

ECM Calibration: Hesitation Concerns

Service
Category Engine/Hybrid System

Section Engine Control

Market Canada

APPLICABILITY:

| YEAR(S) | MODEL(S) |
|-------------|----------|
| 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 TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

| WMI | DRIVETRAIN | TRIM | PRODUCTION CHANGE EFFECTIVE VIN |
|-----|------------|-------------|---------------------------------|
| 2T2 | 4WD | Non F Sport | 2T2BZMCA#HC060399 |
| | | F Sport | 2T2BZMCA#HC060921 |

**ECM Calibration: Hesitation Concerns****WARRANTY INFORMATION:**

| OP CODE | DESCRIPTION | TIME | OFF | CLAIM TYPE | T1 | T2 |
|---------|----------------------------|------|---|------------|----|----|
| EE1702 | Reprogram ECM (PCM) Engine | 0.4 | 89661-0E760 89661-0E761 89661-0EA40 89661-0E810 89661-0E811 89661-0E770 89661-0E771 89661-48N70 89661-48N71 | VE | 26 | 99 |

APPLICABLE WARRANTY

- This repair is covered under the Lexus Major Emission Warranty. This warranty is in effect for 96 months or 130,000 kilometres, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.


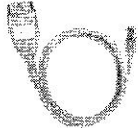

PARTS INFORMATION:

| WMI | DRIVETRAIN | TRIM | PART NUMBER | | PART NAME | QTY |
|-----|------------|-------------|----------------------------|-------------|------------------------------------|-----|
| | | | PREVIOUS | NEW | | |
| 2T2 | 4WD | Non F Sport | 89661-0E810 89661-0E811 | 89661-0E812 | Computer, Engine Control (ECM/PCM) | - |
| | | F Sport | 89661-0E770 89661-0E771 | 89661-0E772 | | |
| - | - | - | 00451-00001-25 | | 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 your facing PDC.

**ECM Calibration: Hesitation Concerns****REQUIRED TOOLS & EQUIPMENT:**

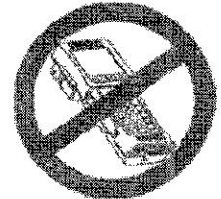
| ITEM NO. | SPECIAL SERVICE TOOLS (SST) | MANUFACTURER | QTY |
|----------|--|--|-----|
| 1 | Techstream/Techstream 2.0* Or Techstream Lite** NOTE: Software version 11.30.137 or later is required. |  Snap-On | 1 |
| | |  Drew Technologies | 1 |
| 2 | GR8 Battery Diagnostic Station* p/n GR8C P  | SPX/OTC | 1 |

* Essential SST

** Refers to the Mongoose VIM in combination with a PC.

NOTE:

- The Diagnostic Tester (TDT) or Techstream LITE is NOT recommended for flash reprogramming with this calibration file.
- To order additional Techstream units, please go to TIS > Diagnostics > Scantool.
- Minimum PC requirements for Techstream Lite can be found on TIS > Diagnostics > Scantool > Techstream Reference Documents.
- The GR8 Battery Diagnostic Station (P/N GR8C P) supersedes the Hand Held Battery Tester (P/N J-44350) and Automatic Trickle Charger (P/N CXC 2815) which are now obsolete.
- Additional SSTs may be ordered by calling Bosch Automotive Service Solutions at 1-800-933-8335.

**CALIBRATION INFORMATION:**

| WMI | DRIVETRAIN | TRIM | PART NUMBER | |
|-----|------------|-------------|------------------------------|--------------|
| | | | PREVIOUS | NEW |
| 2T2 | 4WD | Non F Sport | 896630E41000 896630E41100 | 896630E41200 |
| | | F Sport | 896630E37100 896630E37200 | 896630E37300 |



ECM Calibration: Hesitation Concerns

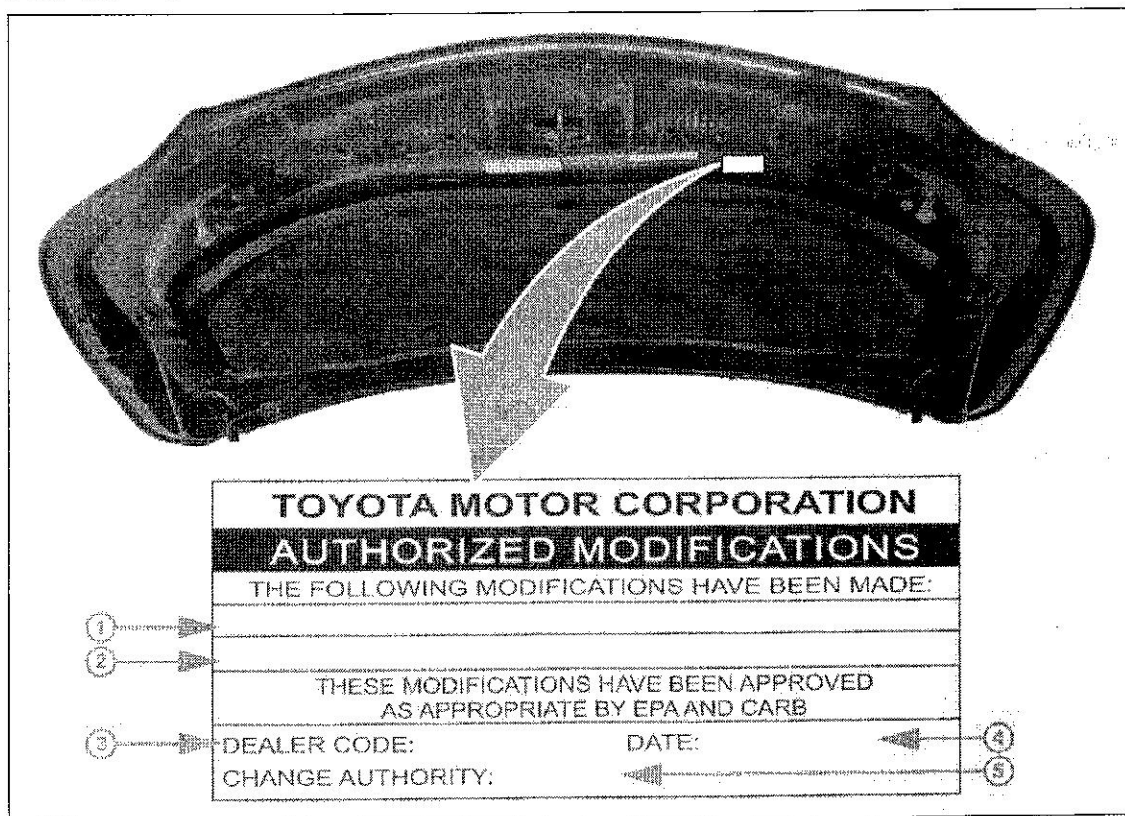
REPAIR PROCEDURE:

1. Does the vehicle exhibit standing start hesitation, passing hesitation during freeway/city driving and/or low speed area reacceleration hesitation?
 - **YES** – Go 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** – Go to step 3.
- **NO** – This Service Bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Location of Authorized Modification Label for 2016 – 2017 RX 350



| | |
|---|---|
| 1 | Replacement ECM (PCM) Part Number (i.e., 89661-0E762) |
| 2 | New Calibration ID (i.e., 89663-0E363) |

| | |
|---|-----------------|
| 3 | Dealer Code |
| 4 | Date Completed |
| 5 | This TSB Number |



ECM Calibration: Hesitation Concerns

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 Battery Diagnostic Station Instruction Manual located on TIS: Diagnostics > Tools & Equipment > Battery Diagnostics.

Follow the procedures outlined in TSB L-TCI-3746, "Techstream ECU Flash Reprogramming Procedure", and flash the ECM (PCM) with the NEW calibration file update.

- Perform a 12V battery reset on the vehicle after software update.

NOTE

This step is important as certain options may become unavailable during software update.

- 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** chart for the **NEW CALIBRATION ID**]
- Dealer Code
- Repair Date
- Change Authority [**This TSB number**]

B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through your facing PDC, P/N 00451-00001-25.

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

NOTE:

Issue of this Technical Service Bulletin is to ensure that proper repair information is available. IT DOES NOT CONSTITUTE AN AUTHORIZATION FOR REPAIR. Normal provisions of the formal warranty policy, as applicable, will apply.