

MIL "ON" DTC P006A - EGR Valve

Service Category Engine/Hybrid System

Section Emission Control

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2014 - 2017	GX460	

REVISION NOTICE

March 8, 2017 Rev2:

- Applicability has been updated to include 2016 – 2017 model year GX 460 vehicles, and the Production Change Information and Repair Procedure sections have been updated.

July 8, 2015 Rev1:

- The Repair Procedure section has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2014 – 2017 model year GX 460 vehicles equipped with the 1UR-FE engine may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P006A (MAP – Mass or Volume Air Flow Correlation Bank 1). Some vehicles may also exhibit a rough running engine and light hesitation under acceleration. The condition may be caused by debris in the EGR assembly. Follow the procedures in this bulletin to address this condition.

Production Change Information

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

MODEL	PLANT	ENGINE	PRODUCTION CHANGE EFFECTIVE VIN
GX 460	Tahara	1UR-FE	JTJMM7FX#H5160120

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Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
178201	R & R EGR Valve Assembly	1.2	25620-38240	8A	99

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.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

PART NUMBER	PART NAME	QTY
25620-38240	Valve Assy, EGR	1
25627-38020	Gasket, EGR Valve	1
25628-38020	Gasket, EGR Inlet	1

Required Tools & Equipment

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 11.30.137 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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Repair Procedure

1. Using Techstream, confirm the following DTC is present:
P006A: MAP – Mass or Volume Air Flow Correlation Bank 1
Is DTC P006A present?
 - **YES** — Continue to step 2.
 - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. Check that the PCV hose is connected and NOT damaged.
Is the PCV hose connected and NOT damaged?
 - **YES** — Continue to step 3.
 - **NO** — Repair or replace PCV hose.

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

- 2014 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: PCV Valve: [Removal](#) / [Installation](#)”
 - 2015 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: PCV Valve: [Removal](#) / [Installation](#)”
 - 2016 – 2017 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: PCV Valve: [Removal](#) / [Installation](#)”
3. Check the intake system for vacuum leaks.
 - A. Check that the hoses are installed correctly.
 - B. Check for cracks in the hoses.
Are there cracks in the hoses?
 - **YES** — Continue to step 4.
 - **NO** — Repair or replace ANY intake system concerns.
- Refer to TIS, applicable model and model year Repair Manual:
- [2014](#) / [2015](#) / [2016](#) / [2017](#) GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Intake/Exhaust: Intake System: On-vehicle inspection”

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Repair Procedure

4. Read the value using Techstream.
 - A. Connect Techstream to the DLC3.
 - B. Turn the engine switch ON (IG).
 - C. Enter the following menus: **Powertrain / Engine and ECT / Data List / All Data / MAP**
 - D. Read the MAP value with engine switch ON (IG).

Standard: 80 – 110 kPa (600 – 825 mmHg)

 - **OK** — Continue to step 5.
 - **NG** — Replace the manifold absolute pressure sensor.

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

 - 2014 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Engine Control: Manifold Absolute Pressure Sensor: [Removal](#) / [Installation](#)”
 - 2015 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Engine Control: Manifold Absolute Pressure Sensor: [Removal](#) / [Installation](#)”
 - 2016 – 2017 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Engine Control: Manifold Absolute Pressure Sensor: [Removal](#) / [Installation](#)”
5. Replace the EGR Valve Assembly.

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

 - 2014 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: EGR Valve: [Removal](#) / [Installation](#)”
 - 2015 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: EGR Valve: [Removal](#) / [Installation](#)”
 - 2016 – 2017 GX 460:

Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: EGR Valve: [Removal](#) / [Installation](#)”
6. Start the engine and warm it up until the engine coolant temperature reaches 167°F (75°C) or more.
7. Drive the vehicle at 37 mph (60 km/h) for 5 minutes or more.
8. Idle the engine for 30 seconds or more.
9. Confirm there are no drivability concerns and no pending DTCs have set.