

MIL "ON" DTC P0418/P244# Air Pump Filter Debris

Service Category Engine/Hybrid System

Section Emission Control

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2013	GX460	

Introduction

Some 2010 – 2013 model year GX 460 vehicles equipped with 1UR-FE engines may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0418, P2440, P2442, and/or P2445 present. The Secondary Air Injection Pump filter and Air Switching Valve Assembly have been modified to reduce the possibility of this condition occurring. Follow the Repair Procedure in this bulletin to improve this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1403	R & R Secondary Air Injection Pump Assembly, Air Switching Valve Assembly No. 1, and Air Switching Valve Assembly No. 2	2.3	17610-0C040	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.
- For California specification vehicles sold, registered, and operated in California, Connecticut (starting with '08 MY), Maine (starting with '04 MY), Maryland (starting with '11 MY), Massachusetts, New Jersey (starting with '09 MY), Oregon (starting with '09 MY), Pennsylvania (starting with '08 MY), Rhode Island (starting with '08 MY), Vermont, and Washington (starting with '09 MY), this repair is covered under the California Long-Term Emission Warranty. This warranty is in effect for 84 months or 70,000 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

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
17610-0C040		Pump Assy, Air	1
25701-38100	25701-38131	Valve Assy, Air Switching No. 1	1
25702-38050	25702-38061	Valve Assy, Air Switching No. 2	1
17376-38030		Gasket, Air Tube, No. 1	1

Required Tools & Equipment

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

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 9.10.037 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Using Techstream, check for stored DTCs. Confirm one or more of the following DTCs are present:
 - P0418 – Secondary Air Injection System Control "A" Circuit
 - P2440 – Secondary Air Injection System Switching Valve Stuck Open Bank 1
 - P2442 – Secondary Air Injection System Switching Valve Stuck Open Bank 2
 - P2445 – Secondary Air Injection System Pump Stuck Off Bank 1
2. If one or more of the above DTCs are present, replace the specified parts based on DTC as described below.
 - If DTC P2440 is present, replace the Secondary Air Injection Valve Assembly (Bank 1) and Secondary Air Injection Pump (steps A and C).
 - If DTC P2442 is present, replace the Secondary Air Injection Valve Assembly (Bank 2) and Secondary Air Injection Pump (steps B and C).

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Repair Procedure (Continued)

- If DTC P0418 and/or P2445 ONLY are present, replace the Secondary Air Injection Valve Assembly (Bank 1), Secondary Air Injection Valve Assembly (Bank 2), and Secondary Air Injection Pump (steps A, B, and C).

A. Secondary Air Switching Valve Assembly (for Bank 1):

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

- 2010 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 1): [Removal / Installation](#)”
- 2011 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 1): [Removal / Installation](#)”
- 2012 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 1): [Removal / Installation](#)”
- 2013 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 1): [Removal / Installation](#)”

B. Secondary Air Switching Valve Assembly (for Bank 2):

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

- 2010 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 2): [Removal / Installation](#)”
- 2011 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 2): [Removal / Installation](#)”
- 2012 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 2): [Removal / Installation](#)”
- 2013 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Switching Valve (for Bank 2): [Removal / Installation](#)”

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Repair Procedure (Continued)

C. Secondary Air Injection Pump Assembly:

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

- 2010 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Pump: [Removal / Installation](#)”
- 2011 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Pump: [Removal / Installation](#)”
- 2012 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Pump: [Removal / Installation](#)”
- 2013 GX 460:
Engine/Hybrid System – Emission Control – “1UR-FE Emission Control: Air Pump: [Removal / Installation](#)”

3. Clear all stored DTCs.
4. Perform Techstream Air Injection Utility check to confirm repair.
5. Confirm there are NO pending DTCs.