



Technical Service BULLETIN

November 14, 2003

Title:

M.I.L. "ON" DTC P0420

Models:

'01 Prius

TSB

ENGINE
EG017-03
REVISED

TSB REVISION NOTICE:

- **March 2, 2007:** The Applicable Warranty box in Warranty Information has been updated. The ECM part number of the Parts Information table has been updated, and a note has been added to the Parts Information table. The Required SSTs has been updated to the current format. Step 1 of the Repair procedure has been updated.

Previous versions of this TSB should be discarded.

Introduction Some 2001 model year Prius vehicles may experience a M.I.L. "ON" with DTC P0420 due to an Electronic Control Module (ECM) (SAE term: Powertrain Control Module/PCM) software logic error. The ECM logic has been modified to prevent the M.I.L. "ON" condition. Follow the repair procedures described below to improve this condition.

Applicable Vehicles

- **2001** model year **Prius** vehicles produced **BEFORE** the Production Change Effective VIN shown below.

Production Change Information

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Prius	JT2BK1#U#10032180

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89661-47030	89661-47054	Module, Engine Control (ECM)	1
17410-21261	Same	Pipe Assembly, Exhaust, Front	1

NOTE:

Engine Control Modules with the following part numbers contain modified software logic and do NOT require replacement: 89661-47051, 89661-47052, and 89661-47053.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
895011	R & R Engine Control Module	0.4	89661-47030	99	99
170171	R & R Catalytic Converter	0.5	17410-21261		

Applicable Warranty*:


The 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.



Toyota Supports ASE Certification

**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 10.1a Software (or later) is required. 	TOY220036	1	9

* Essential SSTs.

** 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**

1. Follow the P0420 DTC diagnosis. Refer to the Technical Information System (TIS) 2001 model year Prius Repair Manual: *Diagnostics: Engine: Circuit Inspection (P0420)*.
2. If B1S2 readings indicate a defective catalytic converter, replace the catalytic converter.
3. Verify engine ECM (PCM). If ECM part number is 89661–47030, replace the engine ECM (PCM).

NOTE:

- ECM (PCM) replacement applies to part number 89661–47030 ONLY.
- Maintain steady throttle during cruise while performing Confirmation Driving Pattern found in the Repair Manual.
- In some instances, both the catalytic converter and ECM (PCM) will need to be replaced.