



**Technical Service
BULLETIN**

October 19, 2005

Title:

M.I.L. "ON" DTC P0420

Models:

'01 – '03 Sienna

T S B

ENGINE
EG047-05

Introduction Under certain driving conditions, some 2001 – 2003 model year Sienna vehicles may exhibit a M.I.L. "ON" with the following DTC:

- P0420 (Catalyst System Efficiency Below Threshold [Bank 1])

The Engine Control Module (ECM) (SAE term: Powertrain Control Module/PCM) logic has been modified to improve this condition.

- Applicable Vehicles**
- 2001 – 2003 model year **Sienna** vehicles.

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89661-08061	89661-08062	Module, Engine Control	1
89661-08070	89661-08071		
89661-08080	89661-08081		

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
895011	R & R Engine Control Module	0.5	89661-08061 89661-08070 89661-08080	8A	71


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.



Required
SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	Toyota Diagnostic Tester Kit* NOTE: <ul style="list-style-type: none"> All components from this kit/set are required 12 Megabyte Diagnostic Tester Program Card (P/N 01002593–005) with version 13.0a Software (or later) is required 	TOY220036	1	9

* Essential SSTs.

** Refers to drawer number in SST Storage System.

NOTE:

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

Repair
Procedure

- Verify DTC P0420 with the Diagnostic Tester by referring to the Technical Information System (TIS), 2001 – 2003 model year Sienna Repair Manual: *Diagnostics: Engine: Pre-Check*.
- Replace ECM (PCM). Follow the Repair Manual ECM replacement instructions. Refer to TIS, 2001 – 2003 model year Sienna Repair Manual: *Introduction: How To Troubleshoot ECU Controlled Systems: How To Use The Diagnostic Chart And Inspection Procedure*.
- Perform the following steps to confirm that the vehicle is repaired.
 - Reset the Readiness test by using the "Clear DTC" function on the Diagnostic Tester.
 - To clear the DTC, refer to TIS, 2001 – 2003 model year Sienna Repair Manual: *Diagnostics: Engine: Pre-Check*.
 - Perform Readiness Monitor Drive Patterns for Catalyst Monitor O2S type and AF Sensor type. Refer to TSB No. EG003-02, "Readiness Monitor Drive Patterns," procedures: *Catalyst Monitor (O2S Type)* and *Catalyst Monitor (AF Sensor Type)*.
 - If a DTC is set during the above drive patterns, refer to the Diagnostic Trouble Code Chart in TIS, 2001 – 2003 model year Sienna Repair Manual: *Diagnostics: Engine: Diagnostic Trouble Code Chart*. Test drive the vehicle to confirm normal operation.
- If NO DTCs (pending or current) are stored, the repair is complete.