

MIL "ON" DTCs P3190 and P0A0F/204

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2013	RX450H	

REVISION NOTICE

March 29, 2013 Rev1:

- Applicability has been updated to include 2012 – 2013 model year vehicles.
- Bulletin has been updated to include replacement of Fuel Tank Solenoid Main Valve Assembly.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2010 - 2013 model year RX 450h vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Codes (DTCs) P3190 and P0A0F with information code 204 present. Refer to the repair procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG9092	R & R Fuel Pump, Filter, Suction Plate, and Fuel Tank Solenoid Main Valve Assembly	1.4	77024-48020	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 48 months or 50,000 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.

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Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
77024-48020	Same	Plate Sub-assembly, Fuel Suction	1
23221-31370	Same	Pump, Fuel	1
23217-31130	23217-31131	Filter, Fuel Pump	1
23239-21010	Same	Seal, Fuel Pump Filter	1
77169-33030	Same	Gasket, Fuel Suction Tube Set	1
77710-48020	77710-48040	Valve Assy, Fuel Tank Solenoid Main	1

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream*		TSPKG1	
Techstream Lite		TSLITEDLR01	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 8.00.034 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

* Essential SST.

Repair Procedure

1. Using Techstream, confirm if DTCs P3190 and P0A0F with information code 204 are present.

NOTE

If other DTCs are present in the Engine or Hybrid system, diagnose those DTCs first as this bulletin might NOT apply.

2. Inspect Freeze Frame Data for DTC P3190 and confirm a lean condition was present when the DTC was detected.

Was a lean condition present when DTC P3190 was detected?

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

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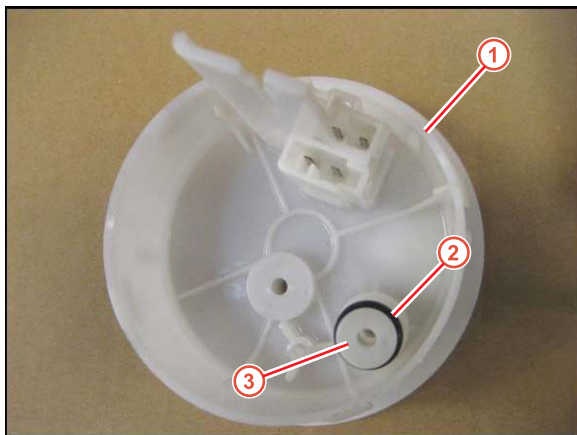
Repair Procedure (Continued)

3. Confirm the fuel pump resistor connector is fully seated.
4. If no concerns are noted with the fuel pump resistor connector or fuel pump circuit, replace the following components:
 - Fuel Pump
 - Fuel Pump Filter
 - Fuel Suction Plate Sub-Assembly
 - Fuel Tank Solenoid Main Valve Assembly

NOTE

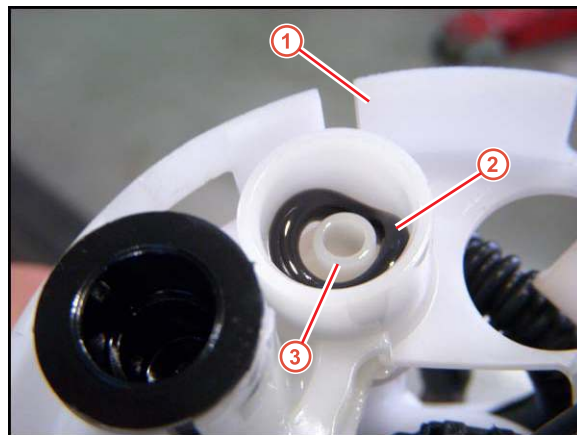
When removing the fuel suction plate sub-assembly, confirm the original fuel pump pressure port O-ring and spacer did not separate from the suction plate and stay in the fuel filter housing assembly. If the O-ring and spacer did separate from the suction plate, remove and discard them prior to installing a new suction plate.

Figure 1. CORRECT: O-ring and Spacer Still Attached to Suction Plate



1	Suction Plate
2	O-ring
3	Spacer

Figure 2. INCORRECT: O-ring and Spacer Present in Fuel Filter Housing Assembly



1	Fuel Filter Housing Assembly
2	O-ring
3	Spacer

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual for component replacement procedures:

- 2010 RX 450h:
 Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Pump:
 Removal [\(to 08/2009\)](#) / [\(from 08/2009\)](#) / Disassembly [\(to 08/2009\)](#) / [\(from 08/2009\)](#) /
 Reassembly [\(to 08/2009\)](#) / [\(from 08/2009\)](#) / Installation [\(to 08/2009\)](#) / [\(from 08/2009\)](#)”

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Repair Procedure (Continued)

- 2010 RX 450h:
Engine/Hybrid System – Emission Control – “2GR-FXE Emission Control: Fuel Vapor Containment Valve: Removal [\(to 08/2009\)](#) / [\(from 08/2009\)](#) / Installation [\(to 08/2009\)](#) / [\(from 08/2009\)](#)”
 - 2011 RX 450h:
Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Pump: [Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
 - 2011 RX 450h:
Engine/Hybrid System – Emission Control – “2GR-FXE Emission Control: Fuel Vapor Containment Valve: [Removal](#) / [Installation](#)”
 - 2012 RX 450h:
Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Pump: [Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
 - 2012 RX 450h:
Engine/Hybrid System – Emission Control – “2GR-FXE Emission Control: Fuel Vapor Containment Valve: [Removal](#) / [Installation](#)”
 - 2013 RX 450h:
Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Pump: [Removal](#) / [Disassembly](#) / [Reassembly](#) / [Installation](#)”
 - 2013 RX 450h:
Engine/Hybrid System – Emission Control – “2GR-FXE Emission Control: Fuel Vapor Containment Valve: [Removal](#) / [Installation](#)”
5. Clear all DTCs and test drive to verify the repair.