

MIL ON with DTC P019064

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021 - 2025	RAV4 PHV, RAV4 Prime	

Introduction

Some 2021 – 2025 model year RAV4 Plug-in Hybrid and RAV4 Prime vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P019064 (Fuel Rail Pressure Sensor “A” Signal Plausibility Failure) present. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to address this condition. 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 YEAR	MODEL	ENGINE	PRODUCTION CHANGE EFFECTIVE VIN
2021 – 2025	RAV4 PHV, RAV4 Prime	A25A-FXS	JTMFB3FV#SD258665
			JTMEB3FV#SD258665
			JTMGB3FV#SD258665
			JTMAB3FV#SD258665
			JTMCB3FV#SD258665

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2519	Reprogram the ECM (PCM)	0.7	89661-4A###*	8A	74

*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 Emission Warranty. This warranty is in effect for 96 months or 80,000 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 – 2025 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.)

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89661-4AU80	89661-4AU81	Computer, Engine Control	1
89661-4AQ01	89661-4AQ02		
89661-4AT80	89661-4AT81		
89661-4AF12	89661-4AF13		
89661-4AU50	89661-4AU51		
89661-4AU20	89661-4AU21		
89661-4A873	89661-4A874		

NOTE

The ECM (PCM) should NOT be replaced as part of the Repair Procedure.

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P-T	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 or by visiting:
Home – Service Resources – Toyota Special Service Tools (SSTs).

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2025.03.004.02 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*.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming

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Calibration Information

MODEL YEAR	MODEL	ENGINE	CALIBRATION ID	
			PREVIOUS	NEW
2021 – 2025	RAV4 PHV, RAV4 Prime	A25A-FXS	8966342S7300	8966342S7400
			8966342S7200	
			8966342S7100	
			8966342S7000	
			896634AS2000	896634AS2100
			896634AS5000	896634AS5100
			8966342Z1200	8966342Z1300
			8966342Z1100	
			8966342Z1000	
			896634AR8000	896634AR8100
			896634AJ7100	896634AJ7200
			896634AJ7000	
			896634AT1000	896634AT1100

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with DTC P019064 (Fuel Rail Pressure Sensor “A” Signal Plausibility Failure) present?

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Use GTS+ to confirm if the ECM (PCM) calibration has been updated.

Is the calibration ID listed in GTS+ the latest ECM (PCM) calibration?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 3.

3. Flash reprogram the ECM (PCM).

NOTE

- The battery diagnostic tool **MUST** be used in ECU Reflash Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic station, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0021-25](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

4. Using GTS+, clear ANY DTC(s) and test-drive the vehicle to confirm the condition is no longer present.