

# 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	NX350	VDS(s): AGCEZ, GGCEZ, HGCEZ, KGCEZ Engine(s): T24

## Introduction

Some 2023 – 2024 model year NX 350 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.

## Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL	OFF	T1	T2
EL2414	Reprogram the ECM (PCM)	0.7	NX 350 Japan Produced (VIN Begins w/ JTJ)	89661-78###*	8A	74
EL2415			NX 350 North American Produced (VIN Begins w/ 2T2)	89661-F6###*		

\*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 Lexus 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-F6###*	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
DCA-8000 Battery Diagnostic Tool*	<a href="#">DCA-8000P T</a>	1

\*Essential SST.

**NOTE**

Additional SSTs may be ordered by calling 1-800-933-8335 or by visiting *Home – Service Resources – Lexus 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](http://techinfo.toyota.com) for more information regarding J2534 reprogramming.

### Calibration Information

MODEL	MODEL YEAR	PLANT	ENGINE	SPEC	CALIBRATION ID	
					PREVIOUS	NEW
NX 350	2023 – 2024	TMMC	T24A-FTS	Non F-Sport	8A222F605000 8A222F605100	<a href="#">8A222F605200</a>
				F Sport	8A222F606000 8A222F606100	<a href="#">8A222F606200</a>
		TMK		Non F-Sport	8A2227811000 8A2227811100 8A2227811200	<a href="#">8A2227811300</a>
				F Sport	8A2227815000 8A2227815100 8A2227815200	<a href="#">8A2227815300</a>

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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 [L-SB-0036-22](#), *GTS+ ECU Flash Reprogramming Procedure 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](#) NX 350:  
*Engine / Hybrid System – T24A-FTS (Engine Control) – SFI System – P001400, P001500, P05CE00; Camshaft Position “B” - Timing Over-Advanced or System Performance Bank 1*
- [2024](#) NX 350:  
*Engine / Hybrid System – T24A-FTS (Engine Control) – SFI System – P001400, P001500, P05CE00; Camshaft Position “B” - Timing Over-Advanced or System Performance Bank 1*