

MIL "ON" P125D71 – Fuel Flow Control Valve Stuck

Service

Category Engine/Hybrid System

Section Fuel System Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2015 - 2016	NX200T	Drive Type(s): 4WD, 2WD	

Introduction

Some 2015 – 2016 model year NX 200t vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P125D71 (Fuel Flow Control Valve Performance Actuator Stuck). Some vehicles may also enter "limp mode" and the Multi-Informational Display (MID) will tell the customer "reduced engine power – take vehicle to nearest dealer". 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	DRIVETRAIN PRODUCTION CHANGE EFFECTIVE VII	
NX200T	ТМК	FF/F-Sport	JTJYARBZ#G2039757
NAZ001		AWD/F-Sport	JTJBARBZ#G2079953

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1604	R & R of Sub-Tank, Fuel, No. 1 and PDV	2.5	77131-78010	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Lexus Federal Emission Warranty. This warranty is in effect for months or 48 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

PART N	UMBER	PART NAME	
PREVIOUS	NEW		
77131-78010	77131-78011	Sub-Tank, Fuel, No. 1	1
77024-78020		Plate, Sub Assy	
23990-36010		Valve Assy, Pressure Discharge	1
90301-08019 90301-04013 90301-15024		Ring, O	1

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*		TS2UNIT	
Techstream Lite	ADE	TSLITEPDLR01	1
Techstream Lite (Green Cable)		TSLP2DLR01	

^{*} Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 11.10.034 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, confirm the following DTC is present:

P125D71: Fuel Flow Control Valve Performance Actuator Stuck

Is DTC P125D71 Present?

- **YES** Go to step 2.
- **NO** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (Continued)

2. Perform Active Test using Techstream (*Powertrain – Engine – Active Test – Activate the Fuel Pressure Discharge*).

Does the fuel pressure fluctuate by at least 4 psig?

- YES This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** Go to step 3.
- 3. Perform Health Check and clear all DTCs.
- 4. Remove the fuel tank assembly.

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

- 2015 / 2016 NX 200t: Engine/Hybrid System – Fuel System – "8AR-FTS Fuel: Fuel Tank: Removal"
- 5. Remove the fuel pump assembly.

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

- 2015 / 2016 NX 200t: Engine/Hybrid System – Fuel System – "8AR-FTS Fuel: Fuel Pump: Removal"
- 6. Disassemble the fuel pump assembly.

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

• 2015 / 2016 NX 200t: Engine/Hybrid System – Fuel System – "8AR-FTS Fuel: Fuel Pump: Disassembly"

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Repair Procedure (Continued)

- 7. Remove the pressure discharge valve from the fuel suction plate sub-assembly.
 - A. Disconnect the connector from the pressure discharge valve assembly.
 - B. Detach the 2 claws and pressure discharge valve assembly from the fuel suction tube assembly with pump.

Figure 1. Claw locations

- 8. Install the new pressure discharge valve and attach the 2 claws and pressure discharge valve assembly to the fuel suction tube assembly with pump.
- 9. Reassemble the fuel pump with the new Sub-Tank, plate and applicable O-Rings. Refer to TIS, applicable model and model year Repair Manual:
 - 2015 / 2016 NX 200t: Engine/Hybrid System - Fuel System - "8AR-FTS Fuel: Fuel Pump: Reassembly"
- 10. Install the fuel pump assembly into the fuel tank.

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

- 2015 / 2016 NX 200t: Engine/Hybrid System – Fuel System – "8AR-FTS Fuel: Fuel Pump: Installation"
- 11. Install the fuel tank assembly.

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

- 2015 / 2016 NX 200t: Engine/Hybrid System – Fuel System – "8AR-FTS Fuel: Fuel Tank: Installation"
- 12. Complete the Confirmation Driving Pattern to confirm the DTC is no longer present. Refer to TIS, applicable model and model year Repair Manual:
 - 2015 / 2016 NX 200t: Engine/Hybrid System - Engine Control - "8AR-FTS ENGINE CONTROL: SFI SYSTEM: P125D71"