DTC Troubleshooting (cont'd)

2001 Model

DTC P0720: Problem in Countershaft Speed Sensor Circuit

NOTE:
- Record all freeze data and review General Troubleshooting Information (see page 14-3) before you troubleshoot.
- This code is caused by an electrical circuit problem and cannot be caused by a mechanical problem in the transmission.

1. Check the countershaft speed sensor installation.

   Is the countershaft speed sensor installed properly?

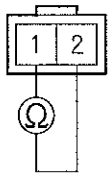
   YES—Go to step 2.

   NO—Reinstall and recheck. ■

2. Disconnect the countershaft speed sensor connector (2P).

3. Measure the countershaft speed sensor resistance at the sensor connector.

COUNTERSHAFT SPEED SENSOR CONNECTOR



Terminal side of male terminals

Is there 400—600 Ω ?

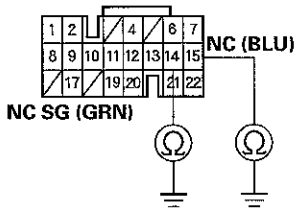
YES—Go to step 4.

NO—Replace the countershaft speed sensor (see page 14-134). ■

4. Disconnect PCM connector C (22P).

5. Check for continuity between PCM connector terminal C14 and body ground, and between terminal C15 and body ground.

PCM CONNECTOR C (22P)



Wire side of female terminals

Is there continuity?

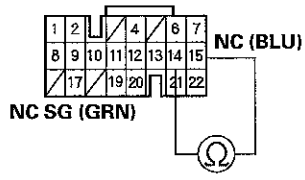
YES—Repair short to ground in the wires between PCM connector terminals C14 and C15, and the countershaft speed sensor. ■

NO—Go to step 6.

6. Connect the countershaft speed sensor connector.

7. Measure the resistance between PCM connector terminals C14 and C15.

PCM CONNECTOR C (22P)



Wire side of female terminals

Is there 400—600 Ω ?

YES—Check for loose terminal fit in the PCM connectors. If necessary, substitute a known-good PCM and recheck. ■

NO—Repair loose terminal or open in the wires between PCM connector terminals C14 and C15, and the countershaft speed sensor. ■