

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

Service Category Engine/Hybrid System

Section Intake/Exhaust

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2022	Avalon HV, RAV4 HV	
2018 - 2022	Camry HV	
2020 - 2022	Camry	VDS(s): A11AK, B11AK, B11HK, B61AK, C11AK, E11AK, F11AK, G11AK, H11AK, J11AK, K61AK, K61BK, L11AK, M11AK, R11AK, S11AK, T11AK
2020 - 2022	Highlander HV	
2021 - 2022	RAV4 Prime, Sienna HV, Venza HV	

Introduction

Some 2018 – 2022 model year Toyota vehicles equipped with an A25A-FKS or A25A-FXS 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:

- 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.
- P01201C: Throttle / Pedal Position Sensor / Switch “A” Circuit Voltage Out of Range.

The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure in this bulletin to address this condition.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL2315	Reprogram the ECM (PCM)	0.7	89661-#####*	8A	74

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF 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 Emissions 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 – 2022 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

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Avalon HV	89661-06U30	89661-06U31	Computer, Engine Control (ECM/PCM)	-
	89661-07651	89661-07652		
	89661-07750	89661-07751		
	89661-07780	89661-07781		
Camry	89661-0X653	89661-0X654		
	89661-0X711	89661-0X712		
Camry HV	89661-06N45	89661-06N46		
	89661-0X284	89661-0X285		
	89661-06U30	89661-06U31		
	89661-0X430	89661-0X431		
	89661-0X561	89661-0X562		
	89661-0X571	89661-0X572		
	89661-0X621	89661-0X622		
89661-0X631	89661-0X632			

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

Parts Information (continued)

MODEL	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Highlander HV	89661-0EC01 89661-0EG31 89661-0EE60	89661-0EC02 89661-0EG32 89661-0EE61	Computer, Engine Control (ECM/PCM)	-
RAV4 HV	89661-4A281 89661-0R691 89661-0RB80 89661-4AF40 89661-4AA31 89661-0R891 89661-0RA81 89661-4AB11 89661-0RA81 89661-0RB80 89661-08700 89661-4AF40	89661-4A282 89661-0R692 89661-0RB81 89661-4AF41 89661-4AA32 89661-0R892 89661-0RA82 89661-4AB12 89661-0RA82 89661-0RB81 89661-08701 89661-4AF41		
RAV4 Prime	89661-4A871 89661-4AF10	89661-4A872 89661-4AF11		
Sienna HV	89661-08700 89661-08651	89661-08701 89661-08652		
Venza HV	89661-48W50 89661-4D150	89661-48W51 89661-4D151		

NOTE

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

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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 2023.02.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

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

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

Calibration Information

MODEL	MODEL YEAR	ENGINE	CALIBRATION ID	
			PREVIOUS	NEW
Avalon HV	2019	A25A-FXS	896630724000 896630724100	896630724200
			896630734000	896630734100
	896630737000		896630737100	
	8966306Q6000		8966306Q6100	
Camry	2020	A25A-FKS	8966306Q4000 8966306Q4100 8966306Q4200 8966306Q4300	8966306Q4400
	2021		8966306T3000 8966306T3100 8966306T3200	8966306T3300

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

Calibration Information (continued)

CALIBRATION ID	MODEL YEAR	ENGINE	CALIBRATION ID	
			PREVIOUS	PREVIOUS
Camry HV	2018	A25A-FXS	8966306B2100	8966306B2700
			8966306B2200	
			8966306B2300	
			8966306B2400	
			8966306B2500	
	8966306B2600			
	2019		8966306N8100	8966306N8600
			8966306N8200	
			8966306N8300	
			8966306N8400	
8966306N8500				
2020	8966306R5000	8966306R5200		
	8966306R5100			
	8966306R6000			
2021	8966306R6100	8966306R6200		
	8966306S0000	8966306S0200		
	8966306S0100	8966306S1200		
	8966306S1000	8966306S1100		
	8966306S1100	8966306S1200		
	8966306Q7000	8966306Q7100		
Highlander HV	2020	896630E66000	896630E66200	
	2021	896630E66100	896630E66200	
	2022	896630EB3000	896630EB3200	
	896630EB3100	896630EB3200		
	896630EE4000	896630EE4100		
RAV4 HV	2019	8966342W4001	8966342W4201	
	2020	8966342W4101	8966342W4201	
	2021	896634A23001	896634A23201	
	2022	896634A23101	896634A23201	
	896634A13001	896634A13201		
	896634A13101	896634A13201		
RAV4 Prime	2021	896634A02001	896634A02101	
	2022	8966342S7000	8966342S7200	
	8966342S7100	8966342S7200		
	8966342Z1000	8966342Z1100		
Sienna HV	2021	896630857001	896630857201	
	2022	896630841000	896630841100	
Venza HV	2021	896634D02001	896634D02101	
	2022	8966348W0000	8966348W0101	

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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?

- 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.
- P01201C: Throttle / Pedal Position Sensor / Switch “A” Circuit Voltage Out of Range.
- **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 Techstream 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 Power Supply 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-0057-23](#) *GTS+ ECU Flash Reprogramming Procedure* or [T-SB-0107-20](#) *GTS+ ECU Flash Reprogramming With Security Signature*, and flash the ECM (PCM) with the NEW calibration file update.

4. Clear ANY DTCs and test-drive the vehicle to confirm the condition is no longer present.