



**Technical Service
BULLETIN**

April 22, 2005

Title:

**1ZZ-FE ENGINE "NO START"
CONDITION**

Models:

'05 Corolla & Matrix

ENGINE
EG018-05

Introduction Some 2005 model year Corolla and Matrix vehicles equipped with a 1ZZ-FE engine may exhibit an intermittent "no start" condition. Improvements have been made to the Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) manufacturing process to reduce the possibility of this condition occurring. Please use the following procedure to repair the vehicle.

Applicable Vehicles

- **2005 model year Corolla and Matrix vehicles equipped with 1ZZ-FE engines produced BEFORE the Production Change Effective VINs shown below.**

Production Change Information

CONDITION	MODEL	DRIVETRAIN	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Engine No Start	Corolla	2WD	Shokki	JTDBR3#E#50054897
			NUMMI	1NXBR3#E#5Z480791
			TMMC	2T1BR3#E#5C447953
	Matrix	2WD	TMMC	2T1KR3#E#5C449277

Warranty Information

OP CODE	DESCRIPTION	MODEL	TIME	OFF	T1	T2
895011	R & R Engine Control Computer (ECM)	Corolla	0.4	89661-01120 89661-01121 89661-01130 89661-01131 89661-02C10 89661-02C11	8A	99
		Matrix	0.5	89661-0Z040 89661-0Z041 89661-02C00 89661-02C01		

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	TRANSMISSION	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
Corolla	A/T	89661-02C00	89661-02C02	Computer, Engine Control	1
		89661-02C01			
		89661-02C10	89661-02C12		
		89661-02C11			
Matrix		89661-01120	89661-01122		
		89661-01121			
		89661-01130	89661-01132		
		89661-01131			
Corolla and Matrix	M/T	89661-0Z040	89661-0Z042		
		89661-0Z041			

Required Tools & Material

TOOLS & MATERIALS	QUANTITY
Standard Metric Socket Set & Hand Tools	As Required

Required SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	Toyota Diagnostic Tester Kit* NOTE: • All components from this kit/set are required • 12 Megabyte Diagnostic Tester Program Card (P/N 01002593-005) with version 12.01a Software (or later) is required 	TOY220036	1	9
2	CAN Interface Module Kit* NOTE: • All components from this kit/set are required 	01002744	1	9
3	Midtronics Battery Tester* NOTE: • All components from this kit/set are required 	00002-MP815-T	1	15

* Essential SSTs.

** Refers to drawer number in SST Storage System.

NOTE:
Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards, or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Inspection Procedure

If the vehicle is currently exhibiting a “no start” condition:

- Refer to the Technical Information System (TIS), 2005 model year Corolla Repair Manual: *Diagnostics/SFI System (1ZZ-FE)/Basic Inspection* for the diagnostic procedure for Corolla.
- Refer to TIS, 2005 model year Matrix Repair Manual: *Diagnostics/SFI System (1ZZ-FE (FF))/Basic Inspection* for the diagnostic procedure for Matrix.

NOTE:

When the “no start” condition is related to the ECM (PCM) issue, there will be no spark or injector pulse during cranking. Also, the Diagnostic Tester may fail to initialize with the Engine ECM (PCM).

- If the vehicle exhibits the above conditions, replace the ECM (PCM).

Repair Procedure

1. Replace ECM (PCM). Refer to TIS, 2005 model year Corolla or Matrix Repair Manual: *Engine Control System: ECM (1ZZ-FE/2ZZ-GE): Replacement*.
2. Register the VIN into the replacement ECM (PCM). Refer to TIS, 2005 model year Corolla or Matrix Repair Manual: *Diagnostics: SFI System (1ZZ-FE/2ZZ-GE): Registration*.

NOTE:

Confirm battery state-of-charge prior to immobilizer registration using the SST Midtronics Battery Tester (P/N 00002-MP815-T).

3. Register ECM (PCM), Communication ID Registration and Master/Sub Key registration. Refer to TIS, 2005 model year Corolla or Matrix Repair Manual: *Theft Deterrent & Door Lock: Engine Immobilizer System: Registration*.