



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.

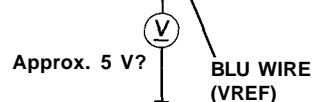
YES

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

TCS CONTROL UNIT
16P CONNECTOR
(HARNESS SIDE)

1B	2B	3B	4B	5B	6B	7B	8B
9B	10B	11B	12B	13B	14B	15B	16B

View from terminal side



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.

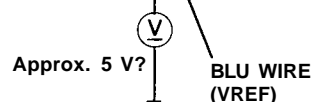
Turn the ignition switch ON.

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

TCS CONTROL UNIT
16P CONNECTOR
(HARNESS SIDE)

1B	2B	3B	4B	5B	6B	7B	8B
9B	10B	11B	12B	13B	14B	15B	16B

View from terminal side



Is there approx. 5 V?

YES

Replace the TCS control unit and recheck.

NO

(To page 19-126)

(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.

TCS CONTROL UNIT
16P CONNECTOR
(HARNESS SIDE)

1B	2B	3B	4B	5B	6B	7B	8B
9B	10B	11B	12B	13B	14B	15B	16B

View from terminal side

Continuity?

BLU WIRE
(VREF)

Is there continuity?

YES

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

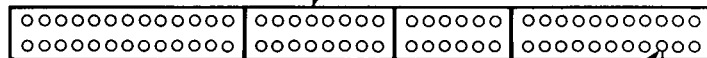
NO

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



D18 (VREF)

Approx. 5 V?

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.