



Reference Voltage (VREF) Signal

Diagnostic Trouble Code (DTC) 3-4: The 5 V standard voltage (VREF)

Remove the ABS B2 (15 A) fuse in the under-hood fuse/relay box for more than 3 seconds to reset the TCS control unit.

Start the engine.

Confirm the TCS code (see page 19-98).

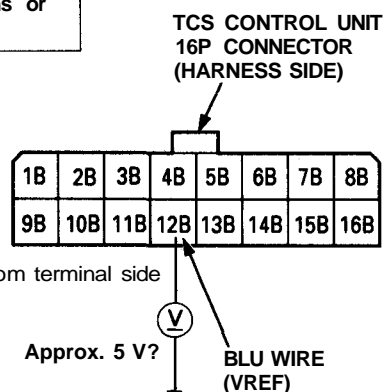
Is code 3-4 indicated?

NO

Intermittent failure.
Check for poor connections or loose wires.

YES

Measure the voltage between the TCS control unit 16P connector terminal 12B (+) and body ground.



Is there approx. 5 V?

YES

- Check for poor connections or loose wires.
- Substitute a known-good TCS control unit and recheck.

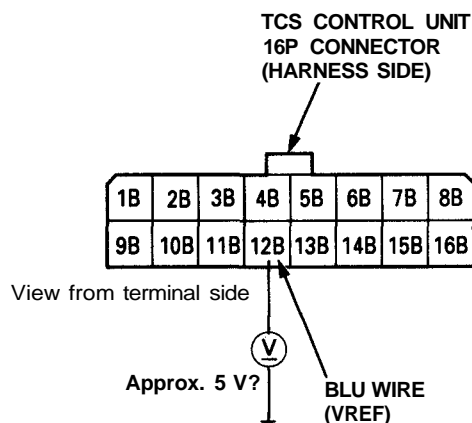
NO

Turn the ignition switch OFF.

Disconnect the 16P connector from the TCS control unit.

Turn the ignition switch ON.

Measure the voltage between the 16P connector terminal 12B (+) and body ground.



Is there approx. 5 V?

YES

Replace the TCS control unit and recheck.

NO

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(cont'd)

Troubleshooting

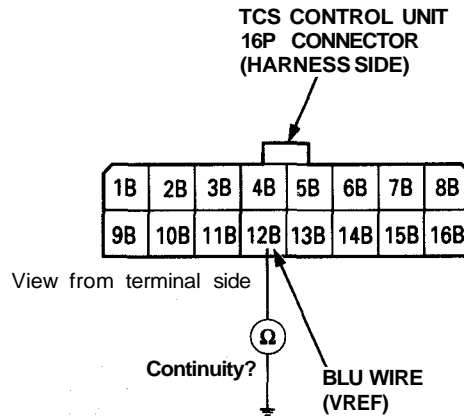
Reference Voltage (VREF) Signal (cont'd)

(From page 19-125)

Turn the ignition switch OFF.

Disconnect the 22P connector from the ECM or PCM.

Check for continuity between the TCS control unit 16P connector terminal 12B and body ground.



Is there continuity?

YES

Repair short in the BLU wire between the TCS control unit and ECM or PCM.

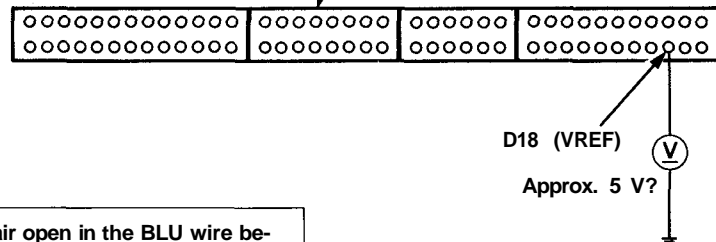
NO

Connect the test harness to the ECM or PCM (see section 11).

Turn the ignition switch ON.

Measure the voltage between the test harness D18 terminal (+) and body ground.

TEST HARNESS



Is there approx. 5 V?

YES

Repair open in the BLU wire between the TCS control unit and ECM or PCM.

NO

- Check for poor connections or loose wires.
- Substitute a known-good ECM or PCM and recheck.