

Applies To: 2001 S2000 - From VIN JHMAP1...1T000001 thru JHMAP1...1T009916

**December 4, 2001** 

# **Transmission Pops Out of 4th Gear**

## PROBLEM

The transmission intermittently pops out of 4th gear while driving at a steady speed or going over bumps.

## **CORRECTIVE ACTION**

Replace the mainshaft 3rd gear set and 4th gear.

#### PARTS INFORMATION

Mainshaft 3rd Gear Set: P/N 23444-PCY-306, H/C 6234314

(Kit includes 3rd gear, synchros, 3-4 synchro hub, and 3-4 synchro sleeve.)

Mainshaft 4th Gear: P/N 23451-PCY-000, H/C 6234322

## **REQUIRED MATERIALS**

Honda Manual Transmission Fluid (1.7 quarts required per vehicle): P/N 08798-9016, H/C 4928271

## WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Operation	Number:	213109
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Flat Rate Time:	8.2 hours
Failed Part:	P/N 23451-PCY-000 H/C 6234322
Defect Code:	037
Contention Code:	B99

Template ID: 01-100A

Skill Level: Repair Technician

**Out of warranty:** Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Service Manager or your Zone Office. You must request consideration, and get a decision, before starting work.

# **REPAIR PROCEDURE**

NOTE: For this repair, make sure you use the 2000–02 S2000 Service Manual. This manual has an updated transmission reassembly procedure.

1. Remove the transmission (see pages 13-5 through 13-11).

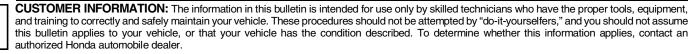
NOTE: Before you unplug the connectors for the primary and secondary heated oxygen sensors, mark or tag the connector locations to ensure correct reinstallation. Incorrect reinstallation will permanently damage the ECM.

- 2. Disassemble the transmission, and remove the countershaft and the mainshaft (see pages 13-12 through 13-26).
- 3. Replace the mainshaft 3rd gear set and the mainshaft 4th gear (see pages 13-30 through 13-35).
- 4. Reassemble the transmission (see pages 13-55 through 13-65).

NOTE: When you reinstall the select return spring, make sure you preload the spring by crossing the ends over the pin in the shift arm rod then insert the 8 x 40 mm pin between the spring ends.

- 5. Reinstall the transmission (see pages 13-66 through 13-72).
- 6. Fill the transmission with 1.7 quarts of Honda MTF.
- 7. Test-drive the vehicle to make sure the transmission works properly.

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