

Toyota Supports

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

Service

Category Drivetrain

Section Automatic Transmission/Transaxle Market USA 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TSB No. TC002-06 is Obsolete and any printed versions should be discarded.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 | OFP | T1 | T2 |
|---------|-----------------------------------|-----|------|-------------|----|----|
| EG1009 | R & R Engine Control Module (ECM) | All | 0.5 | | | |
| Combo A | R & R Transaxle Assembly | 2WD | 4.5 | 89661-42### | 8A | 99 |
| | | 4WD | 7.5 | | | |

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

Rev1

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 89661-42653 | 04009-41242 | | 1 |
| 89661-42660 89661-42661 89661-42662 89661-42663 89661-42663 89661-42664 | 04009-41342 | Engine Control Module (ECM) | 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.

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

Rev1

Repair Procedure (Continued)

2. Replace the ECM (PCM).

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

- <u>2001</u> / <u>2002</u> / <u>2003</u> 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:

- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (4WD): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle (U140F): Pre-check" (Road Test section)
- <u>2001</u> / <u>2002</u> / <u>2003</u> 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:

- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (U140F): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle Unit: Removal"
- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (U140F): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle Unit: Installation"

2WD:

- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (U241E): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle Unit: Removal"
- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (U241E): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle Unit: Installation"

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Rev1

Repair Procedure (Continued)

5. Perform a road test to verify the repair.

Refer to TIS, applicable model year RAV4 Repair Manual:

- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (4WD): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle (U140F): Pre-check" (Road Test section)
- <u>2001</u> / <u>2002</u> / <u>2003</u> RAV4 (2WD): Drivetrain – Automatic Transmission/Transaxle – "Automatic Transaxle (U241E): Pre-check" (Road Test section)