

# Hesitation/Non-linear Acceleration From a Stop

**Service Category** Engine/Hybrid System

**Section** Engine Control

**Market** USA

Toyota Supports  
 ASE Certification 

## 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	TIME	OFF	T1	T2
EL2316	Reprogram the ECM (PCM)	0.7	89661-#####*	04	74

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

## Hesitation/Non-linear Acceleration From a Stop

### Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
896610EM5000	896610EM5100	Computer, Engine Control (ECM/PCM)	-
896610EM6000	896610EM6100		
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	<a href="#">DCA-8000P I</a>	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.
- 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.

## Hesitation/Non-linear Acceleration From a Stop

### Calibration Information

MODEL	DRIVETRAIN	CALIBRATION ID	
		PREVIOUS	NEW
Highlander	FF_With Start/Stop	896630EG3000	<a href="#">896630EG3100</a>
	FF_Without Start/Stop	896630EG4000	<a href="#">896630EG4100</a>
	AWD	896630EG5000	<a href="#">896630EG5100</a>

### Repair Procedure

- 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.
- 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.
- 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-0057-23](#) *GTS+ ECU Flash Reprogramming Procedure*, and flash the ECM (PCM) with the NEW calibration file update.

- 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.