

# 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	OFF	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	89661-78056	Computer, Engine Control (ECM/PCM)	-
	89661-78051			
	89661-78052			
	89661-78053			
	89661-78054			
	89661-78055			
AWD	89661-78060	89661-78066	Computer, Engine Control (ECM/PCM)	-
	89661-78061			
	89661-78062			
	89661-78063			
	89661-78064			
	89661-78065			
AWD F-Sport	89661-78070	89661-78076	Computer, Engine Control (ECM/PCM)	-
	89661-78071			
	89661-78072			
	89661-78073			
	89661-78074			
	89661-78075			
-	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](http://techinfo.toyota.com) for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	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	<a href="#">896637805800</a>	YARBZ
		896637805300		
		896637805400		
		896637805500		
		896637805600		
		896637805700		
	AWD	896637806200	<a href="#">896637806800</a>	BARBZ
		896637806300		
		896637806400		
AWD F-Sport	896637806500	<a href="#">896637807800</a>		
	896637806600			
	896637806700			
	896637807200			
	896637807300			
	896637807400			
896637807500				
896637807600				
896637807700				

### Repair Procedure

1. 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

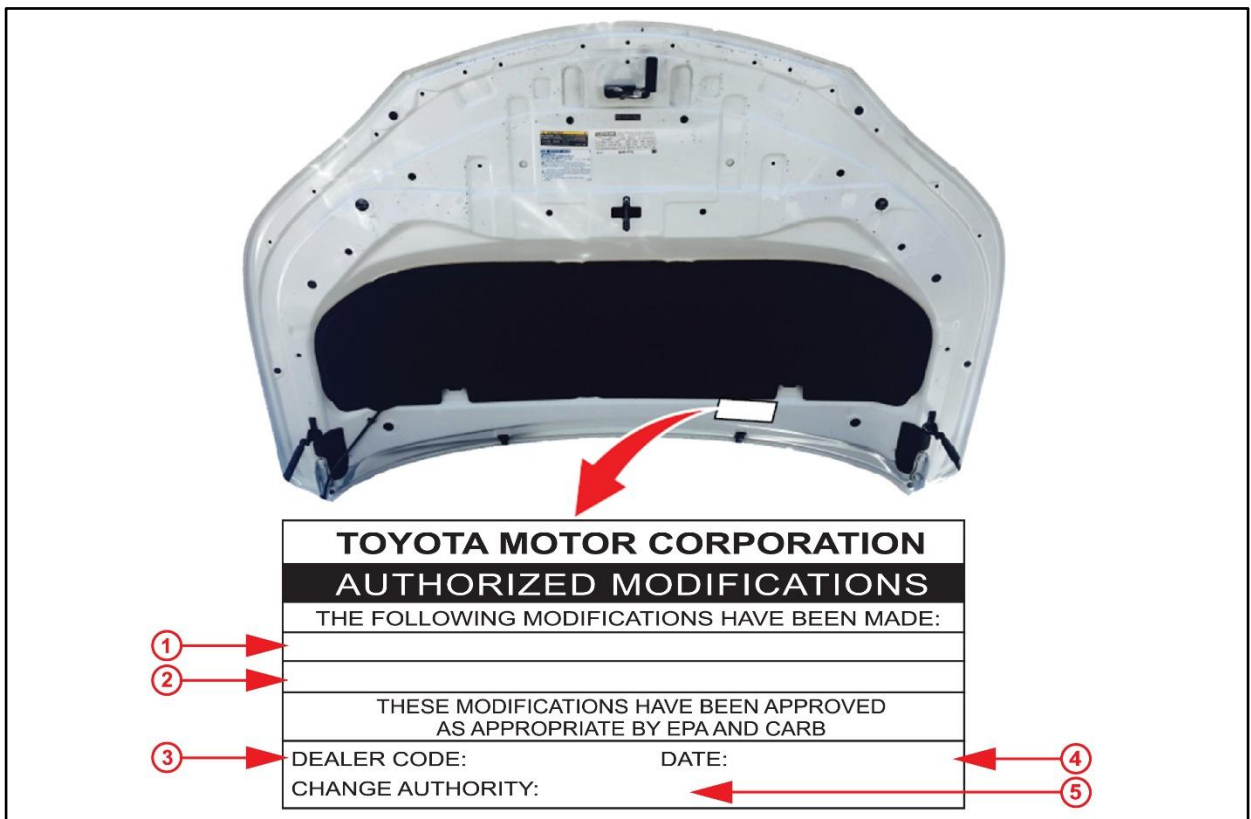
## Repair Procedure (Continued)

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**



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

<b>4</b>	Date Completed
<b>5</b>	This SB Number

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

---

### Repair Procedure (Continued)

- 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.

- Install the Authorized Modifications Label.
  - 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**]
  - 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.
- Test drive the vehicle to confirm the DTC does NOT reset.