

Left-front Wheel Sensor

Diagnostic Trouble Code (DTC) 4-2: Left-front Wheel Sensor Diagnosis

The ABS control unit monitors the wheel sensor signal during the regular diagnosis (at speeds of 6 mph (10 km/h) or more). This diagnosis is not performed when the parking brake signal is ON.

The ABS control unit turns the ABS indicator light on if it detects that there is no wheel sensor signal from the left-front wheel.

Possible causes:

- Open circuit, internal short or short to body ground in the left-front wheel sensor
- Open circuit or short to body ground in the positive (+) wire between the left-front wheel sensor and ABS control unit
- Open circuit or short to body ground in the negative (-) wire between the left-front wheel sensor and ABS control unit
- Positive (+) wire shorted to the negative (-) wire between the left-front wheel sensor and ABS control unit
- Loose connector or poor contact of terminals
- Improper left-front wheel sensor air gap
- Faulty ABS control unit
- Missing left-front pulser
- Modulator does not decrease pressure properly
- Wheel lock by downshift

— With engine running, ABS indicator light is ON.
— With the SCS short connector connected (see page 19-60), DTC 4-2 is indicated.

Disconnect the left-front wheel sensor 2P connector.

Measure the resistance between the wheel sensor 2P connector No. 1 and No. 2 terminals.

Is there 600 – 900 Ω ?

NO

Replace the left-front wheel sensor.

YES

Check for continuity between the wheel sensor 2P connector No. 2 terminal and body ground.

Is there continuity?

YES

Replace the left-front wheel sensor.

NO

Disconnect the ABS control unit 22P connector.

Check for continuity between the ABS control unit 22P connector No. 3 (GRN/BLU) terminal and body ground.

NOTE: Check with the wheel sensor 2P connector disconnected.

Is there continuity?

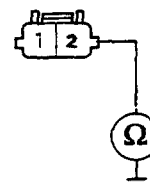
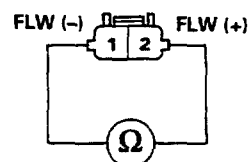
YES

Repair short to body ground in the GRN/BLU wire between the ABS control unit and left-front wheel sensor.

NO

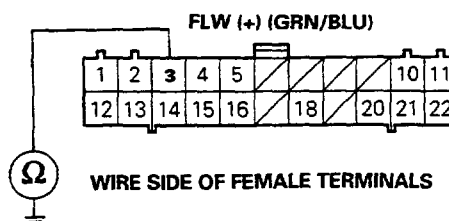
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LEFT-FRONT WHEEL SENSOR 2P CONNECTOR



WIRE SIDE OF FEMALE TERMINALS

ABS CONTROL UNIT 22P CONNECTOR



WIRE SIDE OF FEMALE TERMINALS

(cont'd)

Troubleshooting

Left-front Wheel Sensor (cont'd)

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Check for continuity between the ABS control unit 22P connector No. 2 (BRN/BLK) terminal and body ground.

Is there continuity?

YES

Repair short to body ground in the BRN/BLK wire between the ABS control unit and left-front wheel sensor.

NO

Connect the left-front wheel sensor 2P connector.

Measure the resistance between the ABS control unit 22P connector No. 2 (BRN/BLK) and No. 3 (GRN/BLU) terminals.

Is there 600 – 900 Ω ?

NO

Connect the ABS control unit 22P connector No. 3 (GRN/BLU) terminal to body ground.

YES

Disconnect the left-front wheel sensor 2P connector.

Check for continuity between the wheel sensor 2P connector No. 2 (GRN/BLU) terminal and body.

Is there continuity?

NO

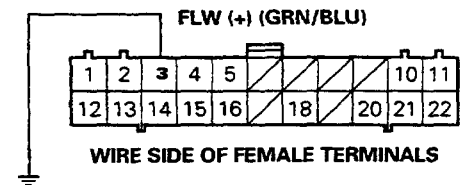
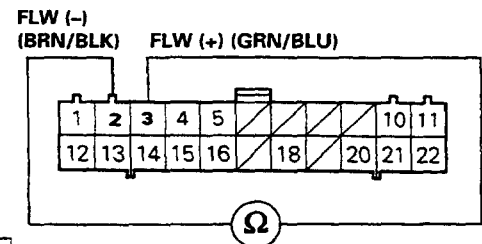
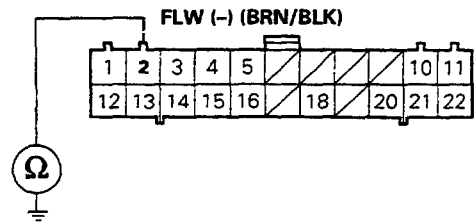
Repair open in the GRN/BLU wire between the ABS control unit and left-front wheel sensor.

YES

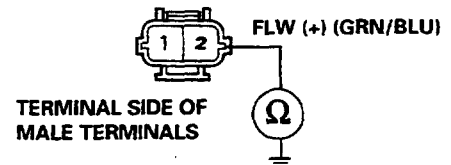
Repair open in the BRN/BLK wires between the ABS control unit and left-front wheel sensor.

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ABS CONTROL UNIT 22P CONNECTOR



LEFT-FRONT WHEEL SENSOR 2P CONNECTOR



NOTE: Check with the ABS control unit 22P connector disconnected.

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