

Electrical Troubleshooting

Troubleshooting Flowchart (cont'd)

Self-diagnosis **D4** indicator light blinks fifteen times.

Are the mainshaft and countershaft speed sensors installed properly?

NO

YES

Disconnect the 2P connector from the mainshaft speed sensor.

Measure the resistance of the mainshaft speed sensor.

Is the resistance 400–600 Ω (at 70°F, 20°C)

NO

YES

Disconnect the E (26P) connector from the PCM. Connect the Test Harness "A" connector to the wire harness only, not to the PCM (page 14-48 and 49).

Check for continuity between body ground and A7 terminal and A8 terminal individually.

Is there continuity?

YES

NO

Reconnect the 2P connector to the mainshaft speed sensor connector.

Measure the resistance between A8 and A7 terminals.

Is the resistance 400–600 Ω (at 70°F, 20°C)

NO

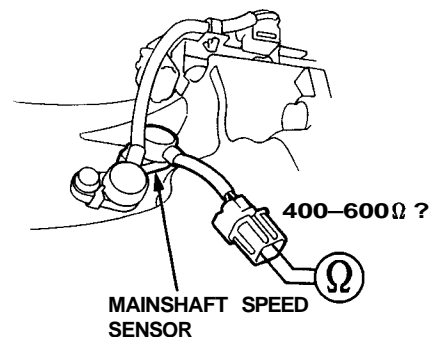
YES

Check for loose PCM connectors. If necessary, substitute a known-good PCM and recheck.

Possible Cause

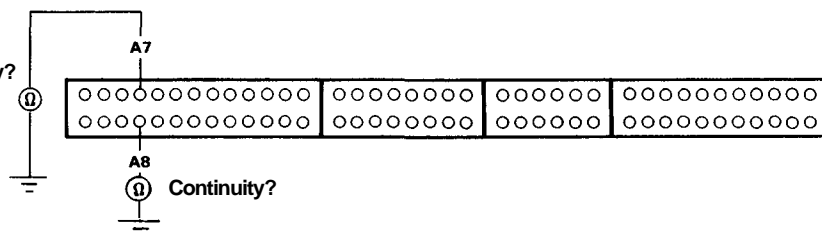
- Disconnected mainshaft speed sensor connector
- Short or open in mainshaft speed sensor wire
- Faulty mainshaft speed sensor

NOTE: Code 15 on the PCM doesn't always mean there's an electrical problem in the mainshaft or countershaft speed sensor circuit; code 15 may also indicate a mechanical problem in the transmission.



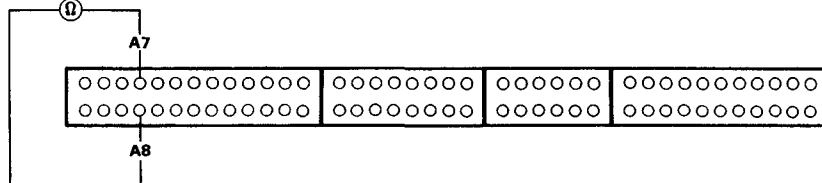
NOTE: The section A of the Test Harness with the Test harness Adapter corresponds to the E (26P) connector of the PCM.

Continuity?



Repair short in ORN or WHT wire between E7 and E8 terminals and the mainshaft speed sensor.

400-600 Ω ?



Repair open in ORN or WHT wire between E7 and E8 terminals and the mainshaft speed sensor.