


MIL "ON" - DTC P0087/P008700 - Fuel Rail / System Pressure Too Low

Service Category Engine/Hybrid System

Section Fuel System

Market USA

Lexus Supports
ASE Certification 

Applicability

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

Introduction

Some 2015 model year NX200T vehicles equipped with 8AR-FTS engines may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0087 (Fuel Rail/System Pressure – Too 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.

Production Change Information

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

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
NX200T	TMK	FF/F-Sport	JTJYARBZ#F2021027
		AWD/F-Sport	JTJBARBZ#F2043919

Warranty Information

OP CODE	DESCRIPTION	TIME	OPF	T1	T2
EL1509	Reprogram ECM (PCM)	0.4	89661-78050-B	8A	99

APPLICABLE WARRANTY

- This repair is covered under the Lexus Federal Emissions 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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Calibration Information

MODEL	DRIVETRAIN	ECM (CPU)	CALIBRATION ID		VDS
			PREVIOUS	NEW	
NX200T	FF	Main	896637805000	896637805300	YARBZ
	FF/F-Sport		896637805100		
			896637805200		
	AWD		896637806000	896637806300	BARBZ
	896637806100				
	AWD/F-Sport		896637806200		
			896637807000	896637807300	
			896637807100		
			896637807200		

Parts Information

DRIVETRAIN	PART NUMBER		PART NAME	QTY
	PREVIOUS	NEW		
FF	89661-78050-B	89661-78051	Computer, Engine Control	1
FF/F-Sport				
AWD				
AWD/F-Sport	89661-78060-B	89661-78061		1
	89661-78070-B	89661-78071	1	
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	

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 10.20.030 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.

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Repair Procedure

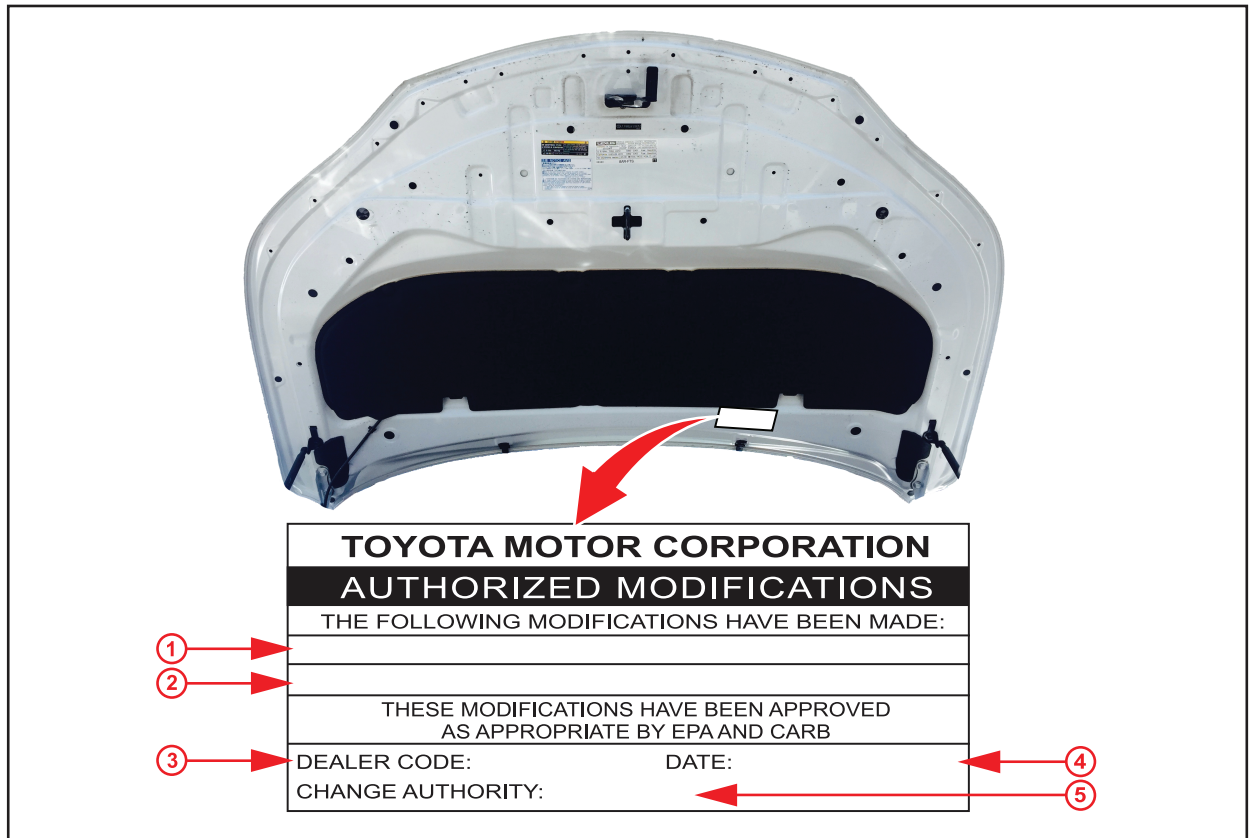
1. Confirm the condition.

Using Techstream, perform a Health Check. Was DTC P0087 retrieved?

- **YES** — Continue 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 in Figure 1 below. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 3.

Figure 1. Location of Authorized Modifications Label on 2015 NX200T



1	Replacement ECM (PCM) Part Number (i.e., 89661-78051)
2	New Calibration ID(s) (i.e., 896637805300)
3	Dealer Code

4	Date Completed
5	This SB Number

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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 the 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 [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 proper vehicle operation.