

MIL "ON" DTC P0128

Service Category Vehicle Interior

Section Meter/Gauge/Display

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 – 2011	Camry	Transmission(s): 6AT VDS(s): BF3EK WMI(s): 4T1, 4T4, JTN

Introduction

Some 2010 – 2011 model year Camry vehicles equipped with a 2AR-FE engine and automatic transmission may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0128 (*Coolant Temperature Below Thermostat Regulating Temperature*). The Engine Control Module/ECM (SAE term: Powertrain Control Module/PCM) logic has been modified to reduce the possibility of this condition occurring. Use the following repair procedure to address this condition.

Calibration Information

MODEL	TRANS	EMISSION SPECIFICATION	MODULE	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID
2010 – 2011 Camry	A/T	PZEV	ECM	333B6000 333B6100 333B6200 333B6300 333B6400 333G5000 333G5100	306D5000
			ECT	895363315000 895363319000	895363328000
		ULEV2	ECM	333B5000 333B5100 333B5200 333B5300 333B5400 333G4000 333G4100	306D4000
			ECT	895363315000 895363319000	895363328000

MIL "ON" DTC P0128

Warranty Information

OP CODE	DESCRIPTION	TIME	EMISSION SPECIFICATION	OFP	T1	T2
EG1302	Reprogram ECM (PCM)	0.4	PZEV	89661-06J40 89661-06J41 89661-06J42 89661-06J43 89661-06J44 89661-06J45 89661-33F00 89661-33F01 89661-33F02 89661-06N80 89661-06N81 89661-06N82	8A	99
			ULEV2	89661-06J10 89661-06J11 89661-06J12 89661-06J13 89661-06J14 89661-06J15 89661-33E90 89661-33E91 89661-33E92 89661-06N70 89661-06N71 89661-06N72		

APPLICABLE WARRANTY

- This repair is covered under the Toyota 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.
- For 2010 – 2011 MY 4-cylinder Camry models certified as PZEV (Partial Zero Emission Vehicle) that are sold, registered, and operated in California, Connecticut, Maine, Maryland (starting with '11 MY), Massachusetts, New Jersey, New Mexico, New York, Oregon, Rhode Island, and Vermont, this repair is covered under the California Emission Warranty. This warranty is in effect for 180 months or 150,000 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" DTC P0128

Parts Information

EMISSION SPECIFICATION	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
PZEV	89661-06J40 89661-06J41 89661-06J42 89661-06J43 89661-06J44 89661-06J45 89661-33F00 89661-33F01 89661-33F02 89661-06N80 89661-06N81 89661-06N82	89661-06J45	Computer, Engine Control (ECM/PCM)	—
ULEV2	89661-06J10 89661-06J11 89661-06J12 89661-06J13 89661-06J14 89661-06J15 89661-33E90 89661-33E91 89661-33E92 89661-06N70 89661-06N71 89661-06N72	89661-06J15		—
N/A	00451-0001-LBL	Same	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.

MIL "ON" DTC P0128

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 8.00.034 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Additional SSTs may be ordered by calling 1-800-933-8335.
- 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.



* Essential SST.

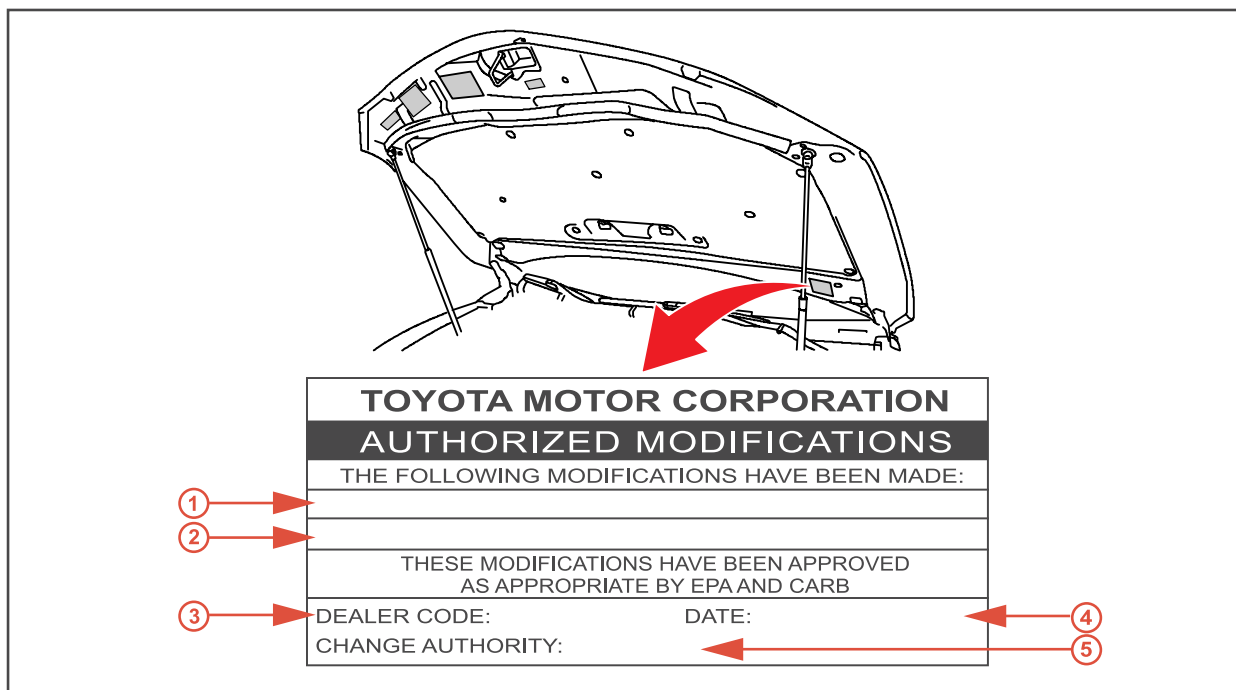
MIL "ON" DTC P0128

Repair Procedure

1. Using Techstream, check for stored DTCs. Confirm DTC P0128 is set.

If other DTCs are present, this bulletin does NOT apply. Continue diagnosis per Repair Manual procedures.
2. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1. 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 2010 – 2011 Camry



1	Replacement ECM (PCM) Part Number (i.e., 89661-06J45)
2	New Calibration ID(s) (i.e., 306D5000)
3	Dealer Code

4	Date Completed
5	This SB Number

MIL "ON" DTC P0128

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 No. [T-SB-0012-13](#), "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 **CURRENT PART NUMBER**]
- Calibration ID(s) [Refer to the **Calibration Identification Chart** 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. Start the engine and warm it up to normal operating temperature and test drive to confirm proper vehicle operation.