

# MIL ON With DTC(s) P2E0464 and/or P2E0064

**Service**
**Category** Drivetrain  
Automatic

**Section** Transmission/Transaxle

**Market** USA and Mexico

 Toyota Supports  
 ASE Certification 
**Applicability**

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2022 - 2024	NX250	
2022 - 2023	NX350	
2022	NX350H, NX450H+	

**REVISION NOTICE**
**October 05, 2023 Rev1:**

- **Applicability has been updated to include 2022 – 2024 model year NX 250 and 2022 – 2023 model year NX 350 vehicles.**
- **The Introduction, Parts Information, Required Tools & Equipment, Calibration Information, and Repair Procedure sections have been updated.**

**Any previous printed versions of this bulletin should be discarded.**
**Introduction**

Some 2022 – 2024 model year NX 250, 2022 – 2023 model year NX 350, and 2022 model year NX 350h and NX 450h+ vehicles may exhibit a MIL ON condition with one or both of the following Diagnostic Trouble Codes (DTCs) present:

- P2E0464 (SAE code P2E05) — Gear Lever Position Sensor “B” Signal Plausibility Failure.
- P2E0064 (SAE code P2E01) — Gear Lever Position Sensor “A” Signal Plausibility Failure.

The transmission floor shift assembly logic has been modified to reduce the possibility of this condition. Follow the Repair Procedure in this bulletin to address this condition.

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### Production Change Information

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

PLANT	MODEL	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Tahara	NX 250	AWD	JTJ#DCAZ#P5015454
	NX 350h		JTJ#KCEZ#N5003633
Kyushu	NX 250		JTJHDCAZ#R2008541 JTJ#DCAZ#P2007814 JTJADCEZ#P2002570
	NX 350		JTJ#GCEZ#P2009984
	NX 350h		JTJ#KCEZ#N2007240
	NX 450h+		JTJ#KCFZ#N2008221
TMMC	NX 250		2T2#DCAZ#PC005617 2T2#DCEZ#PC003946
	NX 350		2T2#DCAZ#PC005617 2T2#DCEZ#PC003946 2T2#GCEZ#PC029664
	NX 350h		2T2#KCEZ#NC007380

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### Warranty Information

#### For USA Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
TC1913	Reprogram the Transmission Floor Shift Assembly	0.8	33550-#####*	8C	99

\*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 (USA)**

- This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 48 months or 50,000 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.

#### For Mexico Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
TC1913	Reprogram the Transmission Floor Shift Assembly	0.8	33550-#####*	8C	99

\*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 (MEXICO)**

- This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 48 months or 80,000 kilometers, 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

For USA and Mexico Markets

CBU / NAP	HV / GAS	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
CBU	Gas	33550-78030	33550-78031	Floor Shift Assembly, Transmission	-
NAP	Gas	33550-F6010 33550-F6011	33550-F6012		
CBU	HV	33550-78050	33550-78051		
NAP	HV	33550-F6020	33550-F6021		

**NOTE**

The transmission floor shift assembly should NOT be replaced as part of the Repair Procedure.

### Required Tools & Equipment

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 (USA) or 01-55-50103041 (Mexico).
- 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.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	<a href="#">DCA-8000P T</a>	1

\*Essential SST.

**NOTE**

Additional SSTs may be ordered by calling 1-800-933-8335 (USA) or 01-800-504-5330 (Mexico).

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### Calibration Information

MODEL	ECU	CALIBRATION ID	
		PREVIOUS	NEW
NX 250, NX 350	Gear Shift Control Module "A"	894EF7801000	<a href="#">894EF7801300</a>
NX 350h, NX 450h+		894EF7802000	<a href="#">894EF7802100</a>

### Repair Procedure

- Confirm the condition exists.  
Does the vehicle exhibit a MIL ON condition with one or both of the following DTCs?
  - P2E0464 (SAE code P2E05) — Gear Lever Position Sensor "B" Signal Plausibility Failure.
  - P2E0064 (SAE code P2E01) — Gear Lever Position Sensor "A" Signal Plausibility Failure.
  - YES** — Continue to step 2.
  - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

- Flash reprogram the transmission floor shift assembly.

**NOTE**

- The battery diagnostic tool **MUST** be used in Power Supply mode to maintain battery voltage at 13.0 – 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 +Techstream ECU Flash Reprogramming Procedure With Security Signature* and flash the transmission floor shift assembly with the NEW calibration file update.

- Test-drive the vehicle to confirm normal vehicle operation and there are no DTCs present.