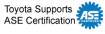


Hesitation/Non-linear Acceleration From a Stop

Service

Category Engine/Hybrid System

Section Engine Control Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023	Highlander	

Introduction

Some 2023 model year Highlander vehicles may exhibit one or both of the following conditions:

- Hesitation when accelerating from a stop.
- Non-linear acceleration from a stop or rolling stop with steady throttle.

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.

Warranty Information

OP CODE	DESCRIPTION		OFP	T1	T2
EL2316	Reprogram the ECM (PCM)	0.7	89661-####*	04	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.

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Hesitation/Non-linear Acceleration From a Stop

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
896610EM5000	896610EM5100	Computer, Engine Control	
896610EM6000	896610EM6100	(ECM/PCM)	_
896610EM7000	896610EM7100		

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	<u>DCA-8000P T</u>	1	

^{*}Essential SST.

NOTE

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

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*		TSADVUNIT	
Techstream 2.0	ADE	TS2UNIT	4
Techstream Lite	ADE	TSLITEPDLR01]
Techstream Lite (Green Cable)		TSLP2DLR01	

^{*}Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2023.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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Hesitation/Non-linear Acceleration From a Stop

Calibration Information

MODEL	DRIVETRAIN	CALIBRATION ID		
		PREVIOUS	NEW	
Highlander	FF_With Start/Stop	896630EG3000	896630EG3100	
	FF_Without Start/Stop	896630EG4000	896630EG4100	
	AWD	896630EG5000	896630EG5100	

Repair Procedure

1. Confirm the condition(s) exist(s).

Does the vehicle exhibit a hesitation when accelerating from a stop and/or a non-linear acceleration from a stop or rolling stop with steady throttle?

- 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.
- 3. 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 <u>DCA-8000 Instruction Manual</u> located at *TIS Diagnostics Tools & Equipment Battery Diagnostics.*

Follow the procedures outlined in Service Bulletin <u>T-SB-0057-23</u> *GTS+ ECU Flash Reprogramming Procedure,* and flash the ECM (PCM) with the NEW calibration file update.

4. Clear ANY DTCs and test-drive the vehicle to confirm the condition has improved.

NOTE

The condition may immediately improve, BUT full effectiveness of the countermeasure software may NOT be felt until the vehicle learned values are reset via regular driving of the vehicle.