

MIL ON With DTC P01201C

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018 - 2019	RX350	VDS(s): BZMCA, DZKCA, GZKCA, ZZMCA Engine(s): 2GR

Introduction

Some 2018 – 2019 model year RX350 and RX350L vehicles may exhibit a MIL ON condition with DTC P01201C (Throttle / Pedal Position Sensor / Switch “A” Circuit Voltage Out of Range) occurring within 5 seconds of engine start time.

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

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Warranty Information

OP CODE	DESCRIPTION	TIME	MODEL NAME	MODEL YEAR	WMI	DRIVETRAIN	OFP	T1	T2
800269	Engine ECU Reprogramming (per FRM)	0.7	RX350	2018 – 2019	2T2	2WD Non F-Sport	89661-0EE8#	8A	74
						2WD F-Sport	89661-0EF0#		
						4WD Non F-Sport	89661-0EE9#		
						4WD F-Sport	89661-0EF1#		
			JTJ		4WD Non F-Sport	89661-48X0#			
					2WD	89661-48X1#			
					4WD	89661-48X2#			
	RX350L								

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

MODEL NAME	MODEL YEAR	WMI	DRIVETRAIN	PART NUMBER		PART NAME	QTY
				PREVIOUS	NEW		
RX350	2018 – 2019	2T2	2WD Non F-Sport	89661-0EE8#	89661-0EE82	Computer, Engine Control (ECM)	–
			2WD F-Sport	89661-0EF0#	89661-0EF02		
			4WD Non F-Sport	89661-0EE9#	89661-0EE92		
			4WD F-Sport	89661-0EF1#	89661-0EF12		
RX350L		JTJ	4WD Non F-Sport	89661-48X0#	89661-48X02	Computer, Engine Control (ECM)	
			2WD	89661-48X1#	89661-48X12		
			4WD	89661-48X2#	89661-48X22		
–				00451-00001-LBL		Authorized Modifications Labels	

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Required Tools & Equipment

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.
- Software version 14.20.019 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 for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool	DCA-8000P T	1

*Essential SST.

NOTE

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

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Calibration Information

MODEL	MODEL YEAR	WMI	DRIVETRAIN	CALIBRATION ID	
				PREVIOUS	NEW
RX350	2018 – 2019	2T2	2WD Non F-Sport	896630E58000 896630EA3000 896630EA3100 896630EA3200	896630EA3300 / 896650E48300
				896650E24000 896650E48000 896650E48100 896650E48200	
			2WD F-Sport	896630E59000 896630EA5000 896630EA5100 896630EA5200	896630EA5300 / 896650E48300
				896650E24000 896650E48000 896650E48100 896650E48200	
			4WD Non F-Sport	896630E60000 896630EA4000 896630EA4100 896630EA4200	896630EA4300 / 896650E48300
				896650E24000 896650E48000 896650E48100 896650E48200	
			4WD F-Sport	896630E61000 896630EA6000 896630EA6100 896630EA6200	896630EA6300 / 896650E48300
				896650E24000 896650E48000 896650E48100 896650E48200	

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Calibration Information (continued)

MODEL	MODEL YEAR	WMI	DRIVETRAIN	CALIBRATION ID	
				PREVIOUS	NEW
RX350	2018 – 2019	JTJ	4WD Non F-Sport	896630E60000 896630EA4000 896630EA4100 896630EA4200	896630EA4300 / 896650E48300
896650E24000 896650E48000 896650E48100 896650E48200					
RX350L			2WD	8966348S6000 8966348W1000 8966348W1100 8966348W1200	8966348W1300 / 896654852300
				896654843000 896654852000 896654852100 896654852200	
			4WD	8966348S7000 8966348W2000 8966348W2100 8966348W2200	8966348W2300 / 896654852300
				896654843000 896654852000 896654852100 896654852200	

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Repair Procedure

1. Confirm the condition exists.
Is there a MIL ON with DTC P01201C within 5 seconds of engine start time?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
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 on 2016 – 2019 RX350 and RX350L



1	Replacement ECM (PCM) Part Number (e.g., 89661-0EE82)
2	New Calibration ID (e.g., 896630EA3300)
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 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 tool, refer to the [DCA-8000 Instruction Manual](#) located at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [L-SB-0001-18](#), *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 (PCM) 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 onto the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
5. Test-drive the vehicle to confirm proper operation.