

MIL ON With DTC(s) P01201C, P210015, P210019, and/or P211172 in Freezing Temperatures

Service Category Engine/Hybrid System

Section Intake/Exhaust

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021	Avalon	VDS(s): KB1BB, LB1BB, MB1BB, NB1BB Engine(s): A25
2020 - 2022	Camry	VDS(s): C11BK, E11BK, F11BK, G11BK, H11BK, J11BK, K61BK, L11BK, M11BK, R11BK, S11BK, T11BK Engine(s): A25
2019 - 2022	RAV4	VDS(s): A1RFV, B1RFV, C1RFV, D13FV, D1RFV, F1RFV, G1RFV, H1RFV, J13FV, J1RFV, K1RFV, N1RFV, P1RFV, R13FV, R1RFV, S1RFV, W1RFV Engine(s): A25

REVISION NOTICE

April 2, 2025 Rev2:

- The Parts Information section has been updated.

May 21, 2024 Rev1:

- Applicability has been updated to remove VDS(s): DZ1FB, C11AK, F11AK, G11AK, K61AK, KZ1AK, R11AK, S11AK, and T11AK.
- The Required Tools & Equipment section has been added.

Any previous printed versions of this bulletin should be discarded.

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Introduction

Some 2021 model year Avalon, 2020 – 2022 model year Camry, and 2019 – 2022 model year RAV4 vehicles equipped with an A25A-FKS engine may exhibit reduced engine power and/or a MIL ON condition with one or more of the following throttle body Diagnostic Trouble Codes (DTCs) present in freezing temperatures:

- P01201C: Throttle / Pedal Position Sensor / Switch “A” Circuit Voltage Out of Range.
- P210015: Throttle Actuator “A” Control Motor Circuit Short to Battery or Open.
- P210019: Throttle Actuator “A” Control Motor Circuit Current Above Threshold.
- P211172: Throttle Actuator “A” Control System Actuator Stuck Open.

The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic and the fuel pump assembly have been modified to address these conditions. Follow the Repair Procedure in this bulletin to address these conditions.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG2308	R & R ECM and Fuel Pump Assembly	1.2	89661-#####*	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.

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Parts Information

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Avalon	89661-07810	89661-07811	Computer, Engine Control (ECM/PCM)	1
Camry	89661-0X600	89661-0X601		
	89661-0X720	89661-0X723		
	89661-0X721			
	89661-0X722			
RAV4	89661-4AA10	89661-4AA13		
	89661-4AA11			
	89661-4AA12			
	89661-0RA70	89661-0RA73		
	89661-0RA71			
	89661-0RA72			
	89661-0RA50	89661-0RA53		
	89661-0RA51			
	89661-0RA52			
	89661-4AB00	89661-4AB03		
	89661-4AB01			
	89661-4AB02			
	89661-42L90	89661-42L93		
	89661-42L91			
	89661-42L92			
	89661-0RA40	89661-0RA43		
	89661-0RA41			
	89661-0RA42			
	89661-0RA20	89661-0RA23		
	89661-0RA21			
	89661-0RA22			
	89661-42M00	89661-42M03		
	89661-42M01			
	89661-42M02			
	89661-0RA30	89661-0RA33		
	89661-0RA31			
	89661-0RA32			

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Parts Information (continued)

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
RAV4	89661-4AA00	89661-4AA03	Computer, Engine Control (ECM/PCM)	1
	89661-4AA01			
	89661-4AA02			
	89661-4AA90	89661-4AA92		
	89661-4AA91			
	89661-0RA90	89661-0RA92		
	89661-0RA91			
	89661-0RA10	89661-0RA12		
	89661-0RA11			
	89661-4AB60	89661-4AB62		
	89661-4AB61			
	89661-4AB50	89661-4AB52		
	89661-4AB51			
	89661-0RB00	89661-0RB02		
	89661-0RB01			
	89661-4AB70	89661-4AB72		
	89661-4AB71			
	89661-4AB80	89661-4AB82		
	89661-4AB81			
	89661-0RB10	89661-0RB12		
	89661-0RB11			
	89661-0RB20	89661-0RB22		
	89661-0RB21			
	89661-4AG60	89661-4AG61		
	89661-0RC30	89661-0RC31		
	89661-0RC10	89661-0RC11		
	89661-4AG80	89661-4AG81		
	89661-4AG70	89661-4AG71		
	89661-0RC50	89661-0RC51		
	89661-0RC20	89661-0RC21		
	89661-0RC40	89661-0RC41		

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Parts Information (continued)

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
RAV4	89661-4AG90	89661-4AG91	Computer, Engine Control (ECM/PCM)	1
	89661-4AJ00	89661-4AJ01		
	89661-0RA60	89661-0RA63		
	89661-0RA61			
	89661-0RA62			
	89661-4A630	89661-42Y83		
	89661-42Y80			
	89661-42Y81			
	89661-42Y82	89661-0R613		
	89661-0R700			
	89661-0R610			
	89661-0R611			
	89661-0R612	89661-0R583		
	89661-0R430			
	89661-0R581			
	89661-0R582	89661-42Z03		
	89661-4A680			
	89661-42Z00			
	89661-42Z01	89661-42Z13		
	89661-42Z02			
	89661-4A530			
	89661-42Z10			
	89661-42Z11	89661-0R623		
	89661-42Z12			
	89661-0R730			
	89661-0R620			
	89661-0R621	89661-0R633		
	89661-0R622			
	89661-0R410			
	89661-0R630			
	89661-0R631			
	89661-0R632			

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Parts Information (continued)

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
RAV4	89661-0R640	89661-0R643	Computer, Engine Control (ECM/PCM)	1
	89661-0R641			
	89661-0R642			
	89661-42Z90	89661-42Z23		
	89661-42Z20			
	89661-42Z21			
	89661-42Z22			
	89661-4AA20	89661-4AA23		
	89661-4AA21			
	89661-4AA22			
	89661-42Z70	89661-42Y93		
	89661-42Y90			
	89661-42Y91			
	89661-42Y92			
	89661-0R820	89661-0R603		
	89661-0R600			
	89661-0R601			
	89661-0R602			
Avalon	77020-06660	77020-06661	Tube Assy, Fuel Suction W/Pump & Gage	1
Camry				
RAV4	77020-42230	77020-0R051		
	77020-0R050			
All	72693-#####		Rear Seat Cushion Lock Hook	2
	77169-#####		Fuel Suction Tube Set Gasket	1

NOTE

This ECUs software is calibrated to a specific fuel pump output, which is why BOTH the ECU and fuel pump MUST be replaced as part of this repair.

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Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2025.01.005.02 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 exhibit reduced engine power and/or a MIL ON condition with one or more of the following throttle body DTCs present in freezing temperatures?

- P01201C: Throttle / Pedal Position Sensor / Switch “A” Circuit Voltage Out of Range.
- P210015: Throttle Actuator “A” Control Motor Circuit Short to Battery or Open.
- P210019: Throttle Actuator “A” Control Motor Circuit Current Above Threshold.
- P211172: Throttle Actuator “A” Control System Actuator Stuck Open.
- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

2. Remove and replace the fuel pump assembly.

A. Remove the fuel pump assembly.

Refer to TIS, applicable model and model year Repair Manual:

- [2021](#) Avalon:
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly – Removal*
- [2020](#) / [2021 – 2022](#) Camry:
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly (for AWD) – Removal*
- [2019 – 2020](#) / [2021](#) / [2022](#) RAV4:
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly (w/o Canister Pump Module) – Removal*

B. Replace the fuel pump assembly.

Refer to TIS, applicable model and model year Repair Manual:

- [2021](#) Avalon:
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly – Installation*
- [2020 – 2022](#) Camry:
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly (for AWD) – Installation*
- [2019 – 2020](#) RAV4 (11/2018 – 08/2020):
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly (w/o Canister Pump Module) – Installation*
- [2019 – 2022](#) RAV4 (11/2018 –):
*Engine / Hybrid System – A25A-FKS (Fuel) –
Fuel Sender Gauge Assembly (w/ Canister Pump Module) – Installation*

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Repair Procedure (continued)

3. Remove and replace the ECM (PCM).

A. Remove the ECM (PCM).

Refer to TIS, applicable model and model year Repair Manual:

- [2021](#) Avalon:
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Removal
- [2020](#) / [2021 – 2022](#) Camry:
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Removal
- [2019 – 2020](#) RAV4 (11/2018 – 08/2020):
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Removal
- [2021 – 2022](#) RAV4 (08/2020 – 10/2022):
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Removal

B. Replace the ECM (PCM).

Refer to TIS, applicable model and model year Repair Manual:

- [2021](#) Avalon:
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Installation
- [2020 – 2022](#) Camry:
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Installation
- [2019 – 2020](#) RAV4 (11/2018 – 08/2020):
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Installation
- [2021 – 2022](#) RAV4 (08/2020 –):
Engine / Hybrid System – A25A-FKS (Engine Control) – ECM – Installation

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