LEXUS

Technical Service Information Bulletin

MIL "ON" P019023 - High Pressure Fuel Sensor Signal Stuck Low

Service Category   Engine/Hybrid System

Section   Fuel System   **Market** USA

Lexus Supports
ASE Certification **ASE**

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2015 - 2016	NX200T	

Introduction

Some 2015 – 2016 model year NX 200t vehicles equipped with 8AR-FTS engines may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P019023 (Fuel Rail Pressure Sensor "A" Signal Stuck Low). The Engine Control Module/ECM (SAE Term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition occurring. Follow the Repair Procedure in this bulletin to address this condition.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1615	Reprogram ECM (PCM)	0.4	89661-78052	8A	99

APPLICABLE WARRANTY
- **This repair is covered under the Lexus Federal Emission Warranty. This warranty is in effect for 96 months or 80,000 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

DRIVETRAIN	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
FF / FF F-Sport	89661-78050 89661-78051 89661-78052	89661-78053	Computer, Engine Control (ECM/PCM)	–
AWD	89661-78060 89661-78061 89661-78062	89661-78063		
AWD F-Sport	89661-78070 89661-78071 89661-78072	89661-78073		
ALL	00451-00001-LBL		Authorized Modification Labels	1

NOTE
- **The ECM (PCM) should NOT be replaced as part of the Repair Procedure.**
- **Authorized Modification Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through** *Dealer Daily – Dealer Support Materials Orders***.**

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Required Tools & Equipment

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

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.**
- **The Diagnostic Tester is NOT recommended for flash reprogramming. Please use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.**

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

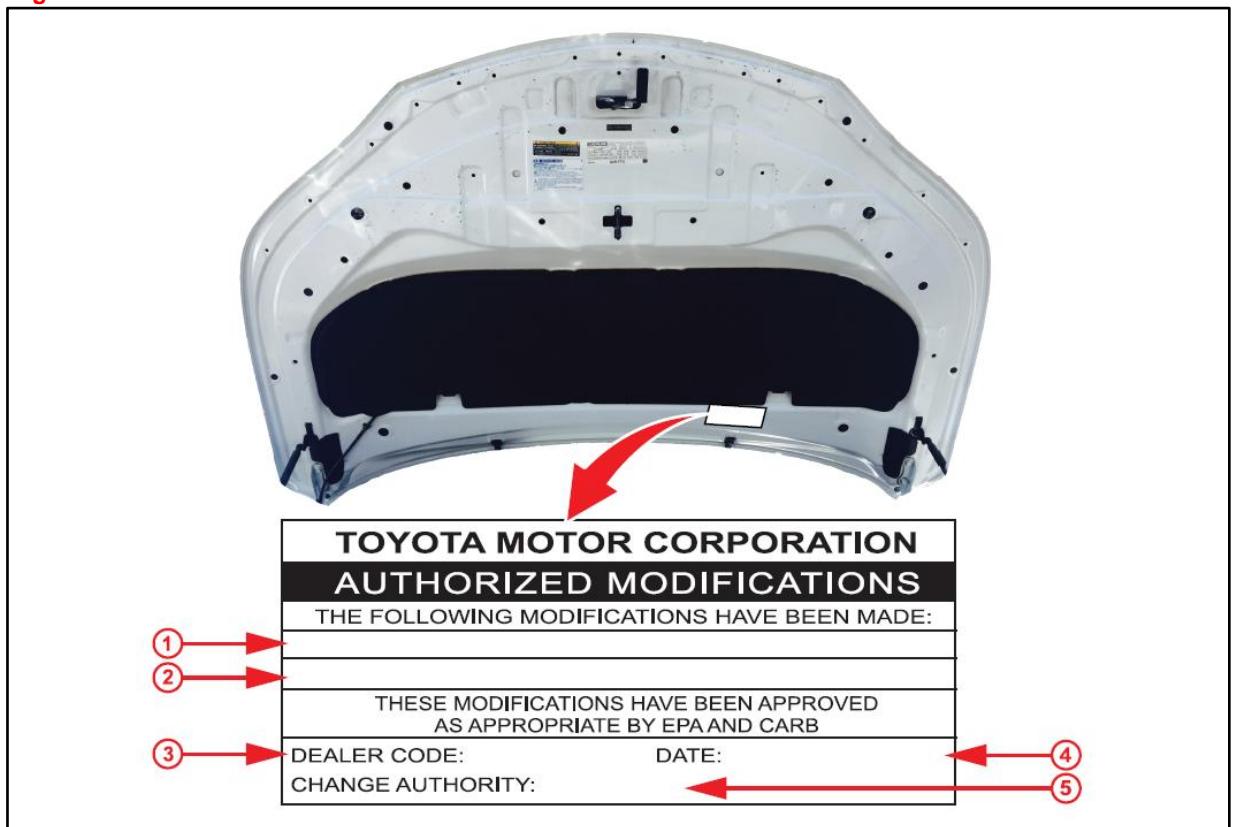 * Essential SST.

Calibration Information

MODEL	DRIVETRAIN	CALIBRATION ID		VDS
		PREVIOUS	NEW	
NX 200t	FF / FF F-Sport	896637805200 896637805300 896637805400	896637805500	YARBZ
	AWD	896637806200 896637806300 896637806400	896637806500	BARBZ
	AWD F-Sport	896637807200 896637807300 896637807400	896637807500	

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Repair Procedure

1. Confirm the condition.

   Using Techstream, perform a Health Check. Was DTC P019023 retrieved?
   - **YES —** Go to step 2.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the ECM (PCM) calibration has been updated.

   Is the calibration ID listed NOT the latest ECM (PCM) calibration?
   - **YES —** Go to step 3.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Figure 1. Location of Authorized Modifications Label on 2015 – 2016 NX 200t

1	**Replacement ECM (PCM) Part Number** (i.e., 89661-78053 or 89661-78063)		**4**	**Date Completed**
2	**New Calibration ID (i.e., 896637805500 or 896637806500)**		**5**	**This SB Number**
3	**Dealer Code**			

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Repair Procedure (Continued)

3. Flash reprogram the ECM (PCM).

> **NOTE**
> - **The GR8 Battery Diagnostic Station MUST be used in Power Supply Mode to maintain battery voltage at 13.5 volts while flash reprogramming vehicle.**
> - **For details on how to use the GR8 Battery Diagnostic Station, refer to the GR8 Instruction Manual located on the Technical Information System (TIS),** *Diagnostics – Tools & Equipment – Battery Diagnostics.*

Follow the procedures outlined in Service Bulletin No. L-SB-0021-14 "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

4. Install the Authorized Modifications Label.
   A. Using a permanent marker, enter the following information on the label:
      - ECM part number *[Refer to the **Parts Information** section for the **NEW PART NUMBER**]*
      - Calibration ID(s) *[Refer to the **Calibration Information** section for the **NEW CALIBRATION ID**]*
      - Dealer Code
      - Repair Date
      - Change Authority **[This bulletin number]**
   B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

5. Test drive the vehicle to confirm the DTC does not reset.