

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 |
|-------------|----------|------------------------------------------------------|
| 2022 | NX350 | VDS(s): AGCEZ, GGCEZ, HGCEZ, KGCEZ Engine(s): T24 |
| 2023 - 2024 | RX500H | VDS(s): BCMEA Engine(s): T24 |
| 2024 | TX500H | VDS(s): ABAB6 Engine(s): T24 |

Introduction

Some 2022 model year NX 350, 2023 – 2024 model year RX 500h, and 2024 model year TX 500h 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

All 2022 model year NX 350 vehicles are affected.

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

| MODEL | PLANT | DRIVETRAIN | ENGINE | PRODUCTION CHANGE EFFECTIVE VIN |
|---------|-------|------------|----------|---------------------------------|
| RX 500h | TMMC | 4WD | T24A-FTS | 2T2BCMEA#RC017224 |
| TX 500h | TMMI | | | 5TDADAB6#RS004312 |

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Warranty Information

| OP CODE | DESCRIPTION | TIME | MODEL | OFP | T1 | T2 |
|---------|-------------------------|------|-------------------------------------------------------|---------------|----|----|
| EL2410 | Reprogram the ECM (PCM) | 0.7 | NX 350 Japan Produced (VIN Begins w/ JTJ) | 89661-78####* | 8A | 74 |
| EL2411 | | | NX 350 North American Produced (VIN Begins w/ 2T2) | 89661-F6####* | | |
| EL2412 | | | RX 500h TX 500h | 89661-0E####* | | |

*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 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-##### | 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 – 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 for more information regarding J2534 reprogramming.

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Calibration Information

| MODEL | MODEL YEAR | PLANT | ENGINE | DRIVE TYPE | CALIBRATION ID | |
|---------|-------------|-------------|----------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------|
| | | | | | PREVIOUS | NEW |
| NX 350 | 2022 | TMK | T24A-FTS | Non F Sport | 8A2227801000 8A2227801100 8A2227801200 8A2227801300 8A2227801400 8A2227801500 | 8A2227801600 |
| | | | | F Sport | 8A2227805000 8A2227805100 8A2227805200 8A2227805300 8A2227805400 8A2227805500 | 8A2227805600 |
| | | Non F Sport | | 8A222F603000 8A222F603100 8A222F603200 8A222F603300 | 8A222F603400 | |
| | | F Sport | | 8A222F604000 8A222F604100 8A222F604200 8A222F604300 | 8A222F604400 | |
| RX 500h | 2023 – 2024 | TMMC | | 4WD | 8A2220E08000 8A2220E08100 8A2220E08200 8A2220E08300 8A2220E08400 8A2220E08500 | 8A2220E08600 |
| TX 500h | 2024 | TMMI | | 4WD | 8A2220E28000 8A2220E28100 8A2220E28200 8A2220E28300 | 8A2220E28400 |

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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 station, 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:

- [2022](#) 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
- [2023 – 2024](#) RX 500h:
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
- [2024](#) TX 500h:
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