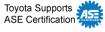


MIL ON With DTCs P24517F and/or P14502A

Service

Category Engine/Hybrid System

Section Fuel System Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2020 - 2023	Highlander HV		
2021 - 2023	RAV4 HV, RAV4 Prime, Sienna HV, Venza HV		

Introduction

Some 2020 – 2023 model year Highlander Hybrid and 2021 – 2023 model year RAV4 Hybrid, RAV4 Prime, Sienna Hybrid, and Venza Hybrid vehicles may exhibit a MIL ON condition with one or both of the following Diagnostic Trouble Codes (DTCs) present:

- P24517F Evaporative Emission System Switching Valve Actuator Stuck Off.
- P14502A Fuel Tank Pressure Sensor Signal Stuck in Range.

Follow the repair procedure 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	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
	ТММІ	2WD	5TDZRKEC#PS151019
			5TDERKEC#PS151019
			5TDGRKEC#PS151019
Sienna HV			5TDDRKEC#PS151019
			5TDCRKEC#PS151019
			5TDXRKEC#PS151019
			5TDYRKEC#PS151019
			5TDJRKEC#PS151019
		5TDKRKEC#PS151019	
			5TDBRKEC#PS151019

TOYOTA T-SB-0033-23 June 8, 2023 Page 2 of 6

MIL ON With DTCs P24517F and/or P14502A

Production Change Information (continued)

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN		
		AWD	5TDZSKFC#PS083228		
			5TDGSKFC#PS083228		
			5TDESKFC#PS083228		
			5TDXSKFC#PS083228		
			5TDCSKFC#PS083228		
Sienna HV	TMMI		5TDDSKFC#PS083228		
			5TDJSKFC#PS083228		
			5TDASKFC#PS083228		
			5TDYSKFC#PS083228		
			5TDBSKFC#PS083228		
			5TDKSKFC#PS083228		
RAV4 Prime			JTMAB3FV#PD112920		
	TICO		JTM16RFV#PD079274		
			JTMB6RFV#PD536834		
	Takaoka		JTMRWRFV#PJ056039		
			JTM16RFV#PJ056039		
		4WD	JTMP1RFV#PJ056039		
			JTMW1RFV#PJ056039		
			JTMC1RFV#PJ056039		
			JTMD6RFV#PJ056039		
			JTME6RFV#PJ056039		
	4\		2T3DWRFV#PW353009		
DAY/4 LIV/			2T3RWRFV#PW353009		
RAV4 HV			2T35WRFV#PW353009		
			2T34WRFV#PW353009		
			2T3MWRFV#PW353009		
			2T3LWRFV#PW353009		
	ТММС		2T3BWRFV#PW353009		
			2T3D6RFV#NW037936		
			2T3E6RFV#NW037936		
			2T3B6RFV#NW037936		
			2T3R6RFV#NW037936		
			2T3T6RFV#NW037936		
			2T3M6RFV#NW037936		
			2T3L6RFV#NW037936		

TOYOTA T-SB-0033-23 June 8, 2023 Page 3 of 6

MIL ON With DTCs P24517F and/or P14502A

Production Change Information (continued)

MODEL	PLANT	DRIVETRAIN	RIVETRAIN PRODUCTION CHANGE EFFECTIVE VIN	
RAV4 HV	TMMK	4WD	4T3DWRFV#PU090125 4T3RWRFV#PU090125 4T3MWRFV#PU090125 4T3LWRFV#PU090125 4T3D6RFV#PU114639 4T3E6RFV#PU114639 4T3R6RFV#PU114639 4T3B6RFV#PU114639 4T3L6RFV#PU114639 4T3L6RFV#PU114639	
Highlander HV		2WD	5TDFARAH#PS017752 5TDYARAH#PS017752 5TDLA3AH#PS017752 5TDGARAH#PS017752 5TDAARAH#PS017752 5TDHARAH#PS017752 5TDZARAH#PS017752	
	ТММІ	AWD	5TDEBRCH#PS115785 5TDXBRCH#PS115785 5TDFBRCH#PS115785 5TDDBRCH#PS115785 5TDLB3CH#PS115785 5TDLC3CH#PS115785 5TDGBRCH#PS115785 5TDHBRCH#PS115785 5TDABRCH#PS115785	
Venza HV	Takaoka	4WD	JTEAAAAH#PJ120842	

TOYOTA T-SB-0033-23 June 8, 2023 Page 4 of 6

MIL ON With DTCs P24517F and/or P14502A

Warranty Information

OP CODE	MODEL	DESCRIPTION	TIME	OFP	T1	T2
237851	Sienna HV	R & R Fuel Evaporative Separator Sub-assembly	0.6	90910-15085	8A	
	RAV4 Prime		0.7			83
	RAV4 HV		0.5	77070-##### *		
	Highlander HV		0.5			
	Venza HV		0.6			

^{*}Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

APPLICABLE WARRANTY

- This repair is covered under the Toyota Federal 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.
- For 2021 2023 model year Sienna HV, 2021 model year RAV4 HV, and 2021 model year Venza HV equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty) California Emission Short-Term Defect Warranty is in effect for 3 years or 50,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Policy 4.7 and/or the Owner's Warranty & Maintenance Guide for additional information).
- For 2020 2023 model year Highlander HV, 2022 2023 model year RAV4 HV, and 2022 2023 model year Venza HV equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty California Emission Long-Term Defect Warranty is in effect for 7 years or 70,000 miles from the vehicle's in-service date, whichever occurs first. (Please reference Warranty Policy 4.7 and/or the Owner's Warranty & Maintenance Guide for additional information).
- For 2021 2023 model year RAV4 Prime vehicles equipped with a California Certified Emission Control System that are registered and operated in California or any state that adopts California emission warranty — Partial Zero Emission Vehicle (PZEV) Emission Warranty Coverage is in effect for 15 years or 150,000 miles, from the vehicle's in-service date, whichever occurs first. (Please reference Warranty Policy Bulletin POL14-09, Warranty Policy 4.7, and/or the Owner's Warranty & Maintenance Guide for additional information).

TOYOTA T-SB-0033-23 June 8, 2023 Page 5 of 6

MIL ON With DTCs P24517F and/or P14502A

Parts Information

MODEL	PART NUMBER		PART NAME	QTY
WIODEL	PREVIOUS	NEW	PARTNAME	Q(II
Sienna HV	90910-15085	90910-15089		
RAV4 Prime	90910-15065	90910-15069		
RAV4 HV			Valve Assy, Close Tank	1
Highlander HV	77070-48010	77070-48011		
Venza HV				

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*		TSADVUNIT	4
Techstream 2.0	ADE	TS2UNIT	
Techstream Lite	ADE	TSLITEPDLR01	'
Techstream Lite (Green Cable)		TSLP2DLR01	

^{*}Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2023.02.001.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

- 1. Confirm the condition exists.
 - A. Using Techstream, does the vehicle exhibit a MIL ON condition with one or both of the following DTCs stored?
 - P24517F Evaporative Emission System Switching Valve Actuator Stuck Off
 - P14502A Fuel Tank Pressure Sensor Signal Stuck in Range
 - B. Are ANY of the DTCs listed above present?
 - YES Continue to step 2.
 - NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

TOYOTA T-SB-0033-23 June 8, 2023 Page 6 of 6

MIL ON With DTCs P24517F and/or P14502A

Repair Procedure (continued)

2. Remove the fuel vapor containment valve (close tank with bolt valve assembly). Refer to TIS, applicable model and model year Repair Manual:

 2020 – 2023 Highlander HV: Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Removal"

• <u>2021 – 2023</u> RAV4 HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve (w/ Canister Pump Module): Removal"

• <u>2021 – 2023</u> RAV4 Prime:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Removal"

<u>2021 – 2023</u> Sienna HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Removal"

2021 – 2023 Venza HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Removal"

3. Install the NEW fuel vapor containment valve (close tank with bolt valve assembly). Refer to TIS, applicable model and model year Repair Manual:

2020 – 2023 Highlander HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Installation"

• 2021 – 2023 RAV4 HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve (w/ Canister Pump Module): Installation"

• 2021 – 2023 RAV4 Prime:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Installation"

• <u>2021 – 2023</u> Sienna HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Installation"

• 2021 – 2023 Venza HV:

Engine/Hybrid System – Emission Control – "A25A-FXS (Emission Control): Fuel Vapor Containment Valve: Installation"

4. Clear ALL DTCs and confirm the condition is no longer present.