


# MIL "ON" DTC P030# and/or Runs Rough on Cold Start

**Service Category** Engine/Hybrid System

**Section** Engine Control

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2012	RX450H	

## Introduction

Some 2010 – 2012 model year RX 450h vehicles may exhibit one or more of the following conditions:

- MIL "ON" with DTC P0300, P0301, P0302, P0303, P0304, P0305, and/or P0306 present
- Rough running on initial start-up after a cold soak

Follow the procedure in this bulletin to address these conditions.

## Warranty Information

OP CODE	DESCRIPTION	TIME	OPF	T1	T2
895221	Replace Fuel Injectors	2.6	23209-31090 23209-0P010	8A	88

### APPLICABLE WARRANTY

- This repair is covered under the Lexus Federal Emission Warranty. This warranty is in effect for 48 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.
- For 2011 – 2012 MY California specification vehicles sold, registered, and operated in Arizona (starting with '12 MY), California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New Mexico ('11 MY only), Oregon, Pennsylvania, Rhode Island, Vermont, and Washington, this repair is covered under the California Long Term Emission Warranty, which is in effect for 84 months or 70,000 miles, whichever occurs first, from the vehicle's in-service date. California specification vehicles shipped to other state's dealers do not assume coverage under the California Emission Warranty.
- Under Federal Emissions Warranty, 2010 MY RX 450h fuel injectors do NOT apply to Long Term Emission Warranty.
- 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
23209-31090	23209-31160	Injector Set, Fuel	6
23209-0P010			
23291-28020	23291-28020	Insulator, Injector Vibration	6
23291-0V020			
25627-31030	Same	Gasket, EGR Valve	1
17179-31010	Same	Gasket, Intake Manifold	1
25629-31030	Same	Gasket, EGR Pipe, No. 2	1
17176-0P021	17176-0P021	Gasket, Air Surge Tank to Intake Manifold	3
17176-31090			

### Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* or Techstream Lite  NOTE: Software version 7.10.030 or later is required.	ADE	TSPKG1 or TSLITEDLR01	1

\* Essential SST.

**NOTE**

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

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### Repair Procedure

1. Confirm the engine runs rough on initial start-up after a cold soak or any of the following DTCs are present:

- P0300 – Random/Multiple Cylinder Misfire Detected
- 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

If other DTCs are present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.

2. Perform misfire diagnosis.

Refer to the Technical Information System (TIS), applicable model year RX 450h Repair Manual:

- [2010 \(to 08/2009\)](#) / [2010 \(from 08/2009\)](#) / [2011](#) / [2012](#) RX 450h:  
*Engine/Hybrid System – Engine Control – “2GR-FXE Engine Control: SFI System: P0300-P0306: Random / Multiple Cylinder Misfire Detected”*

3. If no concerns are noted with the mechanical engine condition, engine control system, ignition system, or fuel supply system, remove the fuel injectors and visually inspect the fuel injector tips for signs of debris.

Is there debris on any of the fuel injector tips?

- **YES** — Replace all six fuel injectors. Go to step 4.
- **NO** — This bulletin does NOT apply.

4. Replace the fuel injectors.

Refer to TIS, applicable model year RX 450h Repair Manual:

- 2010 RX 450h:  
*Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Injector: [Removal \(to 08/2009\)](#) / [Removal \(from 08/2009\)](#) / [Installation \(to 08/2009\)](#) / [Installation \(from 08/2009\)](#)”*
- 2011 RX 450h:  
*Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Injector: [Removal](#) / [Installation](#)”*
- 2012 RX 450h:  
*Engine/Hybrid System – Fuel System – “2GR-FXE Fuel: Fuel Injector: [Removal](#) / [Installation](#)”*

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### Repair Procedure (Continued)

5. Clear all stored DTCs.
6. Start the engine and confirm the repair.