

Rattle Noise From Hybrid Module at Idle in Drive or Reverse When Engine is Fully Warmed

Service Category Drivetrain

Market USA and Mexico

Section Hybrid Transmission/Transaxle

Toyota Supports
 ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|------------|------------------------|
| 2023 - 2024 | Sequoia HV | |
| 2022 - 2024 | Tundra HV | |

Introduction

Some 2023 – 2024 model year Sequoia Hybrid and 2022 – 2024 model year Tundra Hybrid vehicles may exhibit a rattle sound from the hybrid module when the engine is at idle in drive or in reverse once fully warmed up. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to address 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 | PRODUCTION CHANGE EFFECTIVE VIN |
|------------|-------|------------|---------------------------------|
| Sequoia HV | TMMTX | 2WD | 7SVAAAAA#RX003768 |
| | | 4WD | 7SVAAABA#RX046073 |
| Tundra HV | | 2WD | 5TF##5AB#SX003898 |
| | | | 5TF##5BC#RX001208 |
| | | 4WD | 5TF##5DB#RX085187 |
| | | | 5TF##5EC#RX008209 |

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Warranty Information

For USA Market

| OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|---------|-------------------------|------|---------------|----|----|
| EL2426 | Reprogram the ECM (PCM) | 0.7 | 89661-0C####* | 87 | 74 |

*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.

For Mexico Market

| OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|---------|-------------------------|------|---------------|----|----|
| EL2426 | Reprogram the ECM (PCM) | 0.7 | 89661-0C####* | 87 | 74 |

*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 Basic Warranty. This warranty is in effect for 36 months or 60,000 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

| PART NUMBER | | PART NAME | QTY |
|-------------|-------------|------------------------------------|-----|
| PREVIOUS | NEW | | |
| 89661-0CU73 | 89661-0CU74 | Computer, Engine Control (ECM/PCM) | - |
| 89661-0CU72 | | | |
| 89661-0CU71 | | | |
| 89661-0CU70 | | | |
| 89661-0CU83 | 89661-0CU84 | | |
| 89661-0CU83 | | | |
| 89661-0CU82 | | | |
| 89661-0CU80 | | | |
| 89661-0CU90 | 89661-0CU90 | | |
| 89661-0CV02 | 89661-0CV03 | | |
| 89661-0CV01 | | | |
| 89661-0CV00 | | | |
| 89661-0CV12 | 89661-0CV13 | | |
| 89661-0CV11 | | | |
| 89661-0CV10 | | | |
| 89661-0CV20 | 89661-0CV20 | | |
| 89661-0CV20 | 89661-0CV20 | | |

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* | DCA-8000P I | 1 |

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 (USA) or 01-800-504-5330 (Mexico) 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 2024.03.004.02 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) 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 | ENGINE | CALIBRATION ID | |
|--------------|------------------------------|----------------|------------------------------|
| | | PREVIOUS | NEW |
| Sequoia HV | V35A-FTS | 896630CS4200 | 896630CS4300 |
| | | 896630CS4100 | |
| | | 896630CS4000 | |
| | | 896630CS4201 | 896630CS4301 |
| | | 896630CS4101 | |
| | | 896630CS4001 | |
| | | 896630CS5200 | 896630CS5300 |
| | | 896630CS5100 | |
| | | 896630CS5000 | |
| | | 896630CS5201 | 896630CS5301 |
| | | 896630CS5101 | |
| | | 896630CS5001 | |
| | | 896630CS6200 | 896630CS6300 |
| | | 896630CS6100 | |
| | | 896630CS6000 | |
| | | 896630CT6201 | 896630CT6301 |
| | | 896630CT6101 | |
| | | 896630CT6001 | |
| | | 896630CT6200 | 896630CT6300 |
| | | 896630CT6100 | |
| | | 896630CT6000 | |
| 896630CS6201 | 896630CS6301 | | |
| 896630CS6101 | | | |
| 896630CS6001 | | | |

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Calibration Information (continued)

| MODEL | ENGINE | CALIBRATION ID | |
|--------------|------------------------------|----------------|------------------------------|
| | | PREVIOUS | NEW |
| Tundra HV | V35A-FTS | 896630CS1300 | 896630CS1400 |
| | | 896630CS1200 | |
| | | 896630CS1100 | |
| | | 896630CS1000 | |
| | | 896630CS1301 | 896630CS1401 |
| | | 896630CS1201 | |
| | | 896630CS1101 | |
| | | 896630CS1001 | |
| | | 896630CS2300 | 896630CS2400 |
| | | 896630CS2200 | |
| | | 896630CS2100 | |
| | | 896630CS2000 | |
| | | 896630CS2301 | 896630CS2401 |
| | | 896630CS2201 | |
| | | 896630CS2101 | |
| | | 896630CS2001 | |
| | | 896630CS3300 | 896630CS3400 |
| | | 896630CS3200 | |
| | | 896630CS3100 | |
| | | 896630CS3000 | |
| 896630CS3301 | 896630CS3401 | | |
| 896630CS3201 | | | |
| 896630CS3101 | | | |
| 896630CS3001 | | | |

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a rattle sound from the hybrid module when the engine is at idle in drive or in reverse once fully warmed up?

- **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 Service Bulletin [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 to confirm the condition has been addressed.

NOTE

After DTCs are cleared, be sure to IG OFF and let vehicle rest for no less than 30 seconds before READY ON.