

Idle Control System

Automatic Transaxle (A/T) Gear Position Signal

This signals the ECM when the transmission is in **N** or **P** position.

Inspection of A/T Gear Position Signal.

Check the operation of the A/T gear position switch:

1. Turn the ignition switch ON (II).
2. Observe the A/T shift position indicator and select each position separately.

Does the indicator light properly?

NO

See the A/T gear position indicator inspection (see [section 14](#)).

YES

Check for a short in the wire (ATF PN line):

1. Turn the ignition switch OFF.
2. Disconnect the SOP (C412) connector from the gauge assembly.
3. Disconnect the 26P connector from the TCM.
4. Turn the ignition switch ON (II).
5. Measure voltage between ECM connector terminals B4 and A26.

Is there approx. 5V?

NO

Check for a short in the wire (ATF ON line):

1. Turn the ignition switch OFF.
2. Disconnect the ECM connector B (16P) from the ECM.
3. Check for continuity between ECM connector terminal B4 and body ground.

Is there continuity?

YES

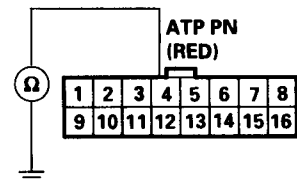
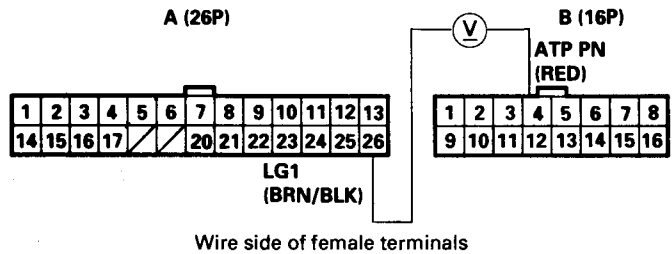
Repair short in the wire between the ECM (B4) and the gauge assembly.

NO

Substitute a known-good ECM and recheck (see [page 11-39](#) for immobilizer information). If prescribed voltage is now available, replace the original ECM.

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ECM CONNECTORS



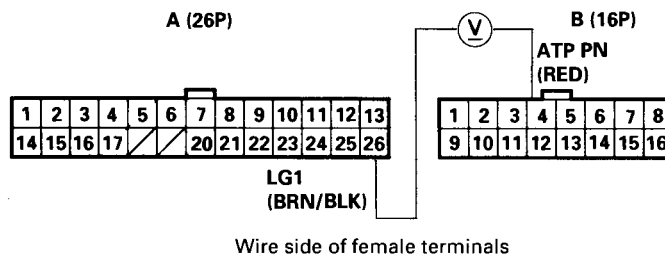


(From page 11-122)

Check for an open in the wire (ATF PN line):

1. Turn the ignition switch OFF.
2. Reconnect the 30P (C412) connector to the gauge assembly.
3. Reconnect the 26P connector to the TCM.
4. Start the engine.
5. Measure voltage between ECM connector terminals B4 and A26 with the transmission in **N** position.

ECM CONNECTORS



Wire side of female terminals

Is there less than 1.0 V?

NO

- Repair open in the wire between the ECM (B4) and the gauge assembly.
- Repair open in GRN wire between the gauge assembly and the A/T gear position switch.

YES

Check for an open in the wire (ATP PN line):

Measure voltage between ECM Connector terminals B4 and A26 with the transmission in **P** position.

Is there less than 1.0V?

NO

Repair open in GRN/WHT wire between the gauge assembly and the A/T gear position switch.

YES

A/T gear position signal is OK.