

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 - 2015	GX460	

REVISION NOTICE

July 8, 2015 Rev1:

- The Repair Procedure section has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2014 – 2015 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 the engine running rough 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 VINs shown below.

MODEL	PLANT	ENGINE	PRODUCTION CHANGE EFFECTIVE VIN
GX 460	Tahara	1UR-FE	JTJBM7FX#F5115153

Warranty Information

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

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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	

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 10.10.018 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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Repair Procedure

1. Using Techstream, confirm the following DTC is present:
 - P006A: MAP – Mass or Volume Air Flow Correlation Bank 1Is DTC P006A present?
 - **YES** – Continue to step 2.
 - **NO** – This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
2. Check PCV hose is connected and is NOT damaged.
 - **OK** – Go to step 3.
 - **N/G** – 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](#)”
3. Check intake system for vacuum leaks.
 - A. Check that the hoses are installed correctly.
 - B. Check for cracks in the hoses.
 - **OK** – Go to step 4.
 - **N/G** – Repair or Replace any intake system concerns.
Refer to TIS, applicable model and model year Repair Manual:
 - 2014 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Intake/Exhaust: Intake System: [On-vehicle inspection](#)”
 - 2015 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Intake/Exhaust: Intake System: [On-vehicle inspection](#)”
4. Read value using Techstream.

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Repair Procedure (Continued)

- A. Connect the 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** – Go to step 5
 - **NG** – Replace 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](#)”

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](#)”

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.