

# Transmission Drivability Concerns

**Service Category** Drivetrain

**Section** Automatic Transmission/Transaxle

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018 - 2019	LS500	

### REVISION NOTICE

**April 8, 2019 Rev1:**

- **Applicability has been updated to include 2019 model year LS500 vehicles.**
- **The entire bulletin has been updated.**

**Any previous printed versions of this bulletin should be discarded.**

## Introduction

Some 2018 – 2019 model year LS500 vehicles may exhibit one or both of the following transmission-related conditions:

- R to D shift delay when vehicle is cold
- Shift bump when slowing to a stop

The Engine Control Module/ECM (SAE Term: Powertrain Control Module/PCM) logic has been revised to address these conditions. Follow the Repair Procedure in this bulletin to address these conditions.

## Transmission Drivability Concerns

### Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1818	Reprogram ECM (PCM)	0.4	89661-50S31 89661-50S91 89661-50J61 89661-50V01	99	74

#### 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.

### Production Change Information

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

MODEL	MODEL YEAR	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
LS500	2019	2WD	JTHB51FF#K5007988
		4WD	JTHC51FF#K5005999

### Parts Information

MODEL YEAR	DRIVETRAIN	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
2018	2WD	89661-50S31	89661-50S32	Computer, Engine Control (ECM/PCM)	-
	4WD	89661-50S91	89661-50S92		
2019	2WD	89661-50J60	89661-50J61		
	4WD	89661-50V00	89661-50V01		
-	-	00451-00001-LBL		Authorized Modifications Labels	1

#### NOTE

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

## Transmission Drivability Concerns

### Required Tools & Equipment

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

\*Essential SST.

**NOTE**

- Only ONE of the Techstream units listed above is required.
- Software version 14.00.019 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- 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
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	1

\*Essential SST.

**NOTE**

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

## Transmission Drivability Concerns

### Calibration Information

MODEL	MODEL YEAR	DRIVETRAIN	ECU TYPE	CALIBRATION ID	
				PREVIOUS	NEW
LS500	2018	2WD	Main	8966350K6000 8966350K6100	<a href="#">8966350K6200</a>
			Sub	896655065000 896655065100	<a href="#">896655065200</a>
			ECT	8966A5005000 8966A5005100	<a href="#">8966A5005200</a>
		4WD	Main	8966350L2000 8966350L2100	<a href="#">8966350L2200</a>
			Sub	896655071000 896655071100	<a href="#">896655071200</a>
			ECT	8966A5011000 8966A5011100	<a href="#">8966A5011200</a>
	2019	2WD	Main	896635022000	<a href="#">896635022100</a>
			Sub	896655082000	<a href="#">896655082100</a>
			ECT	8966A5016000	<a href="#">8966A5016100</a>
		4WD	Main	896635064000	<a href="#">896635064100</a>
			Sub	896655083000	<a href="#">896655083100</a>
			ECT	8966A5017000	<a href="#">8966A5017100</a>

### Repair Procedure

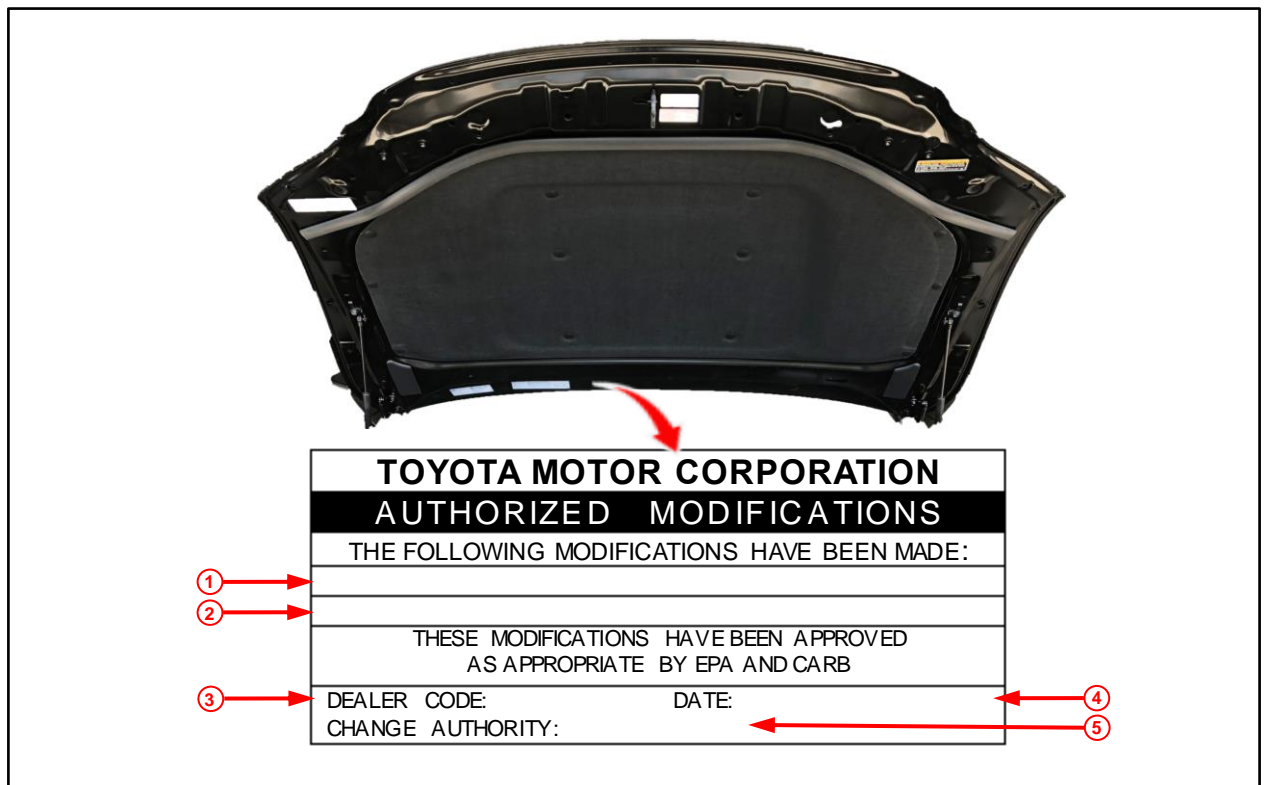
1. Confirm the condition(s) exists.  
Does the vehicle exhibit ANY of the conditions listed in the Introduction?
  - **YES** — Continue to step 2.
  - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

## Transmission Drivability Concerns

### Repair Procedure (continued)

2. Use Techstream to confirm if the ECM (PCM) calibration has been updated and check for the Authorized Modifications Label affixed to the vehicle in the location shown below.  
Is the calibration ID listed in Techstream and on the label the latest ECM (PCM) calibration?
  - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  - **NO** — Continue to step 3.

**Figure 1. Location of Authorized Modifications Label for 2018 – 2019 LS500**



<b>1</b>	<b>Replacement ECM (PCM) Part Number (e.g., 89661-50S32)</b>
<b>2</b>	<b>New Calibration ID (e.g., 8966350K6200)</b>
<b>3</b>	<b>Dealer Code</b>

<b>4</b>	<b>Completed Date</b>
<b>5</b>	<b>This SB Number</b>

## Transmission Drivability Concerns

---

### 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 at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [T-SB-0134-16](#), *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 on the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

5. Start the engine and warm it up to normal operating temperature.

6. Test-drive the vehicle to confirm proper operation.