

# ECM Calibration: Hesitation Concerns

**Service Category** Engine/Hybrid System

**Section** Engine Control

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	RX350	

## Introduction

Some 2016 – 2017 model year RX 350 vehicles may exhibit a hesitation in one or more of the following conditions:

- Accelerating from a stop.
- Passing during freeway/city driving.
- Low speed reacceleration.

The Engine Control Module (ECM, SAE term: Powertrain Control Module/PCM) calibration has been revised to address these conditions.

## Production Change Information

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

WMI	DRIVETRAIN	TRIM	PRODUCTION CHANGE EFFECTIVE VIN
2T2	2WD	Non F Sport	2T2ZZMCA#HC039578
		F Sport	2T2ZZMCA#HC040068
	4WD	Non F Sport	2T2BZMCA#HC060399
		F Sport	2T2BZMCA#HC060921
JTD	4WD	Non F Sport	JTJBZMCA#H2015162

## ECM Calibration: Hesitation Concerns

### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1637	Reprogram ECM (PCM) Engine	0.4	89661-0E760 89661-0E761 89661-0EA40 89661-0E810 89661-0E811 89661-0E770 89661-0E771 89661-48N70 89661-48N71	26	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.

### Parts Information

WMI	DRIVETRAIN	TRIM	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
2T2	2WD	Non F Sport	89661-0E760 89661-0E761	89661-0E762	Computer, Engine Control (ECM/PCM)	-
		F Sport	89661-0EA40	89661-0EA41		
	4WD	Non F Sport	89661-0E810 89661-0E811	89661-0E812		
		F Sport	89661-0E770 89661-0E771	89661-0E772		
JTD	4WD	Non F Sport	89661-48N70 89661-48N71	89661-48N72		
-	-	-	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*.


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### 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 11.30.137 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming. Please 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

**NOTE**

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

\* Essential SST.

### Calibration Information

WMI	DRIVETRAIN	TRIM	CALIBRATION ID	
			PREVIOUS	NEW
2T2	2WD	Non F Sport	896630E36100 896630E36200	<a href="#">896630E36300</a>
		F Sport	896630E54000	<a href="#">896630E54100</a>
	4WD	Non F Sport	896630E41000 896630E41100	<a href="#">896630E41200</a>
		F Sport	896630E37100 896630E37200	<a href="#">896630E37300</a>
JTD	4WD	Non F Sport	896630E41000 896630E41100	<a href="#">896630E41200</a>

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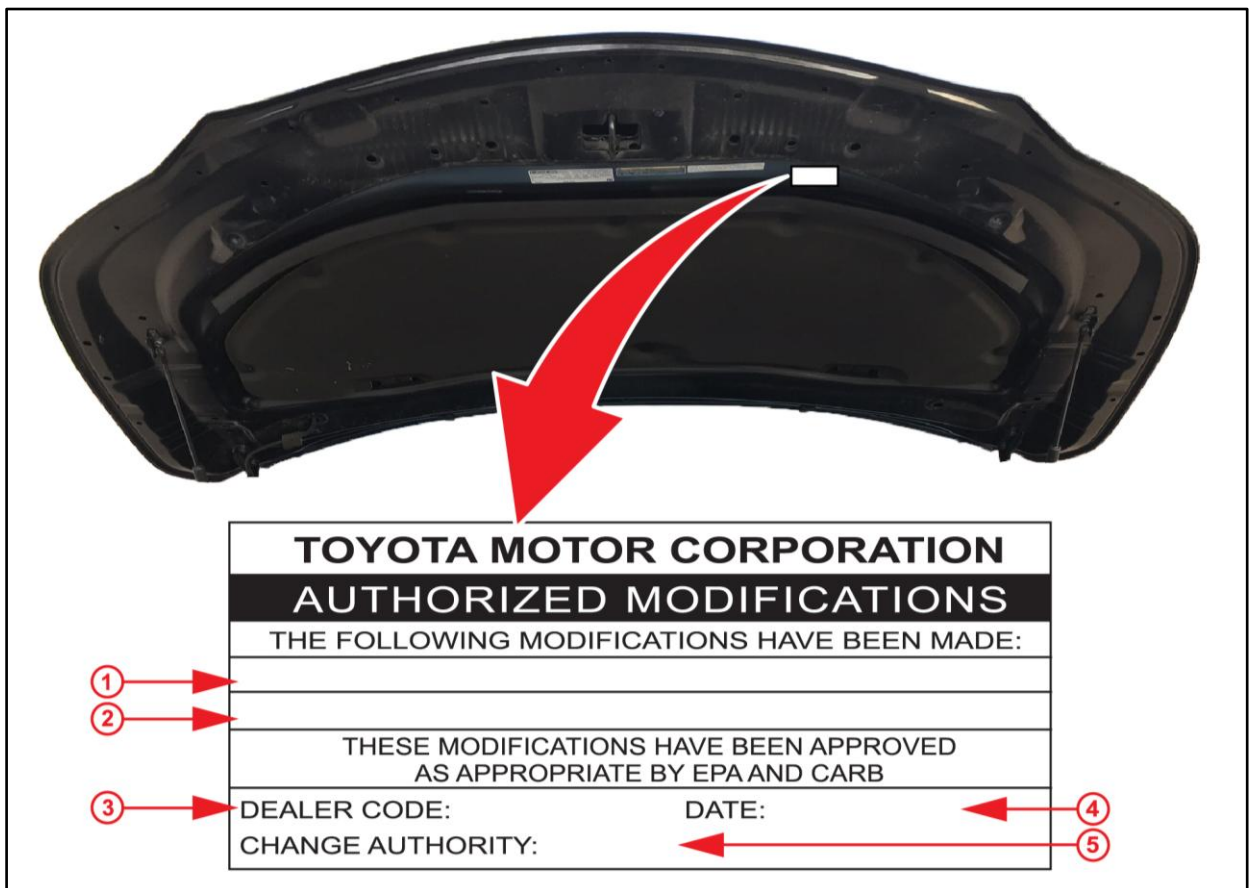
### Repair Procedure

1. Does the vehicle exhibit standing start hesitation, passing hesitation during freeway/city driving and/or low speed area reacceleration hesitation?
  - **YES** – Continue to step 2.
  - **NO** – This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. 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 NOT the latest ECM (PCM) calibration?

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

**Figure 1. Location of Authorized Modifications Label on 2016 – 2017 RX 350**



<b>1</b>	Replacement ECM (PCM) Part Number (i.e., 89661-0E762)
<b>2</b>	New Calibration ID (i.e., 89663-0E363)
<b>3</b>	Dealer Code

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

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### Repair Procedure (Continued)

- Flash reprogram the ECM (PCM).

**NOTE**

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5 volts 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 the Service Bulletin [L-SB-0021-14](#), “Techstream ECU Flash Reprogramming Procedure”, and flash the ECM (PCM) with the NEW calibration file update.

**NOTE**

Certain options may become unavailable during software update. Perform a 12V battery reset on the vehicle after software update.

- Prepare and install the Authorized Modifications Label.
  - 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***]
    - Dealer Code
    - Repair Date
    - Change Authority [**This bulletin number**]
  - 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.
- Start the engine and warm it up to normal operating temperature and test drive to confirm proper vehicle operation.