

T-SB-0156-10 Rev1 June 22, 2010

Harsh Shift and/or MIL "ON" DTC P0750, P0753, P0755, P0758 and/or P1760

Service Category Drivetrain

Section Automatic Transmission/Transaxle

Market USA

 Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2001 – 2003	RAV4	Drive Type(s): 2WD, 4WD Transmission(s): 4AT VDS(s): GH20V, HH20V

TSB REVISION NOTICE

June 25, 2010 Rev1:

- Step 4 of the Repair Procedure has been updated.

Any previous printed versions of this service bulletin should be discarded.

TSB SUPERSESSION NOTICE

The information contained in this TSB supersedes TSB No. TC002-06.

- The TSB content has been modified to include the possible replacement of the transaxle assembly.

TSB No. TC002-06 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this service bulletin before proceeding.

Introduction

Some 2001 – 2003 model year RAV4 vehicles equipped with an automatic transaxle may exhibit a harsh shift condition and/or MIL "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.

Warranty Information

OP CODE	DESCRIPTION		TIME	OFF	T1	T2
EG1009	R & R Engine Control Module (ECM)	All	0.5	89661-42###	8A	99
Combo A	R & R Transaxle Assembly	2WD	4.5			
		4WD	7.5			

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Warranty Information (Continued)

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

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY	
89661-42650 89661-42651 89661-42652 89661-42653 89661-42654	04009-41242	Engine Control Module (ECM)	1	
89661-42660 89661-42661 89661-42662 89661-42663 89661-42664	04009-41342		1	
89661-42810 89661-42811 89661-42812	04009-39642		1	
89661-42820 89661-42821 89661-42822	04009-39542		1	
89661-42880	04009-39242		1	
89661-42890	04009-39142		1	
30510-42110-84	Same		Reman ATM (2WD)	1
30510-42100-84	Same		Reman ATM (4WD)	1

Repair Procedure

1. Confirm the vehicle is currently exhibiting a harsh shift condition and/or MIL "ON" with DTCs P0750, P0753, P0755, P0758, and/or P1760 stored.
 - If the vehicle exhibits the above condition, proceed to step 2 – Replace the ECM (PCM).
 - If the vehicle does NOT exhibit the above condition, this TSB does NOT apply.

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Repair Procedure (Continued)

2. Replace the ECM (PCM).

Refer to the Technical Information System (TIS), applicable model year RAV4 Repair Manual:

- [2001](#) / [2002](#) / [2003](#) RAV4:
Engine/Hybrid System – Engine Control – “Engine Control Module (ECM): Components”

3. After replacement of the ECM (PCM), confirm that the vehicle has been repaired. It is necessary to complete ECM learning and a function test of the automatic transaxle assembly.

Drive the vehicle under normal city driving conditions for at LEAST 20 minutes to complete the ECM learning function, then complete a function test.

NOTE

The ECM learning must be completed BEFORE performing a function test of the automatic transaxle assembly.

Refer to TIS, applicable model year RAV4 Repair Manual:

- [2001](#) / [2002](#) / [2003](#) RAV4 (4WD):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle (U140F): Pre-check” (Road Test section)
- [2001](#) / [2002](#) / [2003](#) RAV4 (2WD):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle (U241E): Pre-check” (Road Test section)

4. If the automatic transaxle still has harsh shifting and/or MIL “ON” with DTCs P0750, P0755, and/or P1760 stored, replace the automatic transaxle assembly.

Refer to TIS, applicable model year RAV4 Repair Manual:

4WD:

- [2001](#) / [2002](#) / [2003](#) RAV4 (U140F):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle Unit: Removal”
- [2001](#) / [2002](#) / [2003](#) RAV4 (U140F):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle Unit: Installation”

2WD:

- [2001](#) / [2002](#) / [2003](#) RAV4 (U241E):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle Unit: Removal”
- [2001](#) / [2002](#) / [2003](#) RAV4 (U241E):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle Unit: Installation”

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Repair Procedure (Continued)

5. Perform a road test to verify the repair.

Refer to TIS, applicable model year RAV4 Repair Manual:

- [2001](#) / [2002](#) / [2003](#) RAV4 (4WD):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle (U140F): Pre-check” (Road Test section)
- [2001](#) / [2002](#) / [2003](#) RAV4 (2WD):
Drivetrain – Automatic Transmission/Transaxle – “Automatic Transaxle (U241E): Pre-check” (Road Test section)