

Vibration at Idle in Drive

Service Category Engine/Hybrid System

Market USA and Mexico

Section Engine Control

Toyota Supports ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2024 - 2026	GX550	

Introduction

Some 2024 – 2026 model year GX 550 vehicles may exhibit a vibration at idle when in drive. The Engine Control Module (ECM) logic has been modified, in addition to improved exhaust hangers, to help improve this condition. Follow the Repair Procedure in the bulletin to address this condition.

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Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EL2601	Reprogram the Engine Control Module (ECM) and Replace Exhaust Hangers, Un-torque and Re-torque Front Differential	1.0	89666-60X80	02	74

APPLICABLE WARRANTY

- This repair is covered under the Lexus Federal Emissions 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
EL2604	Reprogram the Engine Control Module (ECM) and Replace Exhaust Hangers, Un-torque and Re-torque Front Differential	1.0	89666-60X80	02	74

APPLICABLE WARRANTY

- 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

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
17565-74320	17565-64180	Support, Exhaust Pipe, No.4	1
17565-22040	17565-0P031		1
89666-60X80		Computer, Engine Control	–

*The ECM (PCM) should NOT be replaced as part of the Repair Procedure.

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P-T	1
MSP-070 Power Supply / Charger	MTRMSP0702	1

*Essential SST.

NOTE

- Only ONE of the 12V battery power supply units listed above is required to support reprogramming.
- Additional SSTs may be ordered by calling 1-800-368-6787 (USA), +(525) 5550 10 3000 (Mexico), or by visiting: *Home – Service Resources – Lexus Tools and Equipment Program*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNITECP	1
Techstream Lite		TSLP3DLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ software version 2026.01.003.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 (USA) or +(525) 5550 10 3000 (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	PRODUCTION DATE	CALIBRATION ID		FILE NAME – SIZE
		PREVIOUS	NEW	
GX 550	02/2024 – 10/2024	8A2226025200 8A2226025300	8A2226025400	L-0020-26.cuw – 16.52 MB
	10/2024 – Current	8A2226078000	8A2226078100	L-0021-26.cuw – 16.52 MB

Repair Procedure

1. Confirm the condition exists.
Does the vehicle exhibit a vibration (felt in seat, steering wheel, and dash board) at idle while at operating temperature and in drive?
 - **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.
3. Flash reprogram the ECM (PCM).

NOTE

- The DCA-8000 Battery Diagnostic Tool MUST be used in ECU Reflash Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- The MSP-070 Power Supply / Charger can be used on either the 13.6V or 14.4V setting to maintain battery voltage while flash reprogramming the vehicle.
- For details on how to use the 12V battery power supply units, refer to the instruction manuals located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

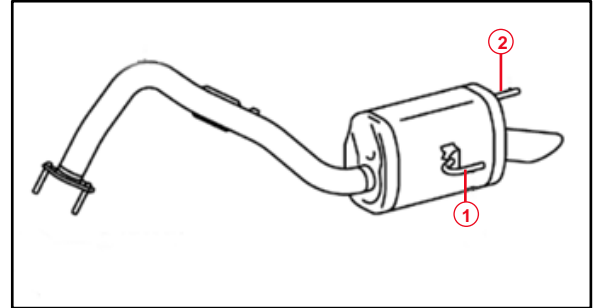
Follow the procedures outlined in Service Bulletin [L-SB-0036-22](#) *GTS+ ECU Flash Reprogramming With Security Signature*, and flash reprogram the ECM (PCM) with the NEW calibration file update.

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Repair Procedure (continued)

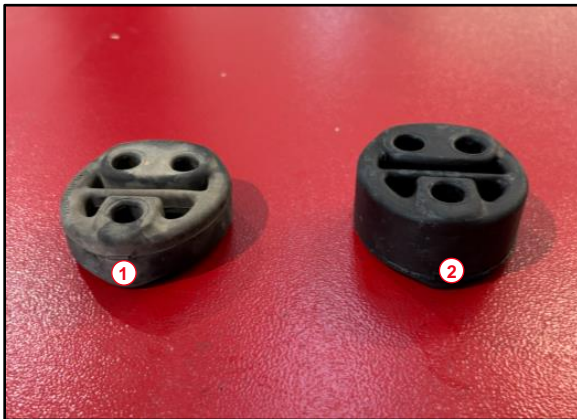
- Replace the exhaust supports on exhaust hangers three and four found in Figure 1.

Figure 1.



1	Hanger 3
2	Hanger 4

Figure 2. Exhaust Support Hanger 3



1	Original Exhaust Pipe Support (17565-74320)
2	Countermeasure Exhaust Pipe Support (17565-64180)

Figure 3. Exhaust Support Hanger 4



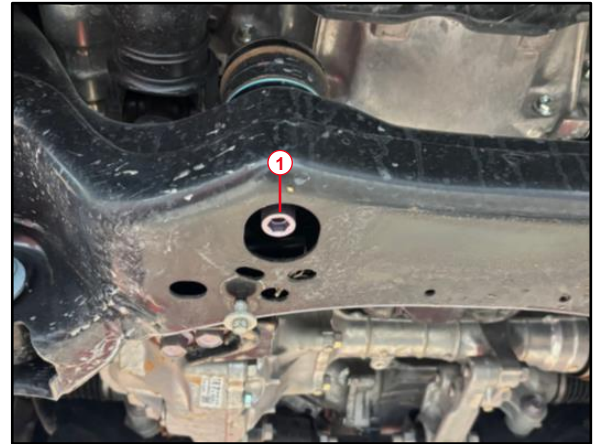
1	Original Exhaust Pipe Support (17565-22040)
2	Countermeasure Exhaust Pipe Support (17565-22030)

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Repair Procedure (continued)

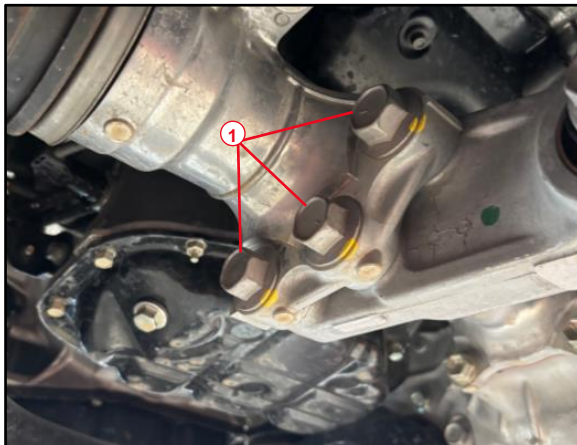
5. Loosen the front differential support points, as shown in Figure 4, Figure 5, and Figure 6.

Figure 4. Rear Mount



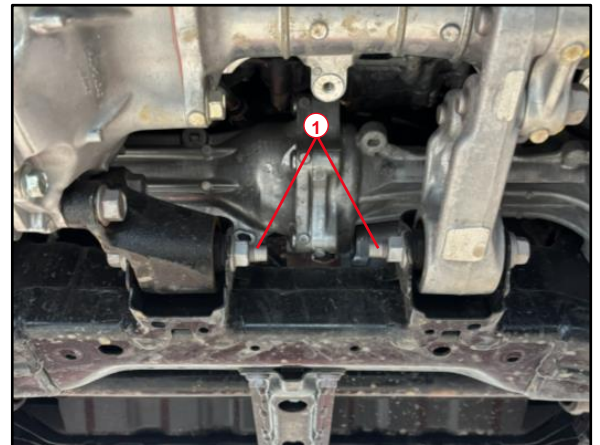
1	Support Bolt
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Figure 5. Front Right-hand Mount



1	Support Bolts
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Figure 6. Front Mount



1	Support Bolts
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Repair Procedure (continued)

6. Rotate/move the front differential to ensure proper settling, as shown in this [Example Video](#).

7. Re-torque differential support bolts using proper torque specifications found in Repair Manual.
 - [2024 – 2026](#) GX 550:
Drivetrain – Axle and Differential – Front Differential Carrier Assembly – Installation

8. Confirm vibration at idle condition has improved.