

DTC	C1237/37	SPEED SENSOR ROTOR FAULTY
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CIRCUIT DESCRIPTION

The skid control ECU measures the speed of each wheel by receiving signals from the speed sensor. These signals are used for recognizing if all 4 wheels are operating properly. Therefore, all wheel signals must be equal.

DTC No.	DTC Detecting Condition	Trouble Area
C1237/37	Detection of any of conditions from 1 through 3: 1. Wheel speed deviation of unspecified wheel. 2. Wheel sensor signal failure suspicion. 3. Continuous ABS control for 60 sec. or more.	<ul style="list-style-type: none">• Sensor rotor• Speed sensor• Speed sensor circuit

INSPECTION PROCEDURE

1	INSPECT TIRE SIZE
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- (a) Check tire size and condition of all 4 wheels (See page [28-1](#)).

Standard:

The diameter and air pressure of the tires of all 4 wheels are the same.

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REPLACE TIRES SO THAT ALL 4 TIRES ARE SAME IN SIZE

OK

2	INSPECT SPEED SENSOR ROTOR (See page 05-884 AND 05-890)
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REPLACE SENSOR ROTOR

OK

3	INSPECT SPEED SENSOR (See page 05-884 AND 05-890)
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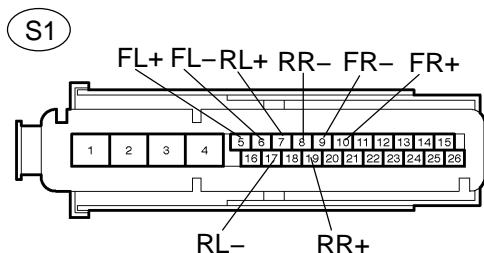
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REPLACE SPEED SENSOR

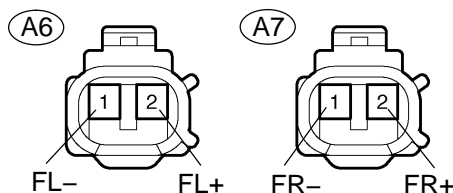
OK

4 CHECK HARNESS AND CONNECTOR(SPEED SENSOR – SKID CONTROL ECU)

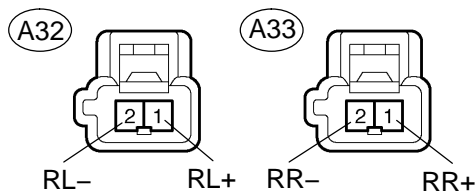
Skid Control ECU Connector Front View



Front Speed Sensor Connector Front View



Rear Speed Sensor Connector Front View



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- (a) Disconnect the skid control ECU connector, front speed sensor connectors and rear speed sensor connectors.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Front LH:

Tester Connection	Specified Condition
S1-5 (FL+) – A6-2 (FL+)	1 Ω or less
S1-6 (FL-) – A6-1 (FL-)	1 Ω or less

Front RH:

Tester Connection	Specified Condition
S1-10 (FR+) – A7-2 (FR+)	1 Ω or less
S1-9 (FR-) – A7-1 (FR-)	1 Ω or less

Rear LH:

Tester Connection	Specified Condition
S1-7 (RL+) – A32-1 (RL+)	1 Ω or less
S1-17 (RL-) – A32-2 (RL-)	1 Ω or less

Rear RH:

Tester Connection	Specified Condition
S1-19 (RR+) – A33-1 (RR+)	1 Ω or less
S1-8 (RR-) – A33-2 (RR-)	1 Ω or less

- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Front LH:

Tester Connection	Specified Condition
A6-2 (FL+) – Body ground	10 kΩ or higher
A6-1 (FL-) – Body ground	10 kΩ or higher

Front RH:

Tester Connection	Specified Condition
A7-2 (FR+) – Body ground	10 kΩ or higher
A7-1 (FR-) – Body ground	10 kΩ or higher

Rear LH:

Tester Connection	Specified Condition
A32-1 (RL+) – Body ground	10 kΩ or higher
A32-2 (RL-) – Body ground	10 kΩ or higher

Rear RH:

Tester Connection	Specified Condition
A33-1 (RR+) – Body ground	10 kΩ or higher
A33-2 (RR-) – Body ground	10 kΩ or higher

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE BRAKE ACTUATOR ASSY (See page 32-58)