

MIL ON DTC P0A1F94

Service Category Engine/Hybrid System

Section Hybrid/Battery Control System

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2017	Prius Prime	Body Type(s): 4D, 5Dr. Sedan

REVISION NOTICE

June 17, 2019 Rev1:

- The Diagnostic Trouble Code (DTC) and has been updated.
 - The Required Tools and Equipment section has been updated.
- Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2017 model year Prius Prime vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P0A1F94 (Battery Energy Control Module [BECM] Unexpected Operation) when the ignition switch is on and the vehicle is in "Ready Off" status for at least 5 minutes. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL1905	Reprogram BECM	0.8	89890-47110	8A	74

APPLICABLE WARRANTY

- This repair is covered under the Toyota Hybrid System Warranty. This warranty is in effect for 96 months or 100,000 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 California Prius Prime vehicles sold, registered, and normally operated in California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, and Vermont, the California Emissions Defect and Performance Warranty coverage is 180 months from the date of first use, or 150,000 miles, whichever occurs first, from the vehicle's in-service date.

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Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89890-47110	89890-47111	Battery Energy Control Module (BECM)	–
00451-00001-LBL		Authorized Modifications Labels	1

NOTE

- The BECM 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*.

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 14.10.028 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
GR8 Battery Diagnostic Station*	00002-MCGR8	1

*Essential SST.

NOTE

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

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Calibration Information

MODEL	ECU TYPE	CALIBRATION ID	
		PREVIOUS	NEW
Prius Prime	Main	8989F4702000	8989F4702100
	Sub	8989G4702000	8989G4702100

Repair Procedure

1. Confirm the condition exists.

Is DTC P0A1F94 present when the ignition switch is ON and the vehicle is in “Ready Off” status for AT LEAST 5 minutes?

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

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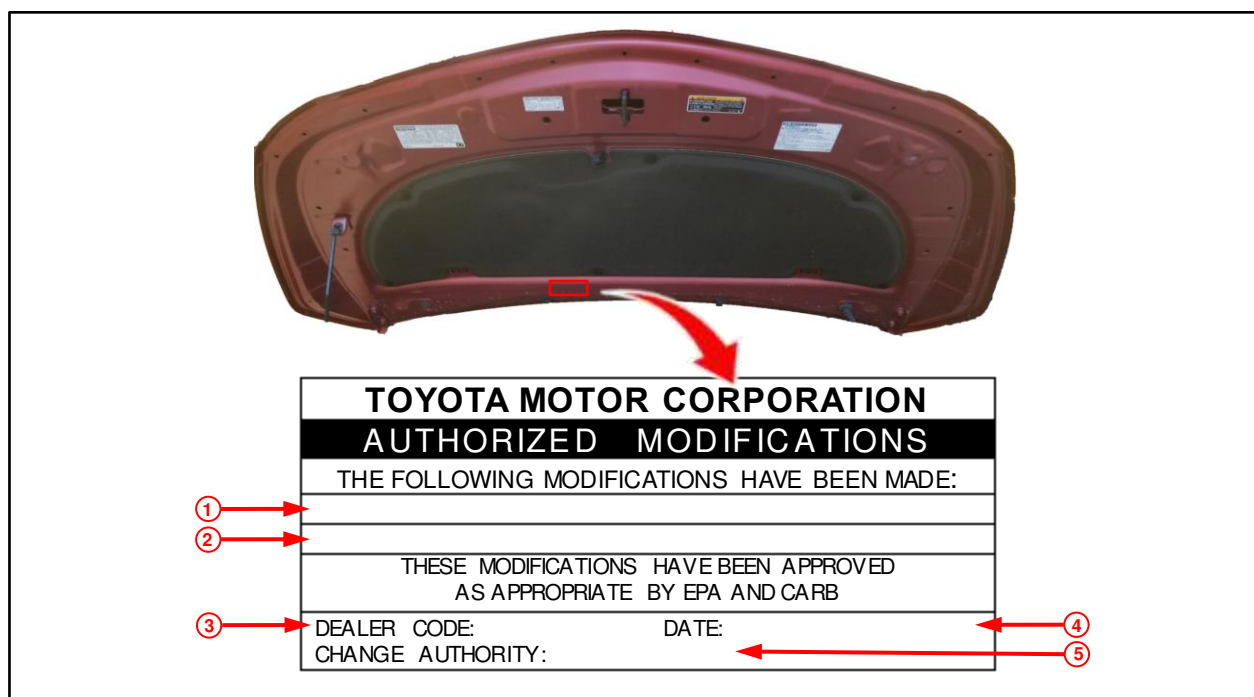
Repair Procedure (continued)

2. Use Techstream to confirm if the BECM calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the location shown below.

Is the calibration ID listed in Techstream and on the label the latest BECM 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 2017 Prius Prime



1	Replacement BECM Part Number (e.g., 89890-47111)
2	New Calibration ID (e.g., 8989F4702100)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

3. Flash reprogram the BECM.

NOTE

- The GR8 battery diagnostic station **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 GR8 battery diagnostic station, refer to the [GR8 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 BECM with the NEW calibration file update.

4. Prepare and install the Authorized Modifications Label.

A. Using a permanent marker, enter the following information on the label:

- BECM 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. Install the Authorized Modifications Label onto 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 proper operation.