

MIL ON With DTC P0CDF72

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021	RAV4 Prime	

Introduction

Some 2021 model year RAV4 Prime vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P0CDF72 (Hybrid/EV Battery Cooling Magnetic Valve Actuator Stuck Open) present. The Amplifier Assy. Air Conditioner logic has been modified to reduce the possibility of 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	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
RAV4 Prime	Shokki-Nagakusa	AWD	JTM#B3FV#MD032776

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
800069	Reprogram Amplifier Assy, Air Conditioner Software	0.4	88650-42861	8A	74

APPLICABLE WARRANTY

- This repair is covered under the Toyota 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.
- 2021 RAV4 Prime vehicles that are registered and normally operated in California, Arizona (2012 model year only), Connecticut (starting with 2005 model year), Maine (starting with 2004 model year), Maryland (starting with 2011 model year), Massachusetts (starting with 2004 model year), New Hampshire (2005 – 2009 model year only), New Jersey (starting with 2005 model year), New Mexico (2010 – 2011 model year only), New York (beginning with 2004 model year with ZE models only; all models starting with 2016 model year), Oregon (starting with 2008 model year), Rhode Island (starting with 2005 model year), and Vermont (starting with 2004 model year) – 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 for additional information).
- Three additional states, Delaware beginning with (2014 model year), Pennsylvania (beginning with 2008 model year), and Washington (beginning with 2009 model year), have adopted the California Emission Warranty; however, in these states, performance and long-term defect warranty coverage is 7 years or 70,000 miles, whichever occurs first.

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
88650-42861	88650-42862	Amplifier Assy, Air Conditioner	–
00451-00001-LBL		Authorized Modifications Labels	1

NOTE

- The Amplifier Assy, Air Conditioner 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

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.

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 16.10.017 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.

Calibration Information

MODEL	ENGINE	VDS	CALIBRATION ID	
			PREVIOUS	NEW
RAV4 Prime	A25A	*B3FV	8865F4204005 8865F4204004 8865F4204003	8865F4204006

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with DTC P0CDF72?

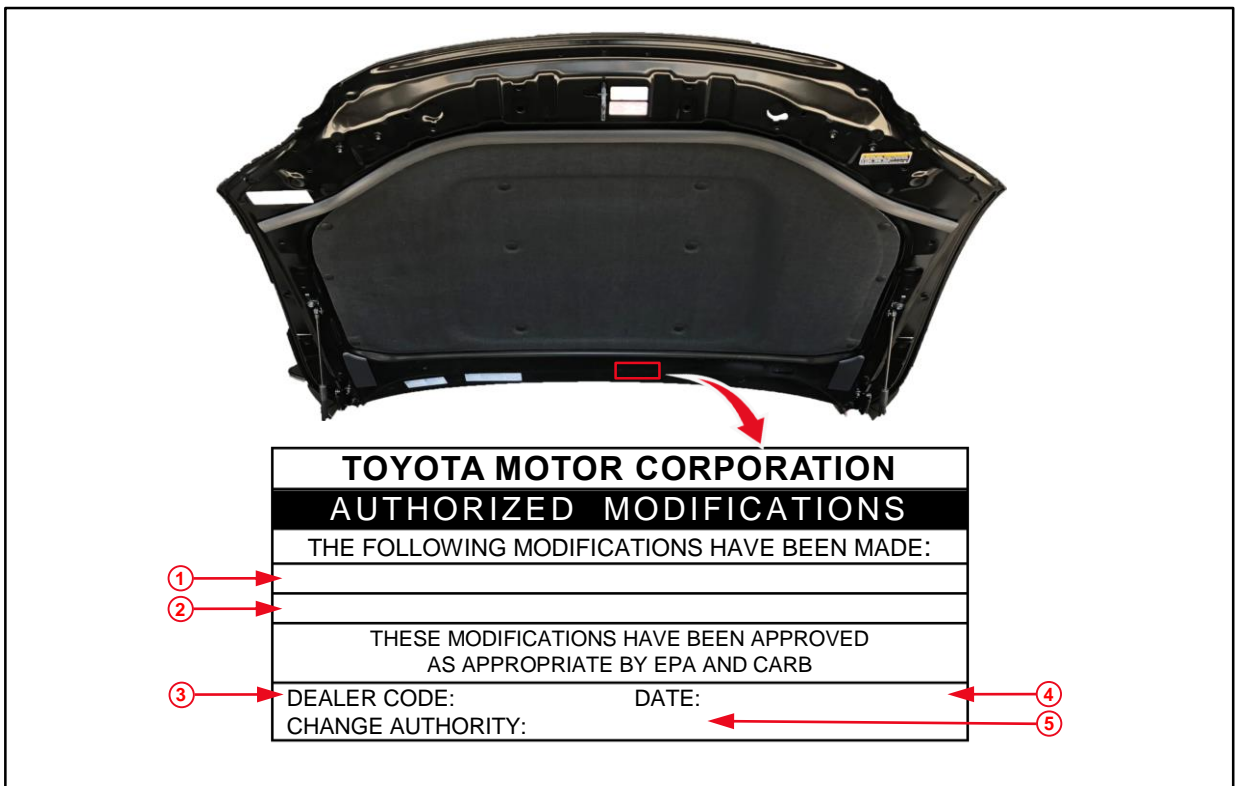
- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the Amplifier Assy, Air Conditioner calibration has been updated.

Is the calibration ID listed the latest Amplifier Assy, Air Conditioner 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 2021 RAV4 Prime



1	Replacement Amplifier Assy, Air Conditioner Part Number (e.g., 88650-42862)
2	New Calibration ID (e.g., 8865F4204006)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

3. Flash reprogram the Amplifier Assy, Air Conditioner.

NOTE

- The battery diagnostic tool **MUST** be used in Power Supply mode to maintain battery voltage at 13.0 – 13.5V while flash reprogramming the vehicle.
- For details on how to use the battery diagnostic tool, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0134-16](#) *Techstream ECU Flash Reprogramming Procedure* and flash the Amplifier Assy, Air Conditioner with the NEW calibration file update.

NOTE

Techstream will show two calibration IDs to be updated. The calibration ID 886AF4201002 will NOT change. Ensure the other calibration ID has updated to 8865F4204006. Refer to the Calibration Information section.

4. Prepare and install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - Amplifier Assy, Air Conditioner 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].
 - B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test-drive the vehicle to confirm normal vehicle operation and the condition is no longer present.