

MIL ON With DTC P05CE00

Service Category Vehicle Interior

Section Meter/Gauge/Display

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2024	Crown	VDS(s): AFAAF Engine(s): T24
2024	Grand Highlander HV	VDS(s): ADAB5 Engine(s): T24

Introduction

Some 2023 – 2024 Crown and 2024 model year Grand Highlander Hybrid vehicles equipped with a T24A-FTS engine may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P05CE00 (Cold Start “B” Camshaft Position Timing Performance 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.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	DRIVETRAIN	ENGINE	PRODUCTION CHANGE EFFECTIVE VIN
Crown	Tsutsumi	4WD	T24A-FTS	JTDAFAAF#S3009651
Grand Highlander HV	TMMI			5TDADAB5#RS008432

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Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	OFF	T1	T2
EL2416	Reprogram the ECM (PCM)	0.7	Crown	89661-3A###* 89661-4D###*	8A	74
EL2417			Grand Highlander HV	89661-0EL##*		

*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.

Parts Information

PART NUMBER	PART NAME	QTY
89661-#####	Computer, Engine Control	-

NOTE

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

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Required Tools & Equipment

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 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 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.

Calibration Information

MODEL	MODEL YEAR	ENGINE	DRIVE TYPE	CALIBRATION ID		
				PREVIOUS	NEW	
Crown	2023 – 2024	T24A-FTS	4WD	8A2223009000	8A2223009500	
				8A2223009100		
				8A2223009200		
				8A2223009300		
				8A2223009400		
Grand Highlander HV	2024			8A2220E06000	4WD	8A2220E06600
				8A2220E06100		
				8A2220E06200		
				8A2220E06300		
				8A2220E06400		
		8A2220E06500				

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with DTC P05CE00 (Cold Start “B” Camshaft Position timing Performance 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 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 tool, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in [T-SB-0107-20](#), *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

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

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

- [2023 – 2024](#) Crown:
Engine / Hybrid System – T24A-FTS (Engine Control) – SFI System – P001400, P001500, P05CE00; Camshaft Position “B” - Timing Over-Advanced or System Performance Bank 1
- [2024](#) Grand Highlander Hybrid:
Engine / Hybrid System – T24A-FTS (Engine Control) – SFI System (for 1Motor-HEV Model) – P001400, P001500, P05CE00; Camshaft Position “B” - Timing Over-Advanced or System Performance Bank 1