

Troubleshooting

DTC 58: Engine Speed Signal

Check for a short to body ground in the NEP circuit:

1. Disconnect the VSA converter unit 26P connector, the PCM connector C (12P) and the gauge assembly 22P connector.
2. Check for continuity between the PCM connector C (12P) terminal No. 8 and body ground.

Is there continuity?

YES

Repair short to body ground in the wire between the VSA converter unit, PCM and the gauge assembly.

NO

Check the PCM:

1. Connect the PCM connector C (12P).
2. Start the engine.
3. Measure the voltage between the PCM connector C (12P) terminal No. 8 and body ground.

NOTE:

- Use the 10 V range or a similar range in an analog tester.
- Check with the engine idling and warmed-up.

Is there approx. 6 V?

NO

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

YES

Check for an open in the NEP circuit:

Measure the voltage between the VSA converter unit 26P connector terminal No. 21 and body ground.

NOTE:

- Use the 10 V range or a similar range in an analog tester.
- Check with the engine idling and warmed-up.

Is there approx. 6 V?

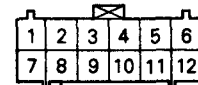
NO

Repair open in the wire between the PCM and the VSA converter unit.

YES

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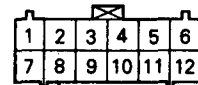
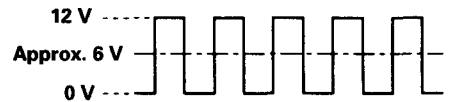
PCM CONNECTOR C (12P)



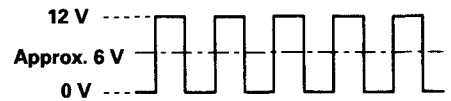
NEP (BLU)



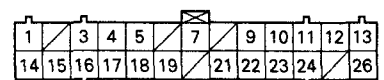
Wire side of female terminals



NEP (BLU)



VSA CONVERTER UNIT 26P CONNECTOR



NEP (BLU)



Wire side of female terminals

(cont'd)

Troubleshooting

DTC 58: Engine Speed Signal (cont'd)

(From page 19-3)

Check for a short to body ground in the SDLA circuit:

1. Turn the ignition switch OFF.
2. Disconnect the PCM connector E (26P).
3. Check for continuity between the VSA converter unit 26P connector terminal No. 9 and body ground.

Is there continuity?

YES

Repair short to body ground in the wire between the PCM and the VSA converter unit.

NO

Check for an open in the SDLA circuit:

Check for continuity between the VSA converter unit 26P connector terminal No. 9 and the PCM connector E (26P) terminal No. 20.

Is there continuity?

NO

Repair open in the wire between the PCM and the VSA converter unit.

YES

Check the VSA converter unit:

1. Connect the VSA converter unit 26P connector.
2. Turn the ignition switch ON (II).
3. Measure the voltage between the VSA converter unit 26P connector terminal No. 9 and body ground.

Is there about 10 V?

NO

Replace the VSA converter unit.

YES

Check the PCM:

1. Substitute a known-good PCM.
2. Connect all disconnected connectors.
3. Clear the DTC.
4. Test drive the vehicle.
5. Verify the DTC.

Is DTC 58 indicated?

NO

Replace the PCM.

YES

Check for loose terminals of the VSA control unit connector. If necessary, substitute a known-good VSA modulator-control unit and recheck.

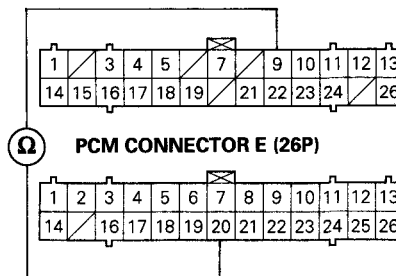
VSA CONVERTER UNIT 26P CONNECTOR

SDLA (WHT/GRN)



Wire side of female terminals

SDLA (WHT/GRN)

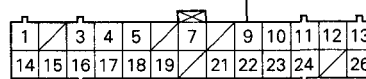


SDLA (WHT/GRN)

Wire side of female terminals

VSA CONVERTER UNIT 26P CONNECTOR

SDLA (WHT/GRN)



Wire side of female terminals