

MIL ON With P030000, P030027, and/or P030085

Service Category Engine/Hybrid System

Section Engine Control

Market USA and Mexico

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2022 - 2024	LX600	

Introduction

Some 2022 – 2024 model year LX 600 vehicles may exhibit a MIL ON condition with one or more of the following Diagnostic Trouble Codes (DTCs) present:

- P030000 – Random/Multiple Cylinder Misfire Detected
- P030027 – Random/Multiple Cylinder Misfire Detected (Emission) Signal Rate of Change Above Threshold
- P030085 – Random/Multiple Cylinder Misfire Detected (Over Temperature) Signal Above Allowable Range

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 the condition.

Production Change Information

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

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
LX 600	JTJ#B#CX#R4047265

MIL ON With P030000, P030027, and/or P030085

Warranty Information

For USA Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2432	Reprogram the ECM (PCM)	0.7	89666-60###*	8A	74

*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.

For Mexico Market

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EL2432	Reprogram the ECM (PCM)	0.7	89666-60###*	8A	74

*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 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.

Parts Information

PART NUMBER	PART NAME	QTY
89666-60###	Computer, Engine Control (ECM/PCM)	—

NOTE

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

MIL ON With P030000, P030027, and/or P030085

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P T	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 – 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 2024.04.004.02 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.

Calibration Information

MODEL	MODEL YEAR	CALIBRATION ID	
		PREVIOUS	NEW
LX 600	2022 – 2024	896636A13000 896636A13100 896636AK3000 896636A13200	896636AK3100

MIL ON With P030000, P030027, and/or P030085

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with ANY of the following DTC(s)?

- P030000 – Random/Multiple Cylinder Misfire Detected
- P030027 – Random/Multiple Cylinder Misfire Detected (Emission) Signal Rate of Change Above Threshold
- P030085 – Random/Multiple Cylinder Misfire Detected (Over Temperature) Signal Above Allowable Range
- **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 [L-SB-0036-22](#), *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.