

ECM Calibration: Transmission Software Enhancements

Service Category Drivetrain

Section Automatic Transmission/Transaxle

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	LX570	

REVISION NOTICE

July 13, 2017 Rev1:

- Applicability has been updated to include 2017 model year LX 570 vehicles.
- The entire bulletin has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2016 – 2017 model year LX 570 vehicles may exhibit one or more of the following conditions:

- Harsh shift on hard acceleration.
- The vehicle has run out of fuel. After refueling, the vehicle does not creep, or has a delayed/harsh transmission engagement.
- Shift shock 1st to 2nd gear when the water temperature is below 140° F.

The Engine Control Module (ECM, SAE term: Powertrain Control Module/PCM) has been revised. Use the following Repair Procedure to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1638	Reprogram ECM (PCM) Engine and Initialize Transmission	0.7	89530-60513	04	99

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.

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Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
89530-60510	89530-60514	Computer Assy, Transmission Control	-
89530-60511			
89530-60512			
89530-60513			
00451-00001-LBL		Authorized Modification Labels	1

NOTE

- The ECM (PCM) should NOT be replaced as part of the Repair Procedure.
- Authorized Modification Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Parts – Dealer Support Material Order*.

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 12.10.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

* Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

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Calibration Information

MODEL	ENGINE	CALIBRATION ID	
		PREVIOUS	NEW
LX 570	3UR	895366011000	895366011400
		895366011100	
		895366011200	
		895366011300	

Repair Procedure

1. Does the vehicle exhibit one or more of the following conditions?
 - A. A harsh shift on hard acceleration.
 - B. The vehicle has run out of fuel. After refueling, the vehicle does NOT creep, or has a delayed/harsh transmission engagement.
 - C. Shift shock 1st to 2nd gear when the water temperature is below 140° F.
 - **YES** — Continue to Step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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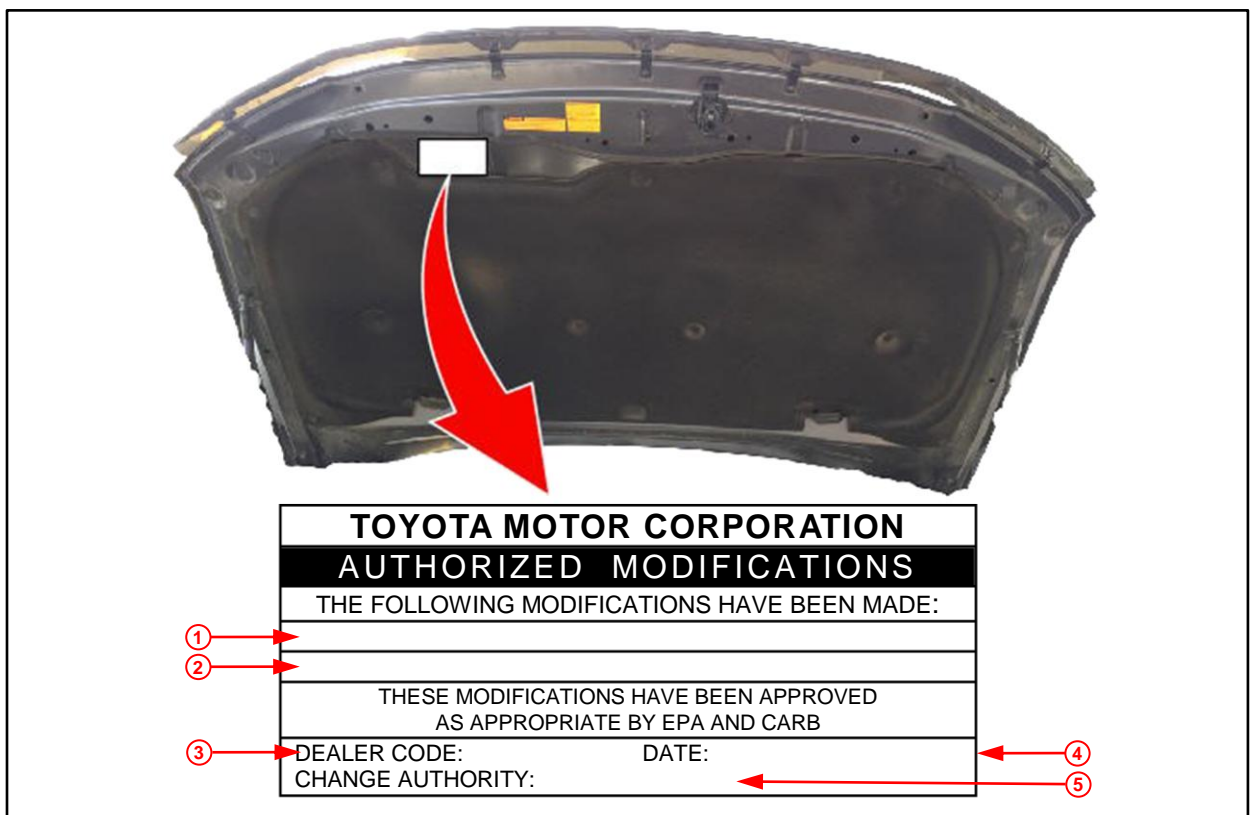
Repair Procedure (Continued)

- Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the ECM (PCM) calibration has been updated.

Is the calibration ID listed the latest ECM (PCM) calibration?

- NO** — Continue to Step 3.
- YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Location of Authorized Modification Label for 2016 – 2017 LX 570



1	Replacement ECM (PCM) Part Number (i.e., 89530-60512)
2	New Calibration ID (895366011200)
3	Dealer Code

4	Date Completed
5	This SB Number

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Repair Procedure (Continued)

3. Flash reprogram the ECM (PCM).

NOTE

- The GR8 Battery Diagnostic Station **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 GR8 Battery Diagnostic Station, refer to the [“GR8 Instruction Manual”](#) located on the Technical Information System (TIS), *Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin No. [L-SB-0021-14](#) “Techstream ECU Flash Reprogramming Procedure” and flash the ECM (PCM) with the NEW calibration file update.

4. Prepare and install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM part number [Refer to the **Parts Information** section for the **NEW PART NUMBER**]
 - Calibration ID(s) [Refer to the **Calibration Information** section for the **NEW CALIBRATION ID**]
 - Dealer Code
 - Repair Date
 - Change Authority [**This bulletin number**]
 - B. Install the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Perform transmission initialization.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

 - 2016 – 2017 LX 570:

Drivetrain – Automatic Transmission/Transaxle – “AE80F Automatic Transmission/Transaxle: Automatic Transmission System: [Initialization](#)”

NOTE

Initialization (Reset Memory) MUST be completed for proper vehicle operation.

6. Start the engine and warm it up to normal operating temperature and test drive to confirm proper vehicle operation.