

Service

Category Vehicle Interior

Section	Meter/Gauge/Display	Market USA	Lexus Supports ASE Certification
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Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2019	RX450H	

Introduction

Some 2016 – 2019 model year RX450h and 2018 – 2019 model year RX450hL vehicles may exhibit a MIL ON condition with one or more of the following Diagnostic Trouble Codes (DTCs):

- P0301 Cylinder 1 Misfire Detected
- P0302 Cylinder 2 Misfire Detected
- P0303 Cylinder 3 Misfire Detected
- P0304 Cylinder 4 Misfire Detected
- P0305 Cylinder 5 Misfire Detected
- P0306 Cylinder 6 Misfire Detected

Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1915	Engine ECM Reprogramming and R & R Ignition Coil	2.8	89661-#####	8A	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

PART N	UMBER	PART NAME	
PREVIOUS	NEW	PARTNAME	QTY
90919-02280 90919-A2013		Coil Assy, Ignition	1
89661-#####		Computer, Engine Control	_
00451-00001-LBL		51-00001-LBL Authorized Modification Labels	

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY	
Techstream ADVi*		TSADVUNIT		
Techstream 2.0		TS2UNIT	1	
Techstream Lite	ADE	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 <u>techinfo.toyota.com</u> for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool*	<u>DCA-8000P T</u>	1

*Essential SST.

NOTE

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

Calibration Information

YEAR	MODEL ENGINE	CALIBRATION ID		
TEAR		ENGINE	PREVIOUS	NEW
2016	PY 450b	RX450h 2GR-FXS RX450hL	348Q4000 348Q4100 348Q4200 348Q4300	<u>348Q4400</u>
2017	KX450N		348N0000 348N0100	<u>348N0200</u>
2018			348V6000 348V6100	<u>348V6200</u>
2010	RX450hL		348T1000 348T1100	<u>348T1200</u>
2019	RX450h		348Z3000	<u>348Z3100</u>
2019	RX450hL		348Z4000	<u>348Z4100</u>

Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit a MIL ON condition with ANY of the DTCs in the introduction present?

- **YES** Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Diagnose the misfire DTC(s).

Refer to TIS, applicable model and model year Repair Manual:

- 2016 2017 RX450h: Engine / Hybrid System – 2GR-FXS (Engine Control): "P0300 – P0306; Random / Multiple Cylinder Misfire Detected"
- 2018 RX450h and RX450hL: Engine / Hybrid System – 2GR-FXS (Engine Control): "P0300 – P0306; Random / Multiple Cylinder Misfire Detected"
- 2019 RX450h and RX450hL: Engine / Hybrid System – 2GR-FXS (Engine Control): "P0300 – P0306; Random / Multiple Cylinder Misfire Detected"

Does the diagnosis indicate a malfunctioning ignition coil?

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

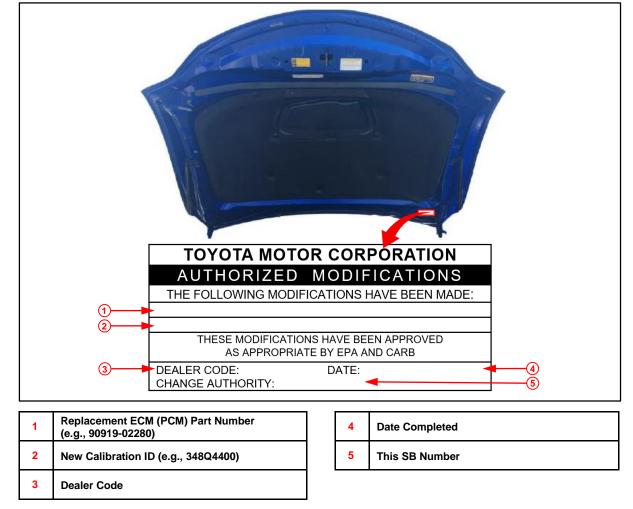
Repair Procedure (continued)

3. 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 4.





Repair Procedure (continued)

4. 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 <u>DCA-8000 Instruction Manual</u> located at TIS – Diagnostics – Tools & Equipment – Battery Diagnostics.
- 5. Follow the procedures outlined in Service Bulletin <u>L-SB-0001-18</u>, *Techstream ECU Flash Reprogramming Procedure,* and flash the ECM (PCM) with the NEW calibration file update.
- 6. 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.
- 7. Replace the ignition coil.
 - A. Remove the subject ignition coil.

Refer to TIS, applicable model and model year Repair Manual.

- 2016 RX450h: Engine / Hybrid System 2GR-FXS (Engine Control): "Ignition Coil and Spark Plug: Removal"
- 2017 2019 RX450h: Engine / Hybrid System 2GR-FXS (Engine Control): "Ignition Coil and Spark Plug: Removal"
- 2018 2019 RX450hL: Engine / Hybrid System 2GR-FXS (Engine Control): "Ignition Coil and Spark Plug: Removal"
- B. Install the NEW ignition coil.

Refer to TIS, applicable model and model year Repair Manual.

- 2016 2019 RX450h and 2018 2019 RX450hL: Engine / Hybrid System 2GR-FXS (Engine Control): "Ignition Coil and Spark Plug: Installation"
- 8. Test-drive the vehicle to confirm proper operation.