

## Left-rear Wheel Sensor

### Diagnostic Trouble Code (DTC) 4-8: Left-rear 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-rear wheel.

Possible causes:

- Open circuit, internal short or short to body ground in the left-rear wheel sensor
- Open circuit or short to body ground in the positive (+) wire between the left-rear wheel sensor and ABS control unit
- Open circuit or short to body ground in the negative (-) wire between the left-rear wheel sensor and ABS control unit
- Positive (+) wire shorted to the negative (-) wire between the left-rear wheel wheel sensor and ABS control unit
- Loose connector or poor contact of terminals
- Improper left-rear wheel sensor air gap
- Faulty ABS control unit
- Missing left-rear pulser
- Modulator does not decrease pressure properly
- Both front wheels spin (for example, when wheels are stuck)

— With engine running, ABS indicator light is ON.  
— With the SCS short connector connected (see page 19-60), DTC 4-8 is indicated.

Disconnect the left-rear wheel sensor 2P connector.

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

Is there 700 – 1,100  $\Omega$ ?

NO

Replace the left-rear 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-rear wheel sensor.

NO

Disconnect the ABS control unit 22P connector.

Check for continuity between the ABS control unit 22P connector No. 13 (LT BLU) terminal and body ground.

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

Is there continuity?

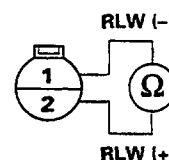
YES

Repair short to body ground in the LT BLU wire between the ABS control unit and left-rear wheel sensor.

NO

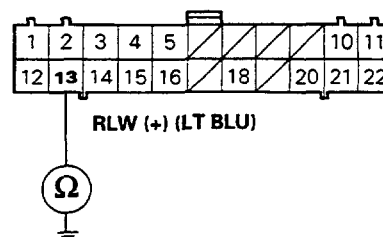
(To page 19-98)

#### LEFT-REAR WHEEL SENSOR 2P CONNECTOR



#### WIRE SIDE OF FEMALE TERMINALS

#### ABS CONTROL UNIT 22P CONNECTOR



#### WIRE SIDE OF FEMALE TERMINALS

(cont'd)

# Troubleshooting

## Left-rear Wheel Sensor (cont'd)

(From page 19-97)

Check for continuity between the ABS control unit 22P connector No. 16 (GRY) terminal and body ground.

Is there continuity?

YES

Repair short to body ground in the GRY wire between the ABS control unit and left-rear wheel sensor.

NO

Connect the left-rear wheel sensor 2P connector.

Measure the resistance between the ABS control unit 22P connector No. 13 (LT BLU) and No. 14 (GRY) terminals.

Is there 700 – 1,100  $\Omega$ ?

NO

Connect the ABS control unit 22P connector No. 13 (LT BLU) terminal to the body ground.

YES

Disconnect the left-rear wheel sensor 2P connector.

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

Is there continuity?

NO

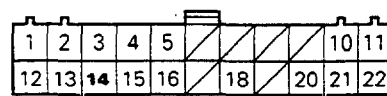
Repair open in the LT BLU wire between the ABS control unit and left-rear wheel sensor.

YES

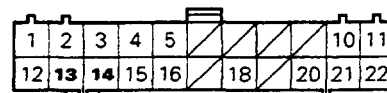
Repair open in the GRY wire between the ABS control unit and left-rear wheel sensor.

(To page 19-99)

ABS CONTROL UNIT 22P CONNECTOR

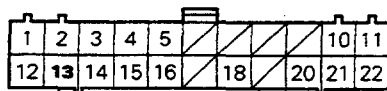


RLW (-) (GRY)



RLW (+) (LT BLU)

RLW (-) (GRY)



RLW (+) (LT BLU)

WIRE SIDE OF FEMALE TERMINALS

LEFT-REAR WHEEL SENSOR 2P CONNECTOR



RLW (+) (LT BLU)



TERMINAL SIDE OF MALE TERMINALS

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

(From page 19-98)

Measure the left-rear wheel sensor air gap (see page 19-143).

Is the air gap OK?

NO

Correct the left-rear wheel sensor air gap.

YES

Connect the ALB checker to the ABS inspection connector (see page 19-129).

Start the engine.

Turn the Mode Selector switch to "2".

Depress the brake pedal firmly and hold it.

Push the Start Test switch.

Confirm that the left-rear wheel can be rotated by hand while the ABS is functioning.

NOTE: This step requires an assistant.

Can the wheel be rotated?

NO

Replace the modulator unit.

YES

- Intermittent failure, the system is OK at this time.
- Test drive the car. If the symptom reappears, replace the ABS control unit.

