

Parking Brake or Cruise Control Malfunction Message with DTC C13B0

Service Category Brake

Section Brake Control/Dynamic Control System

Market USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019 - 2020	Avalon	VDS(s): AZ1FB, BZ1FB, CZ1FB, DZ1FB, EZ1FB, FZ1FB, GZ1FB, HZ1FB, JZ1FB

Introduction

Some 2019 – 2020 model year Avalon vehicles may exhibit a Parking Brake Malfunction or Cruise Control Malfunction warning message on the MID (multi-information display) with Diagnostic Trouble Code (DTC) C13B0 (Electric Parking Brake ECU Malfunction) present. Follow the Repair Procedure in this bulletin to address this condition.

Figure 1. Parking Brake Malfunction Warning Message



Figure 2. Cruise Control Malfunction Warning Message



NOTE

This Service Bulletin ONLY applies to 2019 – 2020 model year Avalon vehicles equipped with Electronic Parking Brakes.

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
BR1913	Reprogram Skid Control Computer	0.8	44050-07150 44050-07160 44050-07170 44050-07200	8C	99

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.

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89541-07170	89541-07171	Skid Control Computer	-
89541-07210	89541-07211		
89541-07180	89541-07181		
89541-07220	89541-07221		
00451-00001-LBL		Authorized Modifications Labels	1

NOTE

- The skid control ECU 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.

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Required Tools & Equipment (continued)

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 14.30.022 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	ECU	CALIBRATION ID	
		PREVIOUS	NEW
Avalon	Skid Control Computer	F152607140	F152607141
		F152607150	F152607151
		F152607160	F152607161
		F152607170	F152607171

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a Parking Brake Malfunction or Cruise Control Malfunction message on the MID with DTC C13B0 present?

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

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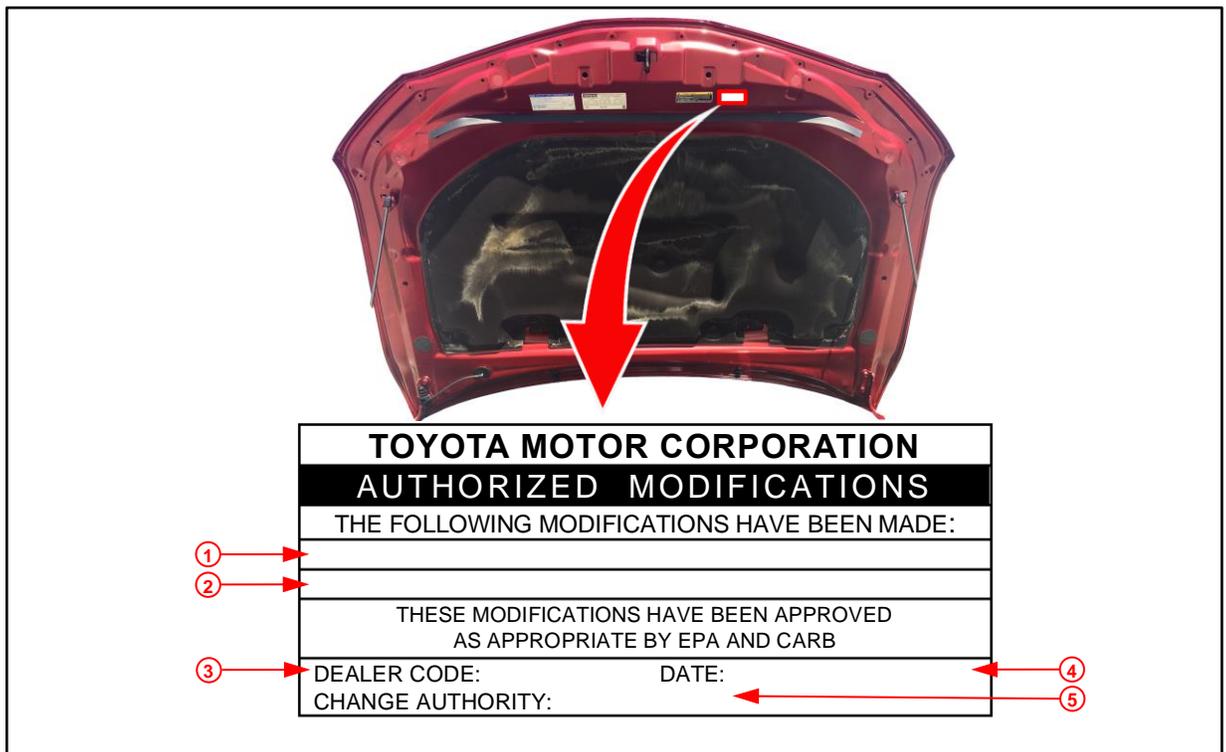
Repair Procedure (continued)

2. Does the Parking Brake Malfunction or Cruise Control Malfunction message go away (at least temporarily) after shutting off and restarting the vehicle?
 - **YES** — Continue to step 3.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
3. Use Techstream to confirm if the skid control ECU 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 skid control ECU calibration?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 4.

Figure 3. Location of Authorized Modifications Label on 2019 – 2020 Avalon



1	Replacement ECM (PCM) Part Number (e.g., 89541-07170)
2	New Calibration ID (e.g., F152607141)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (continued)

4. Flash reprogram the skid control ECU.

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 skid control ECU with the NEW calibration file update.

5. Prepare and install the Authorized Modifications Label.
 - A. 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***]
 - B. Install the Authorized Modifications Label onto the vehicle at the location shown in Figure 3. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
6. Test-drive the vehicle to confirm proper operation.