

MIL "ON" DTC P050B00 - Cold Start Ignition Timing Performance

Service

Category Engine/Hybrid System

Section Engine Control Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018	LS500	

Introduction

Some 2018 model year LS 500 vehicles equipped with a V35A-FTS engine may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P050B00 (Cold Start Ignition Timing Performance). 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
LS 500 Ta	Tohoro	2WD	JTHB51FF#J5002077
	Tahara	AWD	JTHC51FF#J5001838

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1801	Reprogram ECM (PCM)	0.5	89661-50S30 89661-50S90	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.

L-SB-0012-18 March 28, 2018 Page 2 of 5

MIL "ON" DTC P050B00 - Cold Start Ignition Timing Performance

Parts Information

DDIVETDAIN	PART NUMBER		PART NAME	OTV
DRIVETRAIN	PREVIOUS	NEW	PARI NAIVIE	QTY
2WD	89661-50S30	89661-50S31	Computer, Engine Control (ECM/PCM)	
AWD	89661-50S90	89661-50S91	Computer, Engine Control (ECIVI/PCIVI)	_
_	00451-00001-LBL		Authorized Modifications Labels	1

NOTE

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

Required Tools & Equipment

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

^{*} Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 13.00.022 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 <u>techinfo.toyota.com</u> 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.

L-SB-0012-18 March 28, 2018 Page 3 of 5

MIL "ON" DTC P050B00 - Cold Start Ignition Timing Performance

Calibration Information

MODEL	DICINE	CALIBRATION ID		VDC
	ENGINE	PREVIOUS	NEW	VDS
		8966A5005000	8966A5005100	
LS 500	2WD	8966350K6000	8966350K6100	B51FF
		896655065000	<u>896655065100</u>	
		8966A5011000	8966A5011100	
	AWD	8966350L2000	8966350L2100	C51FF
		896655071000	<u>896655071100</u>	

Repair Procedure

- Using Techstream, check for the following stored DTC: P050B00 – Cold Start Ignition Timing Performance Is the DTC present?
 - YES Continue to step 2.
 - NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

L-SB-0012-18 March 28, 2018 Page 4 of 5

MIL "ON" DTC P050B00 - Cold Start Ignition Timing Performance

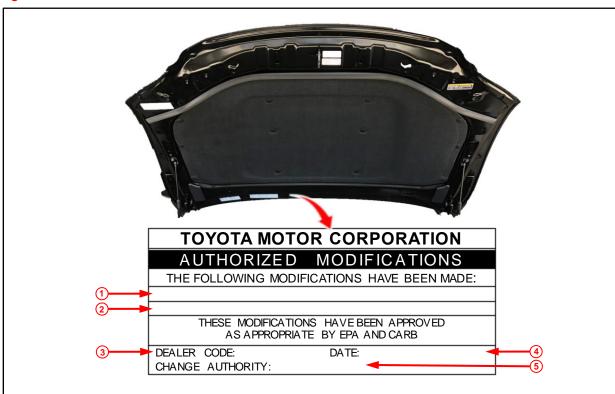
Repair Procedure (continued)

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 the latest ECM (PCM) calibration?

- YES This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- NO Continue to step 3.

Figure 1. Location of Authorized Modifications Label for 2018 LS 500



1	Replacement ECM (PCM) Part Number (e.g., 89661-50S31)
2	New Calibration ID (e.g., 8966A5005100)
3	Dealer Code

4	Date Completed
5	This SB Number

L-SB-0012-18 March 28, 2018 Page 5 of 5

MIL "ON" DTC P050B00 - Cold Start Ignition Timing Performance

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 at TIS Diagnostics Tools & Equipment Battery Diagnostics.

Follow the procedures outlined in Service Bulletin No. <u>L-SB-0001-18</u> "Techstream ECU Flash Reprogramming Procedure," and flash the ECM (PCM) with the NEW calibration file update.

- 4. Prepare and install the Authorized Modifications Label.
 - A. Using a permanent marker, enter the following information on the label:
 - ECM (PCM) 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.