

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

**Service****Category** Drivetrain  
Automatic**Section** Transmission/Transaxle**Market** USA and MexicoToyota 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.

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

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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<br>JTJ#DCAZ#P2007814<br>JTJADCEZ#P2002570 |
|        | NX 350   |            | JTJ#GCEZ#P2009984                                           |
|        | NX 350h  |            | JTJ#KCEZ#N2007240                                           |
|        | NX 450h+ |            | JTJ#KCFZ#N2008221                                           |
| TMMC   | NX 250   |            | 2T2#DCAZ#PC005617<br>2T2#DCEZ#PC003946                      |
|        | NX 350   |            | 2T2#DCAZ#PC005617<br>2T2#DCEZ#PC003946<br>2T2#GCEZ#PC029664 |
|        | NX 350h  |            | 2T2#KCEZ#NC007380                                           |

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

### Warranty Information

#### For USA Market

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

\*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 (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 | OFP         | T1 | T2 |
|---------|-------------------------------------------------|------|-------------|----|----|
| TC1913  | Reprogram the Transmission Floor Shift Assembly | 0.8  | 33550-***** | 8C | 99 |

\*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 (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.

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

### 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<br>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).

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

### 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.