT	1
Techstream Lite w/ Blue & Black Case w/ Detachable Cable**			

*Essential SST.

**MFC3 VIM is required for communication with some models.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2026.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

Repair Procedure

1. Confirm the condition exists.
   Does the vehicle have MIL ON with DTC P145011
   - **YES —** Continue to step 2.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Check Freeze Frame data and confirm DTC set with ambient temperature of 15°F or lower.
   Does the DTC set when the ambient temperature is 15°F or lower?
   - **YES —** Continue to step 3.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

3. Follow DTC diagnostic instruction for P145011. Prior to replacing any parts, confirm step 4.
   - 2025 – 2026 Crown:
     Engine / Hybrid System – A25A-FXS (Engine Control) – SFI System – P145011; Fuel Tank Pressure Sensor Circuit Short to Ground
   - 2025 – 2026 Crown Signia:
     Engine / Hybrid System – A25A-FXS (Engine Control) – SFI System – P145011; Fuel Tank Pressure Sensor Circuit Short to Ground
   - 2025 / 2026 RAV4 HV:
     Engine / Hybrid System – A25A-FXS (Engine Control) – SFI System – P145011; Fuel Tank Pressure Sensor Circuit Short to Ground
   - 2025 – 2026 Sienna HV:
     Engine / Hybrid System – A25A-FXS (Engine Control) – SFI System (w/o Grille Shutter)– P145011; Fuel Tank Pressure Sensor Circuit Short to Ground

4. Do all components and wiring checks meet specification?
   - **YES —** Continue to step 5.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

5. If all component and wiring checks are within spec, AND P145011 was set in ambient temperature of 15°F or lower, replace fuel tank vent valve (closed tank valve assembly).
   Refer to TIS, applicable model and model year Repair Manual:
   - 2025 – 2026 Crown:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Removal
   - 2025 – 2026 Crown Signia:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Removal
   - 2025 / 2026 RAV4 HV:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve (w/ Canister Pump Module) – Removal
   - 2025 – 2026 Sienna HV:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Removal

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Repair Procedure (continued)

6. Install the NEW fuel tank vent valve.
   Refer to TIS, applicable model and model year Repair Manual:
   - 2025 – 2026 Crown:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Installation
   - 2025 – 2026 Crown Signia:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Installation
   - 2025 / 2026 RAV4 HV:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve (w/ Canister Pump Module) – Installation
   - 2025 – 2026 Sienna HV:
     Engine / Hybrid System – A25A-FXS (Emission Control) – Fuel Vapor Containment Valve – Installation

7. Using GTS+, clear ANY DTCs and confirm P145011 does not return after key cycle.

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