

Troubleshooting

Wheel Sensor

Diagnostic Trouble Code (DTC) 4-1 (Right-front), 4-2 (Left-front), 4-4 (Right-rear), 4-8 (Left-rear):

Wheel Sensor Diagnosis

The TCS indicator light comes on when the average speed of either the right or left rear wheels exceeds 9 mph (15 km/h) and the ABS control unit signal stops for more than 3 seconds.

- With engine running, TCS indicator light is ON.
- ABS indicator light is OFF.
- With the SCS service connector connected (see page 19-159), DTCs 4-1, 4-2, 4-4 and/or 4-8 are indicated.

NOTE: When both the TCS indicator light and the ABS indicator light are ON, troubleshoot the ABS first.

Confirm the ABS DTC
(*96 - 97 models: see page 19-40
*98-99 models: see page 19-119)

***96 -97 models:**
Is code 4-1, 4-2, 4-4 and/or 4-8 indicated?
***98 - 99 models:**
Is code 11, 13, 15 and/or 17 indicated?

YES

Perform the appropriate ABS troubleshooting for the code (see page 19-65 or 19-126).

NO

Check for an short to body ground in the FRP, FLP, RRP and/or RLP circuit:

1. Turn the ignition switch OFF.
2. Disconnect the TCS control unit 14P and ABS control unit 26P or 22P connectors.
3. Check for continuity between the TCS control unit 14P connector appropriate terminal* and body ground.

*

DTC	Appropriate Terminal
4-1 (Right-front)	No. 1: FRP
4-2 (Left-front)	No. 3: FLP
4-4 (Right-rear)	No. 5: RRP
4-8 (Left-rear)	No. 7: RLP

Is there continuity?

YES

Repair short to body ground in the wire between the TCS control unit and ABS control unit.

NO

Check the TCS control unit:

1. Connect the TCS control unit connector.
2. Turn the ignition switch ON (II).
3. Measure the voltage between the TCS control unit connector appropriate terminal* and body ground.

Is there about 5 V?

NO

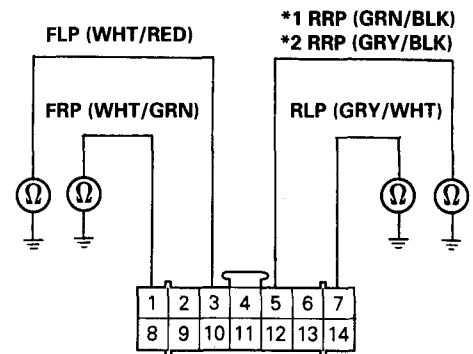
Check for loose TCS control unit connectors. If necessary, substitute a known-good TCS control unit and recheck.

YES

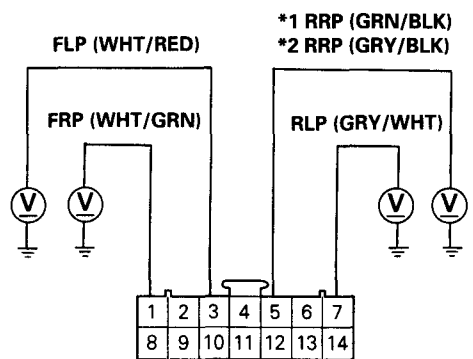
To page 19-183

*1 '96-97 models
*2 '98 -99 models

TCS CONTROL UNIT 14P CONNECTOR



Wire side of female terminals



From page 19-182

Check for an open in the FRP, FLP, RRP and/or RLP circuit:
Measure the voltage between the ABS control unit 26P or 22P connector appropriate terminal* and body ground.

* '96 - '97 models

DTC	Appropriate Terminal
4-1 (Right-front)	No. 6: FRP
4-2 (Left-front)	No. 4: FLP
4-4 (Right-rear)	No. 20: RRP
4-8 (Left-rear)	No. 18: RLP

* '98 - '99 models

DTC	Appropriate Terminal
4-1 (Right-front)	No. 5: FRP
4-2 (Left-front)	No. 3: FLP
4-4 (Right-rear)	No. 15: RRP
4-8 (Left-rear)	No. 13: RLP

Is there about 5 V?

YES

NO

Repair open in the wire between the ABS control unit and TCS control unit.

Check the ABS control unit:

1. Turn the ignition switch OFF.
2. Connect the ABS control unit 26P or 22P connector.
3. Raise the vehicle, and support it with safety stands.
4. Turn the ignition switch ON (II).
5. Rotate the appropriate wheel*, and measure the voltage between the ABS control unit 26P or 22P connector appropriate terminal* and body ground.

Is there about 2.5 V?

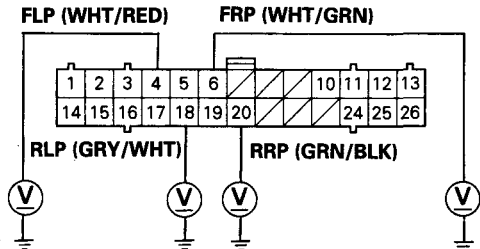
YES

NO

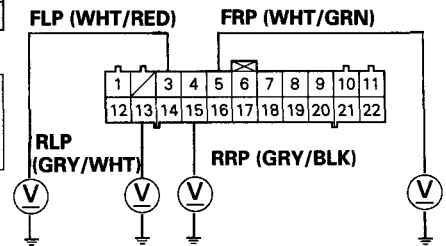
Check for loose ABS control unit connectors. If necessary, substitute a known-good ABS control unit and recheck.

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

'96 - '97 models
ABS CONTROL UNIT 26P CONNECTOR



'98 - '99 models
ABS CONTROL UNIT 22P CONNECTOR



Wire side of female terminals

