

3RD - 4TH GEAR SHIFT FLARE

'07 Camry (V6)

August 2, 2006

BULLETIN

RANSMISSION & CLUTCH TC008-

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TSB REVISION NOTICE:

 August 7, 2006: The OFP has been updated in Warranty Information. Applicable Warranty has been changed from Comprehensive to Powertrain.

Previous versions of this TSB should be discarded.

Introduction Some customers may experience a sharp increase in RPM between the 3rd to 4th gear shift point during the first ten minutes of operation after a cold start. A revised transmission valve body has been developed to address this concern.

NOTE:

This TSB <u>ONLY</u> applies to vehicles that have been confirmed to have the customer concerns listed above.

Applicable Vehicles

• 2007 model year Camry vehicles equipped with the V6 engine.

Parts Information

| PREVIOUS PART NUMBER | CURRENT PART NUMBER | PARTNAME | QTY | |
|-------------------------|--|------------------------------|---------------------------------------|--|
| 35410–33170 | 35410–33170 Same Body Assembly, Transmission Valve | | 1 | |
| 90301–27010 | Same | O-ring, Oil Strainer | 1 | |
| 35168–33080 | Same | Gasket, Transmission Oil Pan | 1 | |
| 08886–02305 | Same | ATF WS | 3.4 qts (3.2 liters, 2.8 lmp. qts) | |
| 90430–12008 Same | | Gasket, Overflow Plug | 1 | |

Required Tools & Material

| TOOLS & MATERIAL | QUANTITY |
|--|-----------|
| Toyota Genuine Adhesive 1344, Three Bond 1344, or equivalent | As Needed |

Warranty Information

| OP CODE | DESCRIPTION | ENGINE | TIME | OFP | T1 | T2 |
|---------|---------------------------|--------|------|-------------|----|----|
| 369251 | R & R Valve Body Assembly | 2GR–FE | 2.2 | 35410–33170 | 91 | 99 |

Applicable Warranty*:

This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 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.



| Required SSTs | ITEM NO. | SPECIAL SERVICE TOOLS (SSTs) | | PARTNUMBER | QTY | DRW** |
|------------------|-------------|---|--|------------|-----|-------|
| | 1 | Toyota Diagnostic Tester Kit* NOTE: 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 |
| | 2 | CAN Interface Module Kit* NOTE: • All components from this kit/set are required. | | 01002744 | 1 | 9 |

* Essential SSTs.

** Refers to drawer number in SST Storage System.

2. Connect the Diagnostic Tester to DLC3.

NOTE:

Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards, or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Repair 1. Allow the vehicle to cold soak for a minimum of 4 hours. **Procedure**

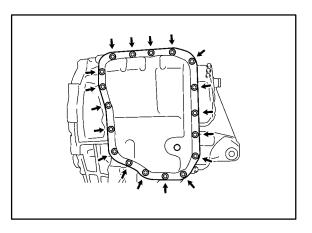
Procedure

- 3. Turn the engine switch ON.
- 4. Turn the Diagnostic Tester ON.
- 5. Enter the following menus on the tester: DIAGNOSIS / OBD–MOBD / ECT / DATA LIST.
- 6. Start the engine.
- 7. Monitor SHIFT position and ENGINE SPD while driving the vehicle with light throttle application (under 40% throttle angle).
- 8. If shift flare is experienced when shifting from 3rd to 4th gear, remove and replace the transmission valve body.
 - A. Remove the automatic transaxle oil pan sub–assembly.
 - a. Remove the 18 bolts and oil pan from the transaxle.

NOTE:

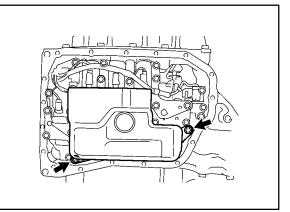
Some fluid will remain in the oil pan. Remove all the pan bolts, and carefully remove the oil pan assembly.

b. Remove the gasket from the oil pan.

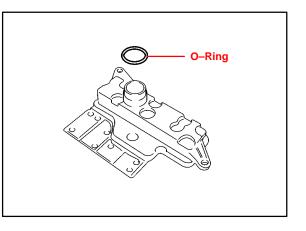


Repair Procedure (Continued)

- B. Remove the valve body oil strainer assembly.
 - a. Remove the 2 bolts and oil strainer from the valve body.



b. Remove the O-ring from the oil strainer.



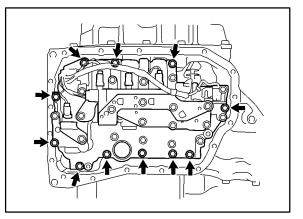
C. Remove the transmission valve body assembly.

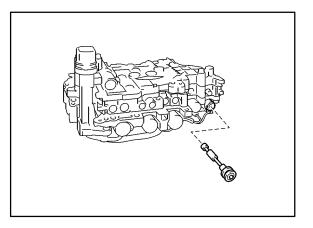
Remove the 11 bolts and valve body from the transaxle.

NOTE:

When removing the transmission valve body assembly, be careful NOT to allow the transmission revolution sensor and the transaxle case to interfere with each other.

- D. Remove the manual valve from the valve body.
- E. Coat the manual valve with ATF and install it into the NEW valve body.
- F. Install the transmission valve body assembly.
 - a. Coat the O-ring of the transmission wire with ATF.





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Repair Procedure (Continued) b. Confirm that the manual valve lever is positioned as shown in the illustration and install the valve body assembly to the transaxle case with the 11 bolts.

Torque: 11 N•m (112 kgf•cm, 8 ft•lbf)

Bolt length:

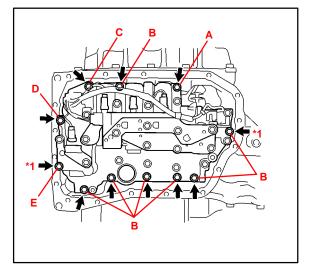
Bolt A: 25 mm (0.98 in.) Bolt B: 30 mm (1.18 in.) Bolt C: 35 mm (1.38 in.) Bolt D: 45 mm (1.77 in.) Bolt E: 55 mm (2.17 in.)

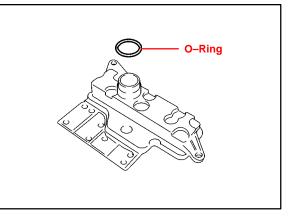
NOTE:

- First, temporarily tighten the bolts marked by (*1) in the illustration because they are positioning bolts.
- When installing the transmission valve body assembly, be careful NOT to allow the transmission revolution sensor and transaxle case to interfere with each other.
- Be sure to insert the pin of the manual valve lever into the groove on the end of the manual valve.
 - G. Install the valve body oil strainer assembly.
 - a. Coat a NEW O-ring with ATF and install it to the oil strainer.

NOTE:

Ensure that the O-ring is NOT twisted or pinched.

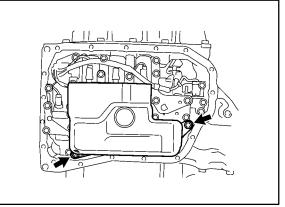




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Repair Procedure (Continued) b. Install the oil strainer to the valve body with the 2 bolts.

Torque: 11 N•m (112 kgf•cm, 8 ft•lbf)



- H. Install the automatic transaxle oil pan sub–assembly.
 - a. Confirm the position of the 2 magnets in the oil pan.
 - b. Install a NEW gasket to the oil pan.
 - c. Apply adhesive to the 18 bolts.

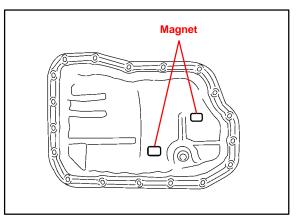
Adhesive: Toyota Genuine Adhesive 1344, Three Bond 1344, or equivalent

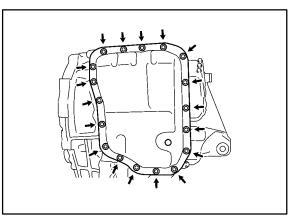
d. Install the oil pan to the automatic transaxle with the 18 bolts.

Torque: 7.5 N•m (76 kgf•cm, 66 in.•lbf)

NOTE:

- In order to ensure proper sealing of the transmission oil pan bolts, apply adhesive to the bolts and install them within 10 minutes of adhesive application.
- Completely remove any oil or grease from the contact surface of the transaxle case and oil pan sub-assembly with the gasket before installation.





I. Fill transaxle with automatic transaxle fluid.

Automatic Transaxle Fluid: Genuine ATF WS Transmission Fluid

Refer to the Technical Information System (TIS), 2007 model year Camry Repair Manual: *U660E Automatic Transaxle: Automatic Transaxle Assembly: Installation.* Procedure (Continued)

- **Repair** 9. After replacement of the transmission valve body:
 - A. Connect the Diagnostic Tester to DLC3.
 - B. Turn the engine switch ON and turn the Diagnostic Tester ON.
 - C. Enter the following menus on the tester: DIAGNOSIS / OBD–MOBD / ECT / AT CODE UTILITY.
 - D. Select "AT CODE RESET" on the tester.
 - E. Press "ENTER."

10. Perform a road test to allow the TCM to learn.

NOTE:

Perform the following procedures while strictly observing all traffic laws and speed limits.

- A. Warm up the engine.
- B. From a standstill, achieve the highest possible speed with the accelerator pedal opened 15% or less. Keep the accelerator pedal angle steady while driving the vehicle.
- C. Repeat the previous step until shift shock no longer occurs.
- D. From a standstill, achieve the highest possible speed with the accelerator pedal opened 25% or more. Keep the accelerator pedal angle steady while driving the vehicle.
- E. Repeat the previous step until shift shock no longer occurs.

NOTE:

If valve body replacement does NOT correct the condition, continue diagnosis following the Repair Manual Problem Symptoms Table. If necessary, contact Technical Assistance for further support.