



Technical Service BULLETIN

March 3, 2006

Title:

HARSH SHIFT AND/OR M.I.L. "ON" DTC P0750, P0753, P0755, P0758, AND/OR P1760

Models:

'01 – '03 RAV4

REVISÉD
TC002-06
TRANSMISSION & CLUTCH

TSB REVISION NOTICE:

- **March 15, 2006:** The Parts Information table has been updated. Previous versions of this TSB should be discarded.

Introduction 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

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

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
895011	R & R Engine Control Module (ECM)	0.5	89661-42650 89661-42651 89661-42652 89661-42653 89661-42660 89661-42661 89661-42662 89661-42663 89661-42810 89661-42811 89661-42820 89661-42821 89661-42880 89661-42890	8A	99

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

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

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	<p>Toyota Diagnostic Tester Kit*</p> <p>NOTE:</p> <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 13.3a 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.

Inspection Procedure

- 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.

- 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.