TOYOTA
Technical Service Bulletin

MIL ON With DTC P042000

Service Category Vehicle Interior

Section Meter/Gauge/Display **Market** USA

Toyota Supports ASE Certification

Applicability

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

Introduction

Some 2023 model year Highlander vehicles equipped with a T24A-FTS engine may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P042000 (Catalyst System Efficiency Below Threshold Bank 1) present. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2616	Engine ECU Reprogramming and Confirmation Driving Pattern	1.2	89661-0EM##*	8A	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 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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Parts Information

PART NUMBER	PART NAME	QTY
89661-#####	Computer, Engine Control (ECM/PCM)	–

NOTE

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

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P-T	1
MSP-070 Power Supply / Charger	MTRMSP0702	1

*Essential SST.

NOTE

- Only ONE of the 12V battery power supply units listed above is required to support reprogramming.
- Additional SSTs may be ordered by calling 1-800-368-6787 or by visiting:
  Home – Service Resources – Toyota Tools and Equipment Program.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi* w/ Grey Case VIM	ADE	TSADVUNITECP	1
Techstream Lite w/ Blue & Black Case w/ Detachable Cable		TSLP3DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2026.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

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Calibration Information

MODEL	MODEL YEAR	ENGINE	TYPE	CALIBRATION ID		FILE NAME – SIZE
				PREVIOUS	NEW	
Highlander	2023	T24A-FTS	4WD	896630EG5000 896630EG5100	896630EG5200	T-0065-26.cuw – 16.1MB
			FF with Stop/Start	896630EG3000 896630EG3100	896630EG3200	T-0066-26.cuw – 16.1MB

Repair Procedure

1. Confirm the condition exists.
   Does the vehicle exhibit a MIL ON condition with DTC P042000 (Catalyst System Efficiency Below Threshold Bank 1) present?
   - **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 DCA-8000 Battery Diagnostic Tool MUST be used in ECU Reflash Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
   - The MSP-070 Power Supply / Charger can be used on either the 13.6V or 14.4V setting to maintain battery voltage while flash reprogramming the vehicle.
   - For details on how to use the 12V battery power supply units, refer to the instruction manuals located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

   Follow the procedures outlined in Service Bulletin T-SB-0057-23, *GTS+ ECU Flash Reprogramming With Security Signature,* and flash reprogram the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (continued)

4. Using GTS+, clear ANY DTCs and test-drive the vehicle in accordance with the confirmation driving pattern described in the Repair Manual below to confirm the condition is no longer present.

   Refer to TIS, applicable model and model year Repair Manual:

   - 2023 Highlander:
     Engine / Hybrid System – T24A-FTS (Engine Control) – SFI System – P042000 Catalyst System Efficiency Below Threshold Bank 1

5. Does the vehicle exhibit a MIL ON with DTC P042000 (Catalyst System Efficiency Below Threshold Bank 1) present?
   - **YES —** Continue diagnosis using the applicable Repair Manual.
   - **NO —** The vehicle is repaired.

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