

MIL "ON" DTC P0011 – Advanced Camshaft Timing

Service Category Engine/Hybrid System

Section Engine Mechanical

Market USA

Lexus Supports
ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------|------------------------|
| 2013 – 2014 | ES300H | |

Introduction

Some 2013 – 2014 model year ES 300h vehicles equipped with 2AR-FXE engines may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0011 (Camshaft Position "A" – Timing Over-Advanced or System 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.

Warranty Information

| OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|---------|---------------------|------|-------------|----|----|
| EG1407 | Reprogram ECM (PCM) | 0.4 | 89661-33L20 | 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.

Calibration Information

| MODEL | MODEL YEAR | ENGINE | CALIBRATION ID | | VDS |
|---------|-------------|---------|----------------|--------------------------|-------|
| | | | PREVIOUS | NEW | |
| ES 300h | 2013 – 2014 | 2AR-FXE | 33384000 | 33384100 | BW1GG |

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Parts Information

| MODEL | MODEL YEAR | PART NUMBER | | PART NAME | QTY |
|---------|-------------|-----------------|-------------|------------------------------------|-----|
| | | PREVIOUS | NEW | | |
| ES 300h | 2013 – 2014 | 89661-33L20 | 89661-33L21 | Computer, Engine Control (ECM/PCM) | - |
| | | 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*.

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 9.30.029 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

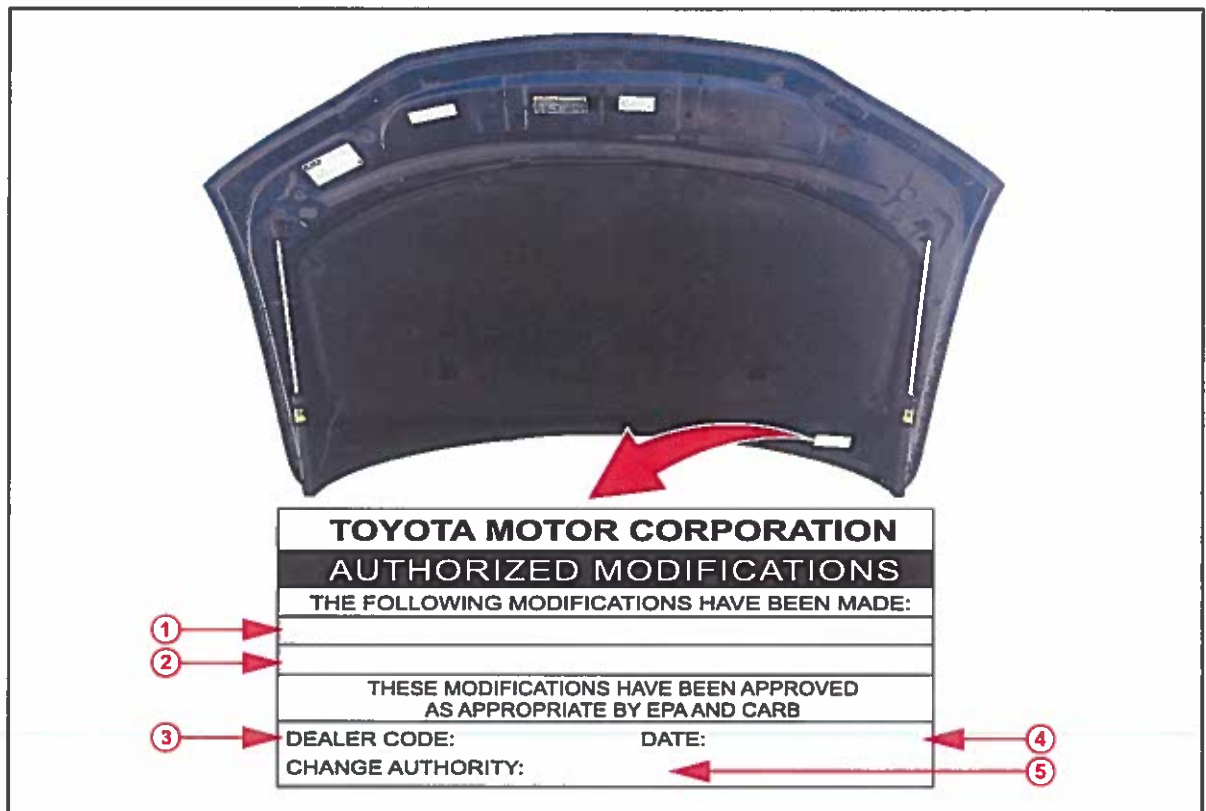
1. Confirm the condition.

Using Techstream, perform a Health Check. Was DTC P0011 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 2013 – 2014 ES 300h



| | |
|---|---|
| 1 | Replacement ECM (PCM) Part Number (i.e., 89661-33L21) |
| 2 | New Calibration ID(s) (i.e., 33384100) |
| 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.