

MIL ON DTC P07457F - Harsh Engagement Into Drive

Service Category Drivetrain

Section Automatic Transmission/Transaxle

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2019	RX350	Transmission(s): 8AT

Introduction

Some 2019 model year RX350 vehicles may exhibit a MIL ON condition with Diagnostic Trouble Code (DTC) P07457F (Pressure Control Solenoid "A" Actuator Stuck Off) and/or harsh engagement when shifting into Drive. The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been updated to prevent this condition. Follow the Repair Procedure in this bulletin to address this condition.

Production Change Information

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

MODEL	PLANT (WMI)	TRIM	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
RX350	TMMC (2T2)	Non F-Sport	2WD	2T2ZZMCA#KC132132
			AWD	2T2BZMCA#KC185101
		F-Sport	2WD	2T2ZZMCA#KC133323
			AWD	2T2BZMCA#KC185223
RX350L	TMK (JTJ)	Non F-Sport	2WD	JTJDGKCA#K2007519
			AWD	JTJGZKCA#K2010785
				JTJDZKCA#K2017372

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1902	Reprogram ECM (PCM) Engine	0.4	89661-#####	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.

Parts Information

MODEL	PLANT (WMI)	TRIM	DRIVETRAIN	PART NUMBER		PART NAME	QTY
				PREVIOUS	NEW		
RX350	TMMC (2T2)	Non F-Sport	2WD	89661-0EB20 89661-0EE80	89661-0EE81	Computer, Engine Control (ECM/PCM)	-
			AWD	89661-0EB40 89661-0EE90	89661-0EE91		
		F-Sport	2WD	89661-0EB30 89661-0EF00	89661-0EF01		
			AWD	89661-0EB50 89661-0EF10	89661-0EF11		
RX350L	TMK (JTJ)	Non F-Sport	2WD	89661-48V20 89661-48X00	89661-48X01		
			AWD	89661-48U00 89661-48X10	89661-48X11		
				89661-48U10 89661-48X20	89661-48X21		
All	-	-	-	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*.

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Required Tools & Equipment

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.

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 13.30.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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Calibration Information

MODEL	PLANT (WMI)	TRIM	DRIVETRAIN	ECU TYPE	CALIBRATION ID	
					PREVIOUS	NEW
RX350	TMMC (2T2)	Non F-Sport	2WD	Main	896630E58000 896630EA3000	896630EA3100
				Sub	896650E24000 896650E48000	896650E48100
			AWD	Main	896630E60000 896630EA4000	896630EA4100
				Sub	896650E24000 896650E48000	896650E48100
		F-Sport	2WD	Main	896630E59000 896630EA5000	896630EA5100
				Sub	896650E24000 896650E48000	896650E48100
			AWD	Main	896630E61000 896630EA6000	896630EA6100
				Sub	896650E24000 896650E48000	896650E48100
	TMK (JTJ)	Non F-Sport	AWD	Main	896630E60000 896630EA4000	896630EA4100
				Sub	896650E24000 896650E48000	896650E48100
			2WD	Main	8966348S6000 8966348W1000	8966348W1100
				Sub	896654843000 896654852000	896654852100
AWD	Main		8966348S7000 8966348W2000	8966348W2100		
	Sub		896654843000 896654852000	896654852100		

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Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit DTC P07457F (Pressure Control Solenoid “A” Actuator Stuck Off) and/or harsh engagement when shifting into Drive?

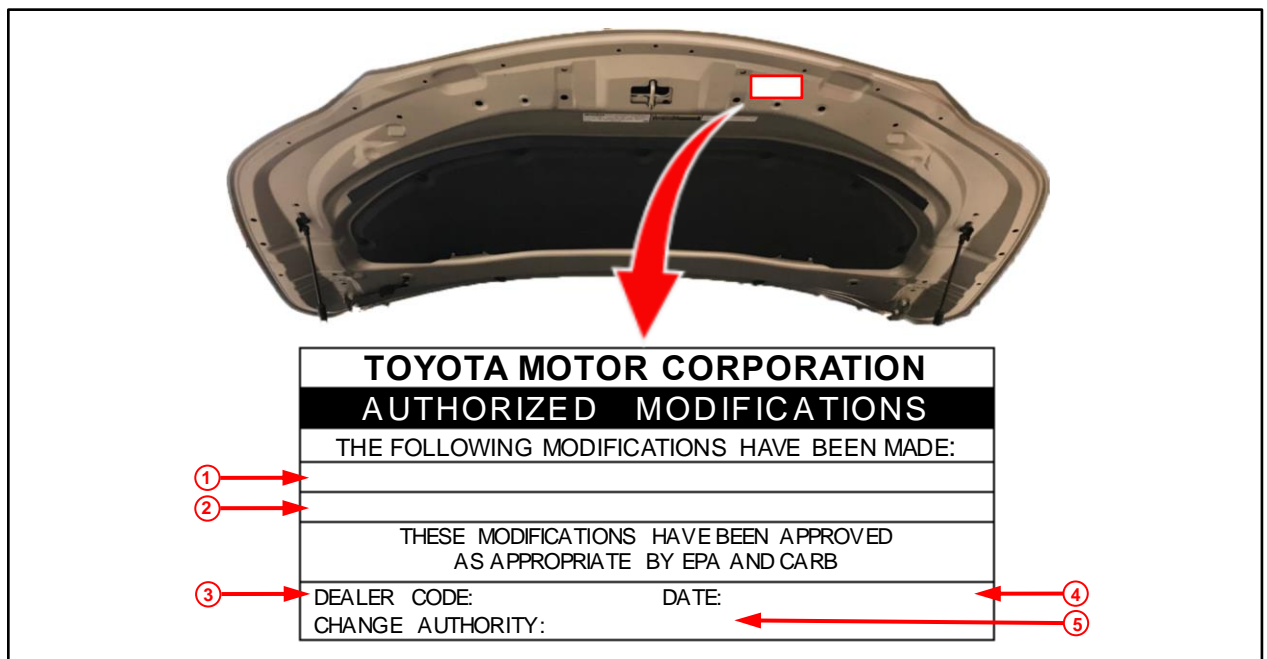
- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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 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 2019 RX350



1	Replacement ECM (PCM) Part Number (e.g., 89661-0EE81)
2	New Calibration ID (e.g., 896630EA3100)
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 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.

NOTE

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

6. If ANY conditions remain, continue with normal diagnosis.