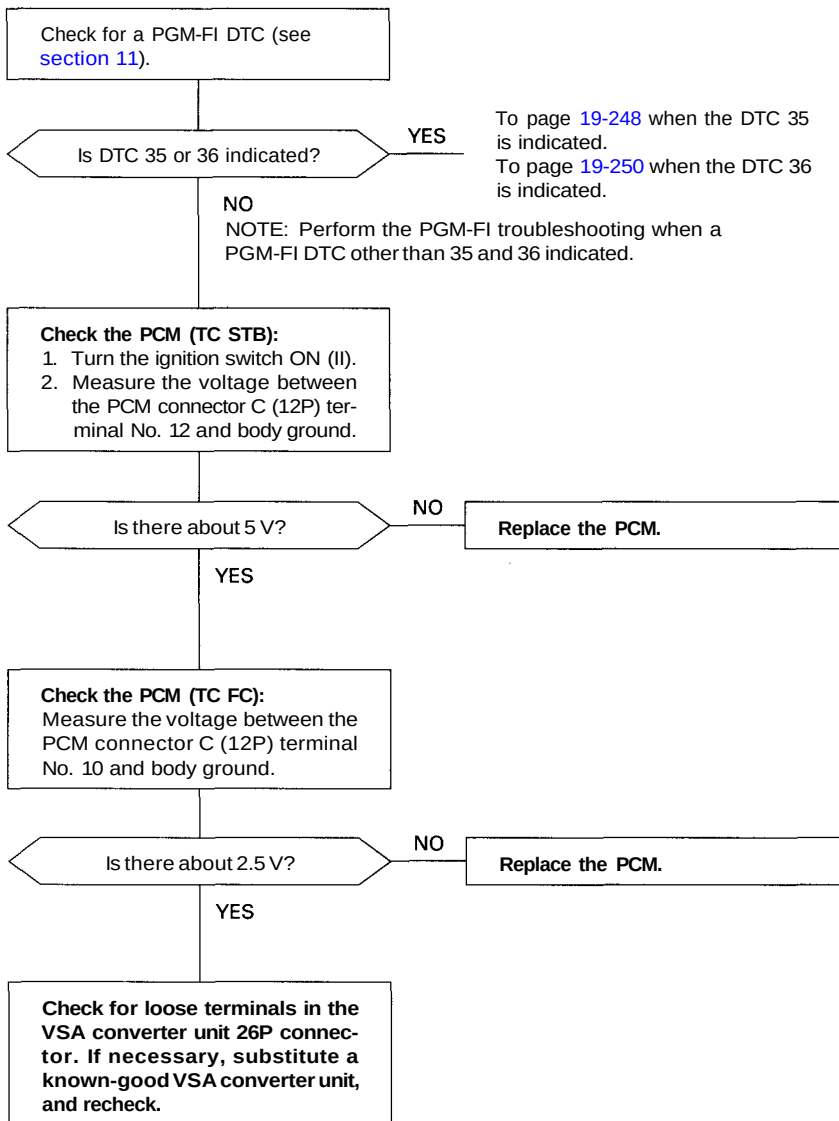
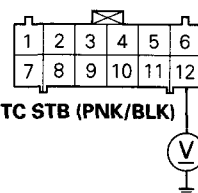


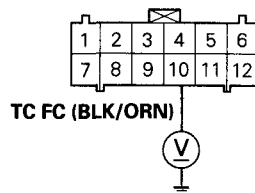
DTC 83: VSA Inhibition



PCMCONNECTORC(12P)



Wire side of female terminals



(cont'd)

Troubleshooting

DTC 83: VSA Inhibition (cont'd)

(With DTC 35 from page 19-247)

Check for a short to body ground in the TC STB circuit:

1. Turn the ignition switch OFF.
2. Disconnect the PCM connector C (12P) and the VSA converter unit 26P connector.
3. Check for continuity between the VSA converter unit 26P connector terminal No. 24 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 a short to body ground in the TC FC circuit:

Check for continuity between the VSA converter unit 26P connector terminal No. 22 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 the VSA converter unit (TC STB):

1. Connect the VSA converter unit 26P connector and the PCM connector C (12P).
2. Raise the front of the vehicle, and support it with safety stands.
3. Start the engine.
4. Measure the voltage between the VSA converter unit 26P connector terminal No. 24 and body ground.

Is the voltage as specified?

- VSA is functioning: about 0 V
- VSA is not functioning: about 5 V

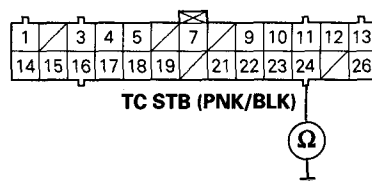
NO

Check for loose terminals in the VSA converter unit 26P connector. If necessary, substitute a known-good VSA converter unit, and recheck.

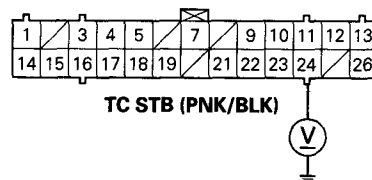
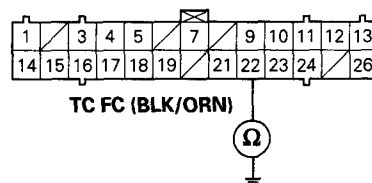
YES

NOTE: Stop the wheels by pressing the brake pedal lightly.

VSA CONVERTER UNIT 26P CONNECTOR



Wire side of female terminals



(To page 19-249)

(From page 19-248)

Check the VSA converter unit (TCFC):

Measure the voltage between the VSA converter unit 26P connector terminal No. 22 and body ground.

NOTE: Use the 10 V range or a similar range in an analog tester.

Is the voltage as specified?

- VSA is functioning (maximum): about 1.5V
- VSA is not functioning: about 4.5V

NO

Check for loose terminals in the VSA converter unit 26P connector. If necessary, substitute a known-good VSA converter unit, and recheck.

YES

NOTE: Stop the wheels by pressing the brake pedal lightly.

Check for an open in the TC STB circuit:

Measure the voltage between the PCM connector C (12P) terminal No. 12 and body ground.

Is there about 5 V when VSA is not functioning?

NO

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

YES

Check for an open in the TC FC circuit:

Measure the voltage between the PCM connector C (12P) terminal No. 10 and body ground.

NOTE: Use the 10 V range or a similar range in an analog tester.

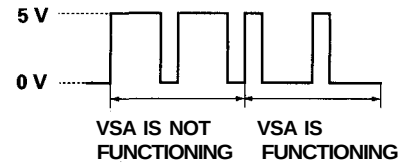
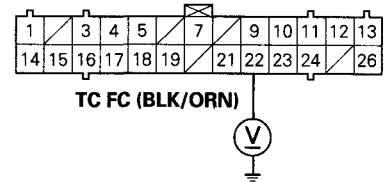
Is there about 4.5 V when VSA is not functioning?

NO

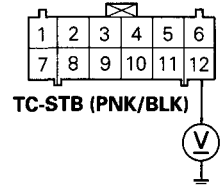
Repair open in the wire between the VSA converter unit and the PCM.

YES

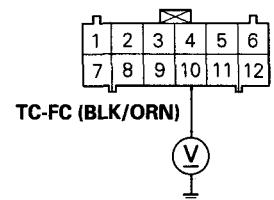
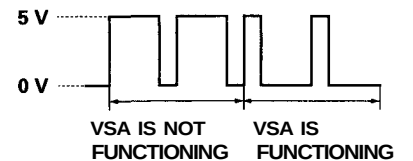
Check for loose terminals in the PCM connectors. If necessary, substitute a known-good PCM, and recheck.

**VSA CONVERTER UNIT 26P CONNECTOR**

Wire side of female terminals

PCM CONNECTOR C (12P)

Wire side of female terminals



(cont'd)

Troubleshooting

DTC 83: VSA Inhibition (cont'd)

(With DTC 36 from page 19-247)

Check for a short to body ground in the TC FC circuit:

1. Turn the ignition switch OFF.
2. Disconnect the PCM connector C (12P) and the VSA converter unit 26P connector.
3. Check for continuity between the VSA converter unit 26P connector terminal No. 22 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 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. 22 and body ground.

NOTE: Use the 10 V range or a similar range in an analog tester.

Is there about 4.5 V when VSA is not functioning?

NO

Check for loose terminals in the VSA converter unit 26P connector. If necessary, substitute a known-good VSA converter unit, and recheck.

YES

Check for an open in the TC FC circuit:

Measure the voltage between the PCM connector C (12P) terminal No. 10 and body ground.

NOTE: Use the 10 V range or a similar range in an analog tester.

Is there about 4.5 V when VSA is not functioning?

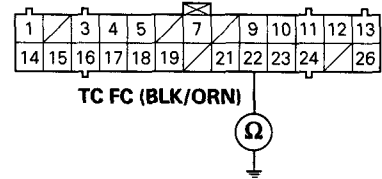
NO

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

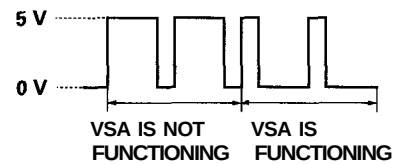
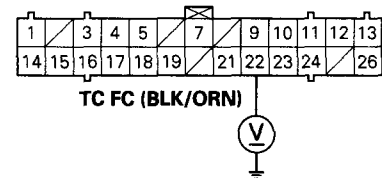
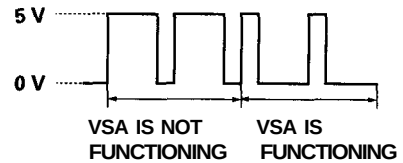
YES

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

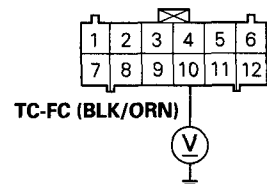
VSA CONVERTER UNIT 26P CONNECTOR



Wire side of female terminals



PCM CONNECTOR C (12P)



Wire side of female terminals