

Troubleshooting

DTC 94: TCS Control Valve Sensor

NOTE: When both the VSA system indicator and the MIL are ON, troubleshoot the PGM-FI system first.

Check for an open in the VCC2 circuit:

1. Disconnect the TCS control valve sensor 3P connector.
2. Turn the ignition switch ON (II).
3. Measure the voltage between the TCS control valve sensor 3P connector terminal No. 3 and body ground.

Is there about 5 V?

NO

Repair open in the wire between the PCM and the TCS control valve sensor.

YES

Check for an open in the SG2 circuit:

Measure the voltage between the TCS control valve sensor 3P connector terminal No. 1 and No. 3.

Is there about 5 V?

NO

Repair open in the wire between the PCM and the TCS control valve sensor.

YES

Check for a short to body ground in the THL2 circuit:

1. Turn the ignition switch OFF.
2. Disconnect the VSA converter unit 26P connector.
3. Check for continuity between the TCS control valve sensor 3P connector terminal No. 2 and body ground.

Is there continuity?

YES

Repair short to body ground in the wire between the TCS control valve sensor and the VSA converter unit.

NO

Check for an open in the THL2 circuit:

Check for continuity between the VSA converter unit 26P connector terminal No. 5 and the TCS control valve sensor 3P connector terminal No. 2.

Is there continuity?

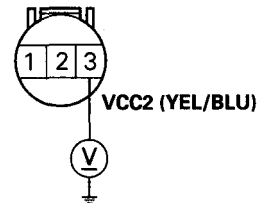
NO

Repair open in the wire between the TCS control valve sensor and the VSA converter unit.

YES

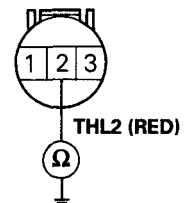
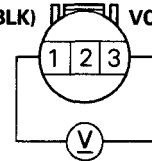
(To page 19-259)

TCS CONTROL VALVE SENSOR 3P CONNECTOR



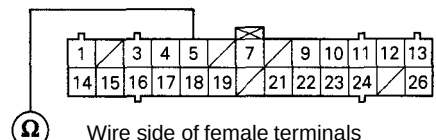
Wire side of female terminals

SG2 (GRN/BLK) VCC2 (YEL/BLU)



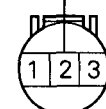
VSA CONVERTER UNIT 26P CONNECTOR

THL2 (RED)



Wire side of female terminals

THL2 (RED)



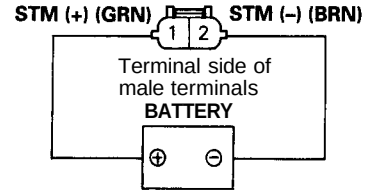
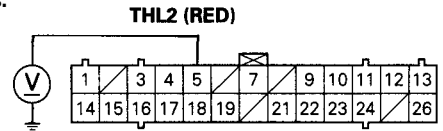
(From page 19-258)

Check the TCS control valve sensor:

1. Remove the intake air duct (see page 19-272).
2. Turn the ignition switch ON (II).
3. Connect the battery and TCS control valve actuator.
4. Measure the voltage between the VSA converter unit 26P connector terminal No. 5 and body ground.

CAUTION:

- Be careful not to short the terminals.
- After checking, disconnect the terminals.

TCS CONTROL VALVE ACTUATOR 2P CONNECTOR**VSA CONVERTER 26P CONNECTOR**

Wire side of female terminals

Is the voltage as specified?

- Fully closed: about 0.5 V
- Fully open: about 4.5 V

NOTE: There should be a smooth transition from about 4.5 V to 0.5 V as the TCS control valve is closed.

NO

Replace the TCS control valve sensor (faulty TCS control valve sensor).

YES

- The system is OK at this time.
- If the problem recurs, replace the VSA converter unit.