

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

Service Category Engine/Hybrid System

Section Engine Control

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2015 - 2017	NX200T	

REVISION NOTICE

August 29, 2017 Rev1:

- Applicability has been updated to include 2017 model year NX 200t vehicles.
- The entire bulletin has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2015 – 2017 model year NX 200t vehicles equipped with 8AR-FTS engines may exhibit a MIL "ON" condition Diagnostic Trouble Code (DTC) P023400 (Turbocharger/Supercharger "A" Overboost Condition). 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.

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1629	Reprogram ECM (PCM)	0.4	89661-78050	8A	99
			89661-78051		
			89661-78052		
			89661-78053		
			89661-78054		
			89661-78055		
			89661-78060		
			89661-78061		
			89661-78062		
			89661-78063		
			89661-78064		
			89661-78065		
			89661-78070		
			89661-78071		
			89661-78072		
			89661-78073		
			89661-78074		
			89661-78075		

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.

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

Parts Information

DRIVETRAIN	PART NUMBER		PART NAME	QTY		
	PREVIOUS	NEW				
FF/FF F-Sport	89661-78050 89661-78051 89661-78052 89661-78053 89661-78054 89661-78055	89661-78056	Computer, Engine Control (ECM/PCM)	—		
AWD	89661-78060 89661-78061 89661-78062 89661-78063 89661-78064 89661-78065	89661-78066				
AWD F-Sport	89661-78070 89661-78071 89661-78072 89661-78073 89661-78074 89661-78075	89661-78076				
—	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 – Parts – Dealer Support Material Order*.

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

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 12.20.024 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- 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

* Essential SST.

NOTE

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

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

Calibration Information

MODEL	DRIVETRAIN	CALIBRATION ID		VDS
		PREVIOUS	NEW	
NX 200t	FF/FF F-Sport	896637805200	896637805800	YARBZ
		896637805300		
		896637805400		
		896637805500		
		896637805600		
		896637805700		
	AWD	896637806200	896637806800	BARBZ
		896637806300		
		896637806400		
		896637806500		
		896637806600		
		896637806700		
	AWD F-Sport	896637807200	896637807800	
		896637807300		
		896637807400		
		896637807500		
		896637807600		
		896637807700		

Repair Procedure

- Confirm the condition.
Using Techstream, perform a Health Check. Was DTC P023400 retrieved?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

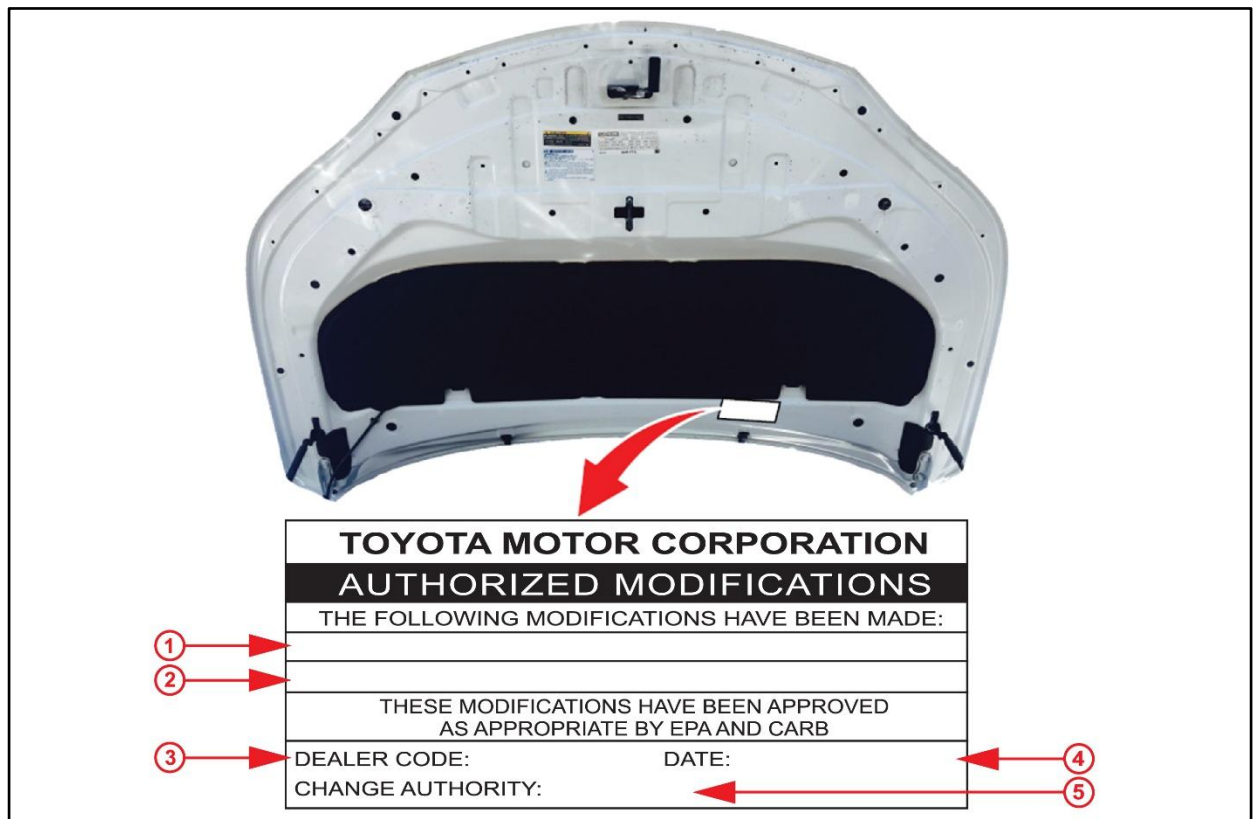
Repair Procedure (Continued)

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** — Continue 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 – 2017 NX 200t



1	Replacement ECM (PCM) Part Number (i.e., 89661-78055 or 89661-78065)
2	New Calibration ID (i.e., 896637805700 or 896637806700)
3	Dealer Code

4	Date Completed
5	This SB Number

MIL "ON" P023400 - Turbocharger/Supercharger "A" Overboost Condition

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 13.5V 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.