

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
2019	Avalon HV	
2018 - 2019	Camry HV	
2019 - 2021	RAV4 HV	

Introduction

Some 2019 model year Avalon Hybrid, 2018 – 2019 Camry Hybrid, and 2019 – 2021 RAV4 Hybrid vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P019064 (Fuel Rail Pressure Sensor “A” Signal Plausibility Failure). 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.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1918	Reprogram ECM (PCM), Perform Drive Pattern	1.0	89661-#####*	8A	99

*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 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	MODEL YEAR	BATTERY	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
RAV4 HV	2021	NiMH	89661-4AA30 89661-0R890	89661-4AA31 89661-0R891	Computer, Engine Control (ECM/PCM)	-
	2020	Li	89661-4AA40 89661-0RA00	89661-4AA41 89661-0RA01		
		NiMH	89661-4AB10 89661-0RA80	89661-4AB11 89661-0RA81		
2019	NiMH		89661-4A280 89661-0R690	89661-4A281 89661-0R691		
		89661-0X570	89661-0X571			
	Li	89661-0X560	89661-0X561			
2018		Li	89661-06N44	89661-06N45		
	NiMH		89661-0X283	89661-0X284		
Avalon HV		2019	NiMH	89661-07650		
All	-	-	00451-00001-LBL			

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Parts – Dealer Support Materials Orders*.

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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.
- Software version 17.00.020 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.

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Calibration Information

MODEL	MODEL YEAR	BATTERY	CALIBRATION ID	
			PREVIOUS	NEW
RAV4 HV	2021	NiMH	896634A13001	896634A13101
		Li	896634A14001	896634A14101
	2020	NiMH	896634A23001	896634A23101
			8966342W4001 8966306R6000	8966342W4101 8966306R6100
Camry HV	2019	Li	8966306R5000	8966306R5100
		Avalon HV	NiMH	896630724000
Camry HV				2018
	Li	8966306B2100 8966306B2200 8966306B2200 8966306B2300 8966306B2400 8966306B2500	8966306B2600	

Repair Procedure

- Using Techstream, check for DTC P019064 (Fuel Rail Pressure Sensor “A” Signal Plausibility Failure).
Is DTC P019064 present?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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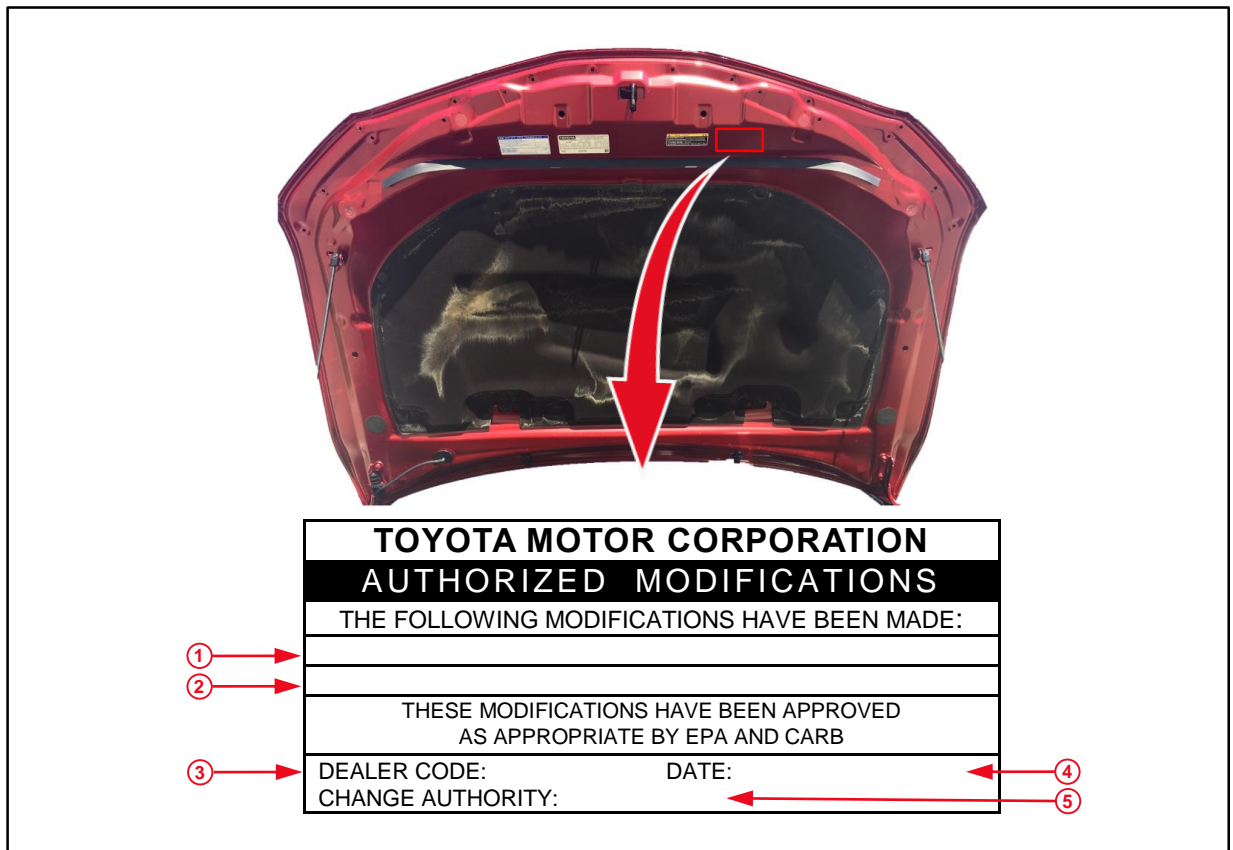
Repair Procedure (continued)

- Use Techstream to confirm if the ECM (PCM) calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the locations shown in Figures 1 – 3.

Is the calibration ID listed in Techstream and on the label the latest ECM (PCM) calibration?

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

Figure 1. Location of Authorized Modifications Label on 2019 Avalon HV



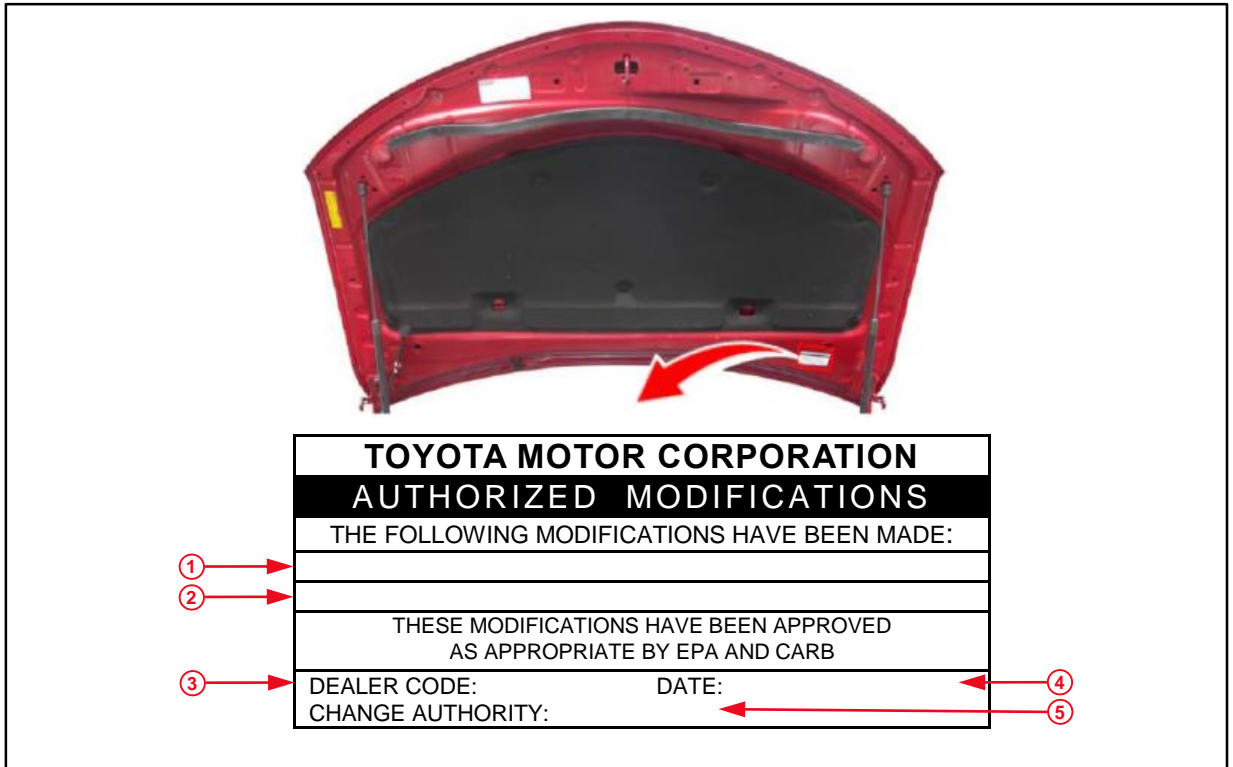
1	Replacement ECM (PCM) Part Number (e.g., 89661-07651)
2	New Calibration ID (e.g., 896630724100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

Figure 2. Location of Authorized Modifications Label on 2018 – 2019 Camry HV



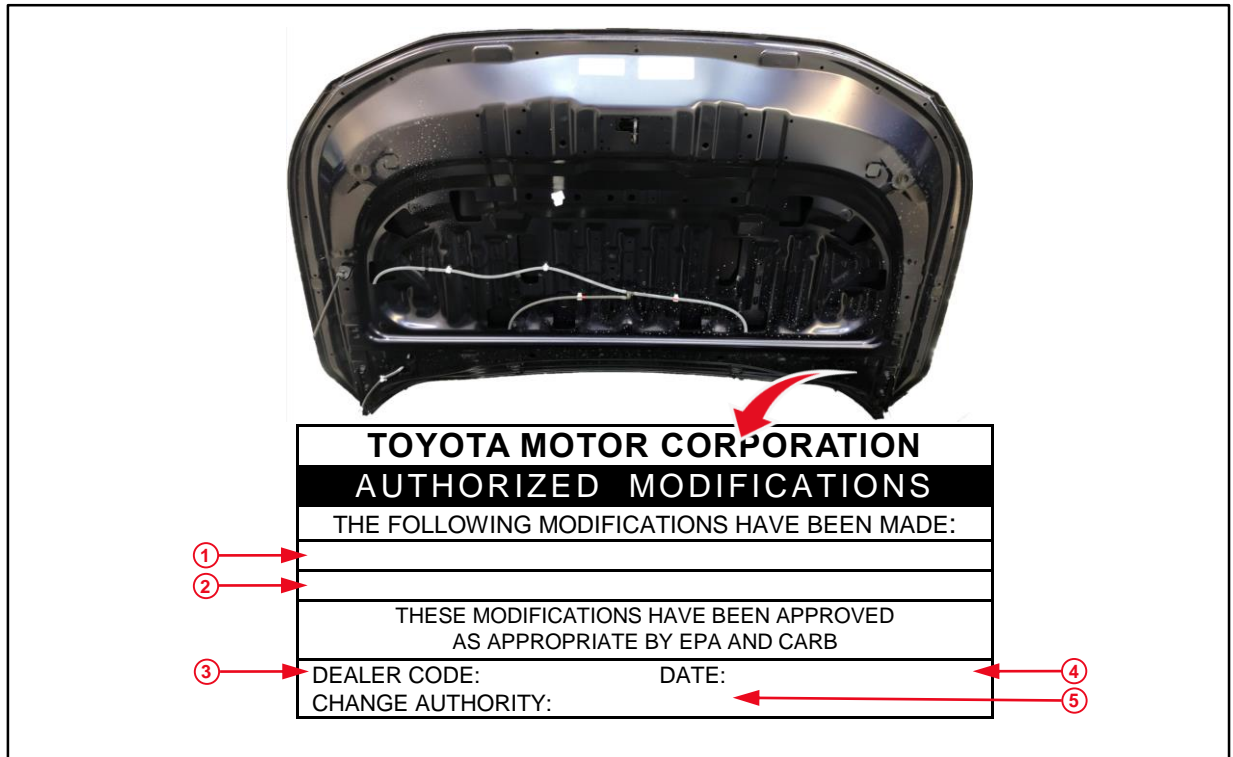
1	Replacement ECM (PCM) Part Number (e.g., 89661-0X561)
2	New Calibration ID (e.g., 8966306R6100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

Figure 3. Location of Authorized Modifications Label on 2019 – 2021 RAV4 HV



1	Replacement ECM (PCM) Part Number (e.g., 89661-4AA31)
2	New Calibration ID (e.g., 896634A13100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

- 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 Service Bulletin [T-SB-0134-16](#), *Techstream ECU Flash Reprogramming Procedure*, and flash the ECM (PCM) with the NEW calibration file update.

- Prepare and install the Authorized Modifications Label.
 - Using a permanent marker, enter the following information on the label:
 - ECM (PCM) part number [Refer to the **Parts Information** section for the **NEW PART NUMBER**]
 - Calibration ID(s) [Refer to the **Calibration Information** section for the **NEW CALIBRATION ID**]
 - Dealer Code
 - Repair Date
 - Change Authority [This bulletin number]
 - Install the Authorized Modifications Label onto the vehicle at the locations shown in Figures 1 – 3. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

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Repair Procedure (continued)

5. Perform the confirmation drive pattern to confirm DTC P019064 does NOT reoccur.

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

- [2019](#) Avalon HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”
- [2018](#) Camry HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”
- [2019](#) Camry HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”
- [2019](#) RAV4 HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: (w/ Canister Pump Module): P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”
- [2020](#) RAV4 HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: (w/ Canister Pump Module): P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”
- [2021](#) RAV4 HV:
Engine/Hybrid System – Engine Control – “A25A-FXS (Engine Control): SFI System: P01902A, P019064; Fuel Rail Pressure Sensor "A" Signal Stuck in Range”

Is DTC P019064 present?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — The repair is complete.