

Engine Tune-up

Troubleshooting Flowchart — Spool Valve

21 Self-diagnosis LED indicates code 21: A problem in the Spool Valve circuit.

Disconnect the 2P connector from the spool valve.

Check for continuity between GRN/WHT terminal and body ground.

Is there 14–30 Ω ?

YES

NO

Replace the spool solenoid valve.

Connect the ECU test harness.

Check for continuity between GRN/WHT terminal and A8 terminal.

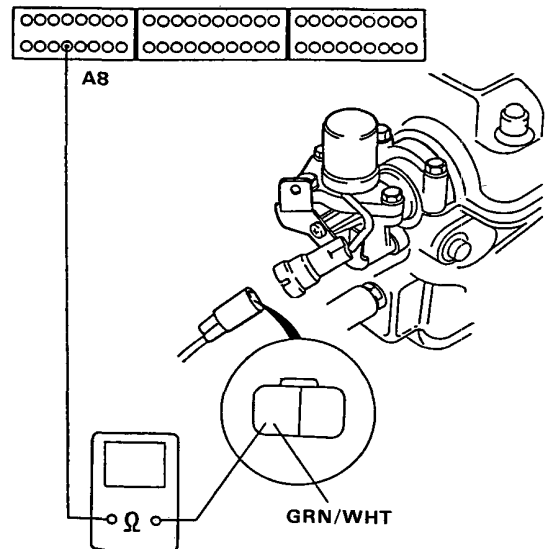
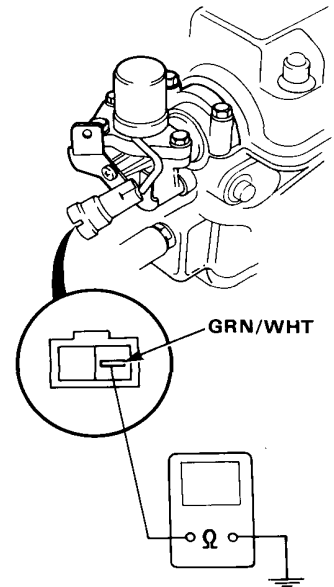
Does continuity exist ?

YES

NO

Repair open in GRN/WHT wire between ECU and spool valve connector.

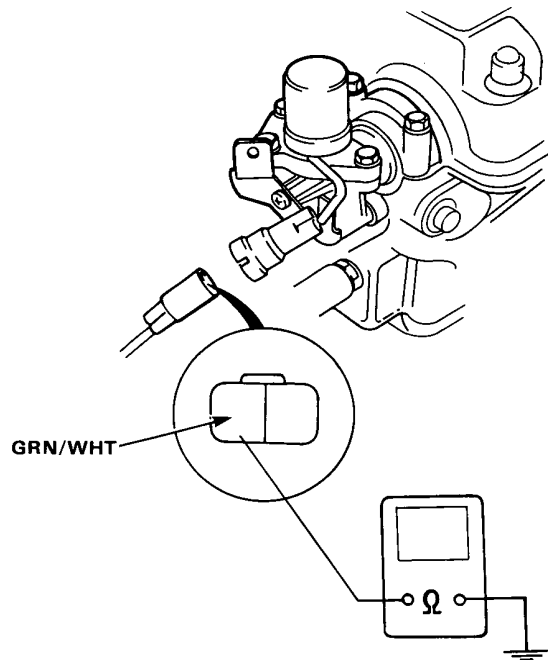
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Check for continuity between GRN/WHT terminal (harness side) and body ground.



Does continuity exist ?

YES

Repair short in GRN/WHT wire between ECU and spool valve connector.

NO

Substitute a known-good ECU and recheck. If symptom/indication goes away replace the original ECU.