

MIL "ON" DTC P2111 and P0A0F After Cold Soak

Service Category Engine/Hybrid System

Section Engine Mechanical

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2011 – 2016	CT200H	

REVISION NOTICE

October 17, 2016 Rev2:

- Applicability has been updated to include 2015 – 2016 model year CT 200h vehicles.
- ECU Part Information and Calibration Information Sections have been added.
- Introduction and Repair Procedure sections have been updated.

March 11, 2014 Rev1:

- Applicability has been updated to include 2013 – 2014 model year CT 200h vehicles.
- The Parts Information, Warranty Information, and Required Tools & Equipment sections have been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2011 – 2016 model year CT 200h vehicles equipped with a 2ZR-FXE engine may exhibit a MIL "ON" condition with Diagnostic Trouble Codes (DTCs) P2111 (Throttle Actuator Control System) and P0A0F (Engine Failed to Start) present when ambient temperatures are below 23F (–5C). The intake manifold assembly has been improved as well as 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.

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Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
17120-37050 17120-37051 17120-37052 17120-37053 17120-37054	17120-37091	Manifold Assy, Intake	1
00451-00001-LBL		Authorized Modifications Label	1

NOTE

- If the current part number is 17120-37090, do NOT replace intake manifold. Part number 17120-37090 contains the update for the subject condition.
- 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*.

HINT

Part Number of manifold can be found on the top of intake runner #4.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1623	R & R Intake manifold Assembly and Reprogram ECM (PCM)	2.1	17120-37050 17120-37051 17120-37052 17120-37053 17120-37054	8A	88
EG1624	Reprogram ECM (PCM)*	0.4	89660-76014 89660-76014 89660-76081	8A	99

* Reprogram of ECM (PCM) only is covered under the Lexus Federal Emission Warranty and is in effect for 96 months or 80,000 miles, whichever occurs first, from the vehicle's in-service date.

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Warranty Information (Continued)

APPLICABLE WARRANTY

- This repair is covered under the Lexus Federal Emission Warranty. This warranty is in effect for 48 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.
- For California specification vehicles sold and operated in California (California Emission Long-Term coverage for Intake Manifold only applies to '15 – '16 CT200h), Connecticut, Delaware (starting with '14 MY), Maine, Maryland, Massachusetts, New Jersey, New Mexico ('11 MY only), New York (starting with '16 MY) Oregon, Pennsylvania, Rhode Island, Vermont, and Washington, this repair is covered under the California Emission Warranty, which is 84 months or 70,000 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.

ECU Part Information

MODEL	MODEL YEAR	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
CT200h	2011-2013	89660-76010 89660-76011 89660-76012 89660-76013	89660-76014	Computer, Engine Control	-
	2014	89660-76012 89660-76013	89660-76014		
	2015-2016	89660-76080	89660-76081		

NOTE

The ECM (PCM) should NOT be replace as part of the repair procedure.

Required Tools & Equipment

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

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Required Tools & Equipment (Continued)

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 11.20.019 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.



Calibration Information

MODEL	MODEL YEAR	ECU PART NUMBER	
		PREVIOUS	NEW
CT 200h	2011 – 2013	37601000	37601400
		37601100	
		37601200	
37601300			
	2014	37608000	37608100
	2015 – 2016	37616000	37616100

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Repair Procedure

1. Use Techstream to check for DTCs and confirm the condition per the Introduction.
2. Remove and replace the intake manifold with the updated part. Refer to the Technical Information System (TIS), applicable model year CT 200h Repair Manual:
 - 2011 CT 200h:
Engine/Hybrid System – Intake/Exhaust – “2ZR-FXE Intake/Exhaust: Intake Manifold: [Removal](#) / [Installation](#)”
 - 2012 CT 200h:
Engine/Hybrid System – Intake/Exhaust – “2ZR-FXE Intake/Exhaust: Intake Manifold: [Removal](#) / [Installation](#)”
 - 2013 CT 200h:
Engine/Hybrid System – Intake/Exhaust – “2ZR-FXE Intake/Exhaust: Intake Manifold: [Removal](#) / [Installation](#)”
 - 2014 CT 200h:
Engine/Hybrid System – Intake/Exhaust – “2ZR-FXE Intake/Exhaust: Intake Manifold: [Removal](#) / [Installation](#)”
 - 2015 – 2016 CT 200h:
Engine/Hybrid System – Intake/Exhaust – “2ZR-FXE Intake/Exhaust: Intake Manifold: [Removal](#) / [Installation](#)”

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Repair Procedure (Continued)

3. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1 below.

Is the ECM/PCM calibration the most recent calibration according to the table above?

- **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** — Continue to step 4.

Figure 1. Location of Authorized Modification Label for CT200h



1	Replacement ECM (PCM) Part Number (i.e., 89681-76011)
2	New Calibration ID (i.e., 37601300)
3	Dealer Code
4	Date Completed
5	This SB Number

4. 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.

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Repair Procedure (Continued)

5. 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 Modification 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.
6. Confirm the Repair.
 - A. Confirm P2111 and P0A0F are not present after cold soak.
 - B. Test Drive the vehicle to confirm proper vehicle operation.