

**Service** 

Category Engine/Hybrid System

Section Engine Control Market USA



# **Applicability**

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2002 – 2003	Camry	Engine(s): 1MZ Transmission(s): 4AT, 5AT VDS(s): BF30K, BF32K	

#### Introduction

Some 2002 – 2003 model year Camry vehicles may exhibit a MIL "ON" condition with Diagnostic Trouble Code (DTC) P0500 — Vehicle Speed Sensor "A". 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.

### **Warranty Information**

OP C	ODE	DESCRIPTION	TIME	OFP	T1	T2
EG9	034	Recalibrate ECM (PCM) Engine & Transmission	0.6	89661-#### 89666-#####	8A	99

### 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.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.



### **Parts Information**

MODEL	MODEL YEAR	TRANS	PRODUC- TION	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
Camry	2002	4AT	NAP	89666-06520 89666-06250 89666-06251 89666-06252 89666-06253 89666-06254 89666-06255	89666-06257	Computer, Engine Control (ECM/PCM)	-
			Japan	89661-3T660 89661-3T661 89661-3T662 89661-3T663 89661-3T664 89661-3T665 89661-3T666	89661-3T667		ı
		2003 5AT	NAP	89666-06530 89666-06531 89666-06532	89666-06533		ı
			Japan	89666-33430 89666-33431 89666-33432	89666-33433		_
	2003		NAP	89661-0X140 89666-06210 89666-06211 89666-06212 89666-06213 89666-06214	89666-06215		-
			Japan	89661-06A10 89661-06A11 89666-33420 89666-33421 89666-33460 89666-33461 89666-33462 89666-33463	89666-33465		_
_	_	_	_	00451-00001- 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.



# **Calibration Information**

MODEL	TRANS	MODEL YEAR	ECU	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID	VDS
Camry	4AT	2002	Main	33305000 33305100 33305200 33305300	<u>33305400</u>	
			Sub	53310000 53310100 53310200 53310300	53310100 53310200 <u>53310400</u>	
			Main	33332000	<u>33332100</u>	
				Sub	53325000 53325100 53325200	<u>53325300</u>
	5AT	2003	Main	33343000 33343100 33343200 33343300	33343400	
		Sub	Sub	53330000 53330100 53330200 53330300 53330400	<u>53330500</u>	



# **Required Tools & Equipment**

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream*	ADE	TSUNT	1
NOTE: Software version 4.21.002 or later is required.	,,52	100111	'

<sup>\*</sup> Essential SST.

#### **NOTE**

- Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming with this calibration file. Please use TIS Techstream or an approved J2534 interface to perform this update. Visit <u>techinfo.toyota.com</u> for more information regarding J2534 reprogramming.



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

<sup>\*</sup> Essential SST.

#### **NOTE**

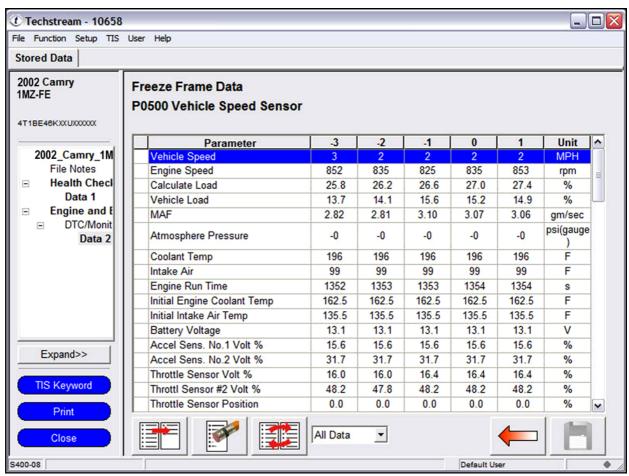
Additional SSTs may be ordered by calling 1-800-933-8335.

#### **Inspection Procedure**

**CONTACT** 

1. Inspect the Freeze Frame Data stored under "Engine and ECT" with the DTC P0500. (See Figure 1.)

Figure 1.



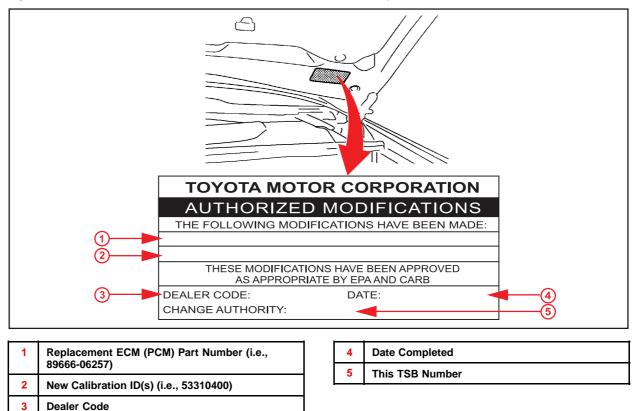
- 2. Is the stored vehicle speed less than 5 mph (8 km/h)?
  - YES Proceed to the Repair Procedure and flash reprogram the ECM.
  - NO STOP This TSB may not apply. Proceed with normal Repair Manual diagnostic procedures. If no fault can be found, then proceed to the Repair Procedure and flash reprogram the ECM.

#### **Repair Procedure**

**TOYOTA** 

1. Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 2. Confirm if the ECM (PCM) calibration has been updated. If the calibration ID listed is NOT the latest ECM (PCM) calibration — go to step 2.

Figure 2. Location of Authorized Modifications Label on 2002 - 2003 Camry



2. 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 <u>GR8 Instruction</u> <u>Manual</u> located on the Technical Information System (TIS), *Diagnostics Tools & Equipment Battery Diagnostics*.

Follow the procedures outlined in TSB No. <u>T-SB-0064-10</u>, "Techstream ECU Flash Reprogramming Procedure", and flash the ECM (PCM) with the NEW calibration file update.

### **Repair Procedure (Continued)**

- 3. Start the engine and warm it up to normal operating temperature before test driving.
- 4. Test drive the vehicle to confirm proper vehicle operation and ECM (PCM) learning.

  Refer to TIS, applicable model year Camry Repair Manual:
  - 2002 Camry:

    <u>Drivetrain Automatic Transmission/Transaxle "Electronic Controlled Automatic Transaxle [ECT]: Pre-Check"</u>
  - 2003 Camry:

    <u>Drivetrain Automatic Transmission/Transaxle "Electronic Controlled Automatic Transaxle [ECT]: Pre-Check"</u>

<u>Drivetrain – Automatic Transmission/Transaxle – "Electronic Controlled Automatic Transaxle [ECT] (U151E): Pre-Check"</u>

- 5. 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 TSB number]
  - B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 2. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.