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

CIRCUIT DESCRIPTION

 $Refer[]\!]o[]\!DTC[]\!C0200/31,[]\!C0205/32,[]\!C1235/35[]\!C1236/36[]\!]on[]\!]page[]\!]05-464.$

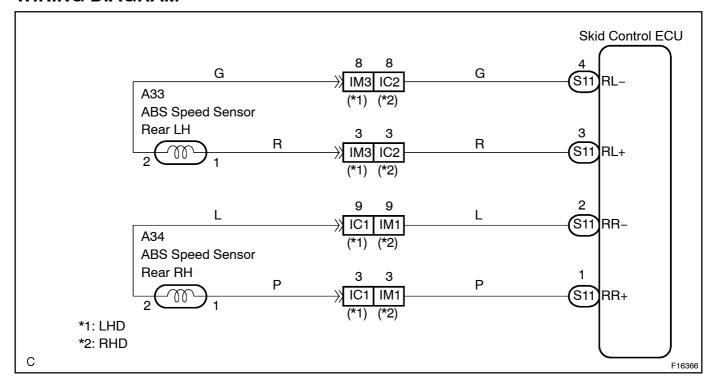
DTC[No.	DTC[Detecting[Condition	Trouble[Area
C0210/33 C0215/34	Detection of any of conditions from 1. Through .: 1. With vehicle speed at 10 km/h or more, sensor signal circuit of aulty wheel sopen or short for 15 sec. or longer. 2. Momentary Interruption of sensor signal of aulty wheel has occurred of mesor or more. 3. With vehicle speed at 20 km/h or more, sensor signal of faulty wheel one at a longer. 4. Sensor signal circuit open or 0.025 sec. or longer.	Right[]ear,[]eft[]ear[\$peed[\$ensor] Each[\$peed[\$ensor[oruit] Sensor[]nstallation Sensor[]otor
C1238/38 C1239/39	Continuous@noise@ccurs@n@o@nespeedsensor signals@vith@he@yehiclespeed@at@20@km/h@12@mph) or@nore@ontinues@or5sec@r@nore.	Bight[]ear,[]eft[]ear[\$peed[\$ensor Speed sensor rotor

HINT:

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

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

WIRING DIAGRAM



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(SPEED SENSOR OUTPUT VALUE)

- (a) Select the item "WHEEL SPEED RL (RR)" in the DATA LIST and read its value displayed on the hand-held tester.
- (b) Check that there is no 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 from the displayed speed value.

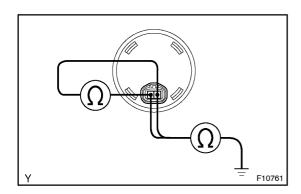
HINT:

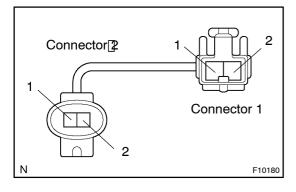
There is tolerance of \pm 10 % in the speedometer indication.



NG

2 | INSPECT[\$KID[CONTROL[\$ENSOR





Skid Control Sensor:

- (a) Make sure that there s no oseness at the connector lock part and connecting part of the connector.
- (b) ☐ Disconnect The sensor connector.
- (c) Measure resistance between erminals 1 and 2 of sensor connector.

OK: 1.2 - 1.6 k Ω at 20° C

(d) Measure resistance between terminals 1 and 2 fs ensor connector and body fround.

OK: 1 MΩ or higher

Rear[\$peed[\$ensor[\$ub-Wire[Harness:

- (a) Remove[the[seat]cushion[and[seatback.
- (b) Make sure that there s ho oseness at he connector lock art and connecting art of the connector.
- (c) Measure resistance between erminal 1 of connector 1 and erminal of connector 2.
- (d) Measure resistance between erminal 2 of connector 1 and erminal 1 of connector 2.

OK: 1 Ω or lower

(e) Measure desistance between derminals 1 and 2 of sensor connector 1 and ody ground.

OK: 10 MΩ[or[higher



REPLACE | SKID | CONTROL | SENSOR | OR SUB-WIRE | HARNESS

NOTICE:

Check[the[speed[sensor[signal[]ast[[See[page[05-451]].

OK

3∏

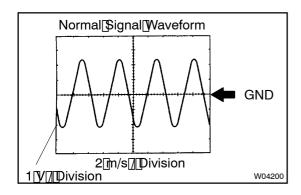
CHECK[HARNESS[AND[CONNECTOR(SKID[CONTROL[SENSOR -[SKID CONTROL[ECU[ASSY)(See[page[01-3]1)

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

4 CHECK SENSOR AND SENSOR ROTOR SERRATIONS



(REFERENCE)[INSPECTION[USING[OSCILLOSCOPE

- (a) Remove the skid control ECU with connectors still connected.
- (b) Connect he oscilloscope of heterminals RR+ RR- or RL+ RL- of heterminals RR+ RR- or RL+ RL- of the ontrol ECU.

Drive he lyehicle with about 20 km/h 12 mph), and check he signal waveform.

HINT:

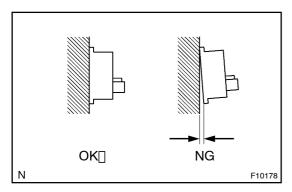
- As[the[vehicle[speed[(rpm[)of[]the[]wheels)]]ncreases,[a cycle[]of[]the[]waveform[]becomes[]shorter[]and[]the[]lucturation[]n[]the[]output[]voltage[]becomes[]greater.
- •□ When noise sidentified nthe waveform on the oscilloscope, error signals are generated due to the speed sensor otor scratches, looseness or foreign natter deposited on it.



CHECK[AND[REPLACE[SKID[CONTROL[ECU ASSY]

NG

5 | CHECK[\$KID[CONTROL[\$ENSOR[INSTALLATION



(a) ☐ Check ☐ the ☐ sensor ☐ installation.

OK:

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

NG

REPAIR OR REPLACE SKID CONTROL SENSOR

ОК

6 | CHECK[\$PEED[\$ENSOR[ROTOR[AND[\$ENSOR[TIP

NG

CLEAN OR REPLACE SPEED SENSOR AND SENSOR ROTOR SERRATIONS

NOTICE:

Check[the[speed[sensor[signal[last[See[page[05-451]].

OK

CHECK AND REPLACE SKID CONTROL ECU ASSY