

Vehicle Starts in Second Gear, Unable to Shift Into First Gear

Service Category Drivetrain

Market USA and Mexico

Section Automatic Transmission/Transaxle

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2024	Sequoia HV	
2022 - 2024	Tundra HV	

REVISION NOTICE

April 15, 2024 Rev1:

- The Required Tools & Equipment section has been updated.
- Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2022 – 2024 model year Tundra Hybrid and 2023 – 2024 model year Sequoia Hybrid vehicles may exhibit a condition where the vehicle starts in second gear from a stop, and does not allow a manual shift to first gear (S1) without first switching to 4WD or driving over 15 mph. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to address these conditions. Follow the Repair Procedure in this bulletin to address these conditions.

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Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2401	Reprogram the ECM (PCM)	0.7	89541-#####*	87	74

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP 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.

For Mexico Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2401	Reprogram the ECM (PCM)	0.7	89541-#####*	87	74

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP 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 Basic Warranty. This warranty is in effect for 36 months or 60,000 kilometers, 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	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
Tundra HV	89541-34070 89541-34071	89541-34072	Computer, Engine Control (ECM/PCM)	-
	89541-34080 89541-34081	89541-34082		
	89541-0C820	89541-0C821		
	89541-0C830	89541-0C831		
Sequoia HV	89541-0C780 89541-0C781	89541-0C782		

NOTE

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

Required Tools & Equipment

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

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335 (USA) or 01-800-504-5330 (Mexico) or by visiting *Home – Service Resources – Toyota Special Service Tools (SSTs)*.

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 2024.01.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or 01-55-50103041 (Mexico) or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

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Calibration Information

MODEL	MODEL YEAR	WHEELBASE	CALIBRATION ID	
			PREVIOUS	NEW
Tundra HV	2022 – 2023	STD	F15263402300 F15263402400	F15263402500
		Long	F15263403300 F15263403400	F15263403500
	2024	STD	F15260C41000	F15260C41100
		Long	F15260C42000	F15260C42100
Sequoia HV	2023 – 2024	Short	F1526-0C34100 F1526-0C34200	F15260C34300

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a condition where the vehicle starts in second gear from a stop, and does not allow a manual shift to first gear (S1) without first switching to 4WD or driving over 15 mph?

- **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 GTS+ the latest ECM (PCM) calibration?

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

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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-0107-20](#), *GTS+ ECU Flash Reprogramming With Security Signature*, to flash reprogram the ECM (PCM) with the NEW calibration file update.

- Clear ANY DTCs and test-drive the vehicle to confirm the condition has been resolved.