



**Technical Service
BULLETIN**

September 20, 2007

Title:

**M.I.L. "ON" DTC P0136, P0138,
AND/OR P2195**

Models:

'06 – '07 Corolla & Matrix (1ZZ-FE)

**ENGINE
EG043-07**

Introduction Some 2006 – 2007 model year Corolla and Matrix vehicles equipped with a 1ZZ-FE engine may exhibit a M.I.L. "ON" condition with one or more of the Diagnostic Trouble Codes (DTCs) P0136, P0138, or P2195 stored in the Engine Control Module or ECM (SAE term: Powertrain Control Module/PCM). Please use the following procedure to repair the vehicle.

- Applicable Vehicles**
- **2006 – 2007** model year **Corolla** and **Matrix (2WD)** vehicles equipped with the **1ZZ-FE engine** and produced **BEFORE** the Production Change Effective VINs shown below.

**Production
Change
Information**

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Corolla	Takaoka	JTDBR3#E#70127918
	NUMMI	1NXBR3#E#7Z870076
	TMMC	2T1BR3#E#7C801489
Matrix		2T1KR3#E#7C663153

**Warranty
Information**

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
EG7034	R & R Engine Control Computer (ECM)	Corolla	0.4	89661-0####	01	99
		Matrix	0.5			

Applicable Warranty*:

This repair is covered under the Toyota Federal Emissions 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 correction of a problem based upon a customer's specific complaint.



Parts Information

MODEL	TRANS	PREVIOUS PART NUMBER		CURRENT PART NUMBER	PART NAME	QTY
		2006 MY	2007 MY			
Corolla	A/T	89661-02C9#	89661-02K10	89661-02K11	Computer, Engine Control (ECM/PCM)	1
		89661-02D0#	89661-02K20	89661-02K21		1
Matrix		89661-02D4#	89661-02K30	89661-02K31		1
		89661-02D5#	89661-02K40	89661-02K41		1
Corolla & Matrix	M/T	89661-02D1#	89661-02K50	89661-02K51		1

Required Tools & Equipment

REQUIRED EQUIPMENT	PART NUMBER	QTY	DRW**
TIS Techstream* NOTE: Software version 2.11.004 or later is required. 	TSUNT	1	N/A
Digital Battery System Analyzer* NOTE: • All components from this kit/set are required. 	00002-V8150-KIT	1	19

* Essential SSTs.

** Drawer number in SST Storage System.

NOTE:

- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Toyota Diagnostic Tester and CAN Interface Module may also be used to perform the service procedures listed in this bulletin.

Inspection Procedure

1. Confirm proper operation of both the A/F sensor (Bank 1 Sensor 1) and the Oxygen sensor (Bank 1 Sensor 2).
 Refer to the Technical Information System (TIS):
 - 2006 or 2007 model year Corolla or Matrix Repair Manual: *Engine/Hybrid System – Engine Control – “1ZZ-FE ENGINE CONTROL SYSTEM: SFI SYSTEM: P0136: Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)”*
 - 2006 or 2007 model year Corolla or Matrix Repair Manual: *Engine/Hybrid System – Engine Control – “1ZZ-FE ENGINE CONTROL SYSTEM: SFI SYSTEM: P2195: Oxygen (A/F) Sensor Signal Stuck Lean (Bank 1 Sensor 1)”*
2. If both the A/F sensor and the Oxygen sensor are functioning properly, replace the ECM (PCM).
3. If both the A/F sensor and the Oxygen sensor are NOT functioning properly, follow the diagnostic procedures in the Repair Manual to repair.

**Repair
Procedure**

1. Replace the ECM (PCM).

Refer to TIS:

- 2006 or 2007 model year Corolla or Matrix Repair Manual: *Engine/Hybrid System – Engine Control – "1ZZ-FE Engine Control System: ECM Removal"*.
- 2006 or 2007 model year Corolla or Matrix Repair Manual: *Engine/Hybrid System – Engine Control – "1ZZ-FE Engine Control System: ECM Installation"*.

2. Register the VIN into the replacement ECM (PCM).

Refer to the Technical Information System (TIS):

- 2006 or 2007 model year Corolla or Matrix Repair Manual: *Engine/Hybrid System – Engine Control – "1ZZ-FE Engine Control System: SFI System: Registration"*.

3. Confirm the repair.