

2003 Toyota RAV4

HARSH SHIFT AND/OR M.I.L. "ON" DTC P0750, P0755, P0758, AND/OR P1760

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TECHNICAL SERVICE BULLETIN

Reference Number(s): TC002-06, Date of Issue: March 15, 2006

TOYOTA: 2001 - 2003 RAV4

SECTION: TRANSMISSION & CLUTCH

Superseded Bulletin(s): TC002-06, Date of Issue: March 3, 2006

INTRODUCTION

NOTE: TSB REVISION NOTICE:

- **March 15, 2006: The Parts Information table has been updated.**

Previous versions of this TSB should be discarded.

Some 2001 - 2003 model year RAV4 vehicles equipped with an automatic transaxle may exhibit a harsh shift condition and/or M.I.L. "ON" with DTC P0750, P0753, P0755, P0758, and/or P1760 stored. 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. Use the following procedure to repair the vehicle.

APPLICABLE VEHICLES

- **2001 - 2003** model year **RAV4** vehicles equipped with automatic transmission.

REQUIRED TOOLS & MATERIAL

REQUIRED TOOLS & MATERIAL SPECIFICATION

TOOLS & MATERIAL	QUANTITY
Metric Socket Set and Hand Tools	As Needed

WARRANTY INFORMATION

WARRANTY INFORMATION

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
			89661-42650		
			89661-42651		
			89661-42652		
			89661-42653		
			89661-42660		
			89661-42661		

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895011	R & R Engine Control Module (ECM)	0.5	89661-42662 89661-42663 89661-42810 89661-42811 89661-42820 89661-42821 89661-42880 89661-42890	8A	99
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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

PARTS INFORMATION

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89661-42650	89661-42653	Engine Control Module (ECM)	1
89661-42651			1
89661-42652			1
89661-42660	89661-42663		1
89661-42661			1
89661-42662			1
89661-42810	89661-42811		1
89661-42820	89661-42821		1
89661-42880	Same		1
89661-42890	Same		1

REQUIRED SSTS

SPECIAL SERVICE TOOLS DESCRIPTION

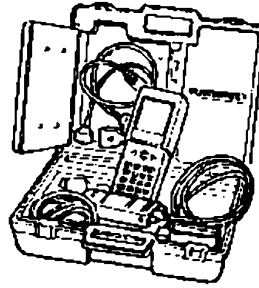
ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW ⁽²⁾
1	<p>Toyota Diagnostic Tester Kit⁽¹⁾</p> <p>NOTE:</p> <ul style="list-style-type: none"> • All components from this kit/set are required • 12 Megabyte Diagnostic 	TOY220036	1	9

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Tester Program Card (P/N 01002593-005) with version 13.3a Software (or later) is required



(1) Essential SSTs.

(2) 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.

INSPECTION PROCEDURE

1. If the vehicle is currently exhibiting a harsh shift condition and/or M.I.L. "ON" with DTC P0750, P0753, P0755, P0758, and/or P1760 stored, refer to the Technical Information System (TIS), 2001 - 2003 model year RAV4 Repair Manual:
 - 4WD: *Diagnostics/Automatic Transaxle (U140f): Problem Symptoms Table*
 - 2WD: *Diagnostics/Automatic Transaxle (U142E): Problem Symptoms Table*

NOTE: In some instances the vehicle must be operated at least 30 minutes before the condition can be duplicated.

2. If the vehicle exhibits the above condition, replace the ECM (PCM).

REPAIR PROCEDURE

1. Replace the ECM (PCM). Refer to TIS, 2001 - 2003 model year RAV4 Repair *Manual: SFI: Engine Control Module (ECM): Components* .
2. Test drive the vehicle until the engine reaches normal operating temperature to confirm that the vehicle is repaired.

NOTE:

- In some instances the vehicle must be operated at least 30 minutes before the condition can be duplicated.
- If the condition is still present after ECM replacement, the automatic transaxle assembly may also require replacement.