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|-----|----------|--|
| DTC | C0210/33 | RIGHT REAR SPEED SENSOR CIRCUIT |
| DTC | C0215/34 | LEFT REAR SPEED SENSOR CIRCUIT |
| DTC | C1238/38 | FOREIGN MATTER IS ATTACHED ON TIP OF RIGHT REAR SENSOR |
| DTC | C1239/39 | FOREIGN MATTER IS ATTACHED ON TIP OF LEFT REAR SENSOR |

CIRCUIT DESCRIPTION

Refer to DTC C0200/31, C0205/32, C1235/35, C1236/36 on page 05-305.

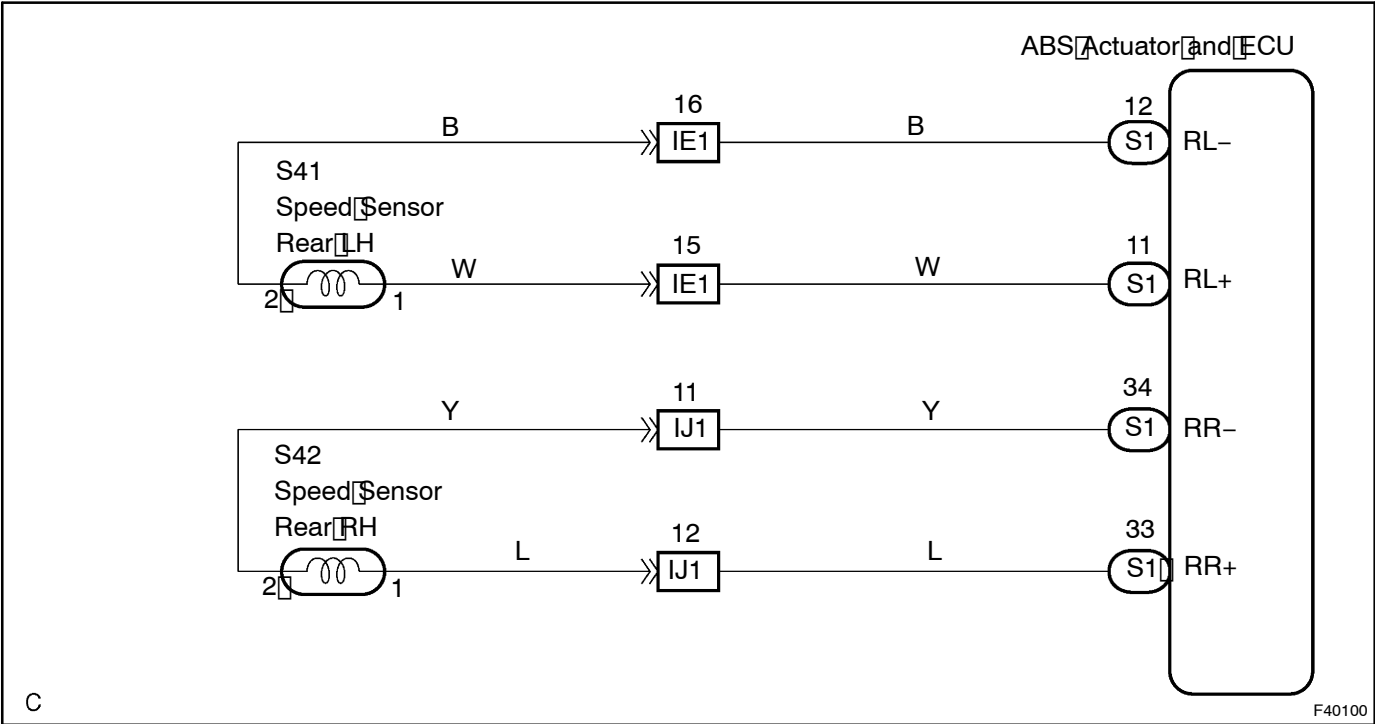
| DTC No. C0200/ | DTC Detecting Condition | Trouble Area |
|--|---|---|
| C0210/33 C0215/34 C1238/38 C1239/39 | Detection of any conditions from 1. through 4.: 1. With vehicle speed at 10 km/h or more, sensor signal circuit of faulty wheel is open or short for 15 sec. or longer. 2. Momentary interruption of sensor signal of faulty wheel has occurred 7 times or more. 3. With vehicle speed at 20 km/h or more, sensor signal of faulty wheel generated noise for 5 sec. or longer. 4. Sensor signal circuit is open for 0.025 sec. or longer. | <ul style="list-style-type: none">• Right rear, left rear skid control sensor• Each skid control sensor circuit• Sensor installation• Sensor rotor |

HINT:

DTC No. C0210/33, C1238/38 is for the right rear skid control sensor.

DTC No. C0215/34, C1239/39 is for the left rear skid control sensor.

WIRING DIAGRAM



C

F40100

INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 in case of using the hand-held tester and start from step 2 in case of not using hand-held tester.

1 READ VALUE OF HAND-HELD TESTER (SKID CONTROL SENSOR)

- (a) Check the difference between the speed value output from the speed sensor displayed on the hand-held tester and the speed value displayed on the speedometer when driving the vehicle.

OK:

There is almost no difference in the displayed speed value.

HINT:

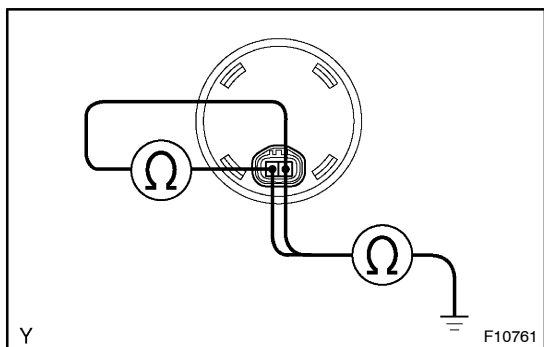
There is $\pm 10\%$ tolerance in the speedometer indication.

OK

CHECK AND REPLACE BRAKE ACTUATOR ASSY

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2 INSPECT SKID CONTROL SENSOR



- (a) Disconnect the skid control sensor connector.
 (b) Measure resistance between terminals 1 and 2 of the skid control sensor connector.

Resistance: $2.2\text{ k}\Omega$ or less at 20°C (68°F)

- (c) Measure resistance between each of terminals 1 and 2 of skid control sensor connector and body ground.

Resistance: $1\text{ M}\Omega$ or higher

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REPLACE SKID CONTROL SENSOR

NOTICE:

Check the skid control sensor signal ast (See page 05-295).

OK

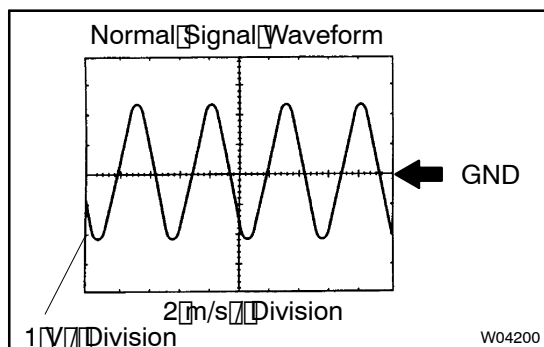
3 CHECK HARNESS AND CONNECTOR (SKID CONTROL SENSOR - BRAKE ACTUATOR ASSEMBLY) (See page 01-30)

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 INSPECT SENSOR AND SENSOR ROTOR SERRATIONS



(REFERENCE) INSPECTION USING OSCILLOSCOPE

- Connect the oscilloscope to the terminals RR+–RR– and RL+–RL– of the Skid Control ECU.
- Drive the vehicle at about 30 km/h (19 mph), and check the signal waveform.

HINT:

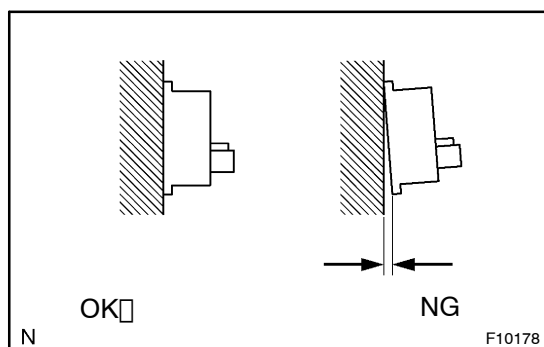
Check if the foreign objects stick on the sensor tip when noise occurs.

OK

CHECK AND REPLACE BRAKE ACTUATOR ASSY

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5 INSPECT SKID CONTROL SENSOR INSTALLATION



- Check the sensor installation.

OK:

There is no clearance between the sensor and rear axle carrier.

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REPLACE SKID CONTROL SENSOR

NOTICE:

Check the skid control sensor signal last (See page 05-295).

OK

6 INSPECT SKID CONTROL SENSOR TIP

- Remove the skid control sensor (See page 32-48).
- Check the sensor tip.

OK:

No scratches or foreign objects on the sensor tip.

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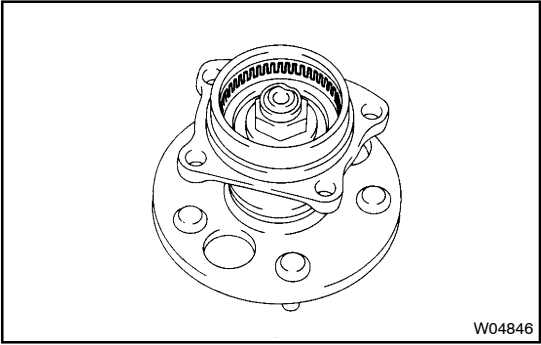
REPLACE SKID CONTROL SENSOR

NOTICE:

Check the skid control sensor signal last (See page 05-295).

OK

7 INSPECT SENSOR ROTOR



- (a) Check the sensor rotor serrations.
OK:
No scratches, missing teeth or foreign objects.

OK

CHECK AND REPLACE BRAKE ACTUATOR ASSY

NOTICE:
Check the skid control sensor signal last (See page 05-295).

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CLEAN OR REPLACE SENSOR ROTOR