

DTC	C1235/35	Foreign Object is Attached on Tip of Front Speed Sensor RH
DTC	C1236/36	Foreign Object is Attached on Tip of Front Speed Sensor LH
DTC	C1238/38	Foreign Object is Attached on Tip of Rear Speed Sensor RH
DTC	C1239/39	Foreign Object is Attached on Tip of Rear Speed Sensor LH

DESCRIPTION

The Skid Control ECU sets this DTC if, according to abnormal signals input by the sensor, it detects that foreign material is adhering to the speed sensor tip or the sensor rotor, or the rotor has any missing teeth. This DTC may be set if parts such as the speed sensor circuit connector or wire harness are malfunctioning.

DTC No.	DTC Detecting Conditions	Trouble Areas
C1235/35 C1236/36 C1238/38 C1239/39	<ul style="list-style-type: none"> At vehicle speed of 12 mph (20 km/h) or more, noise in speed sensor signal continues for 5 seconds or more. At vehicle speed of 6 mph (10 km/h) or more, noise detected as rotor turns, for 15 seconds or more. 	<ul style="list-style-type: none"> Speed sensor Speed sensor circuit Speed sensor rotor Brake actuator (skid control ECU)

HINT:

DTC C1235/35 relates to the front right speed sensor.

DTC C1236/36 relates to the front left speed sensor.

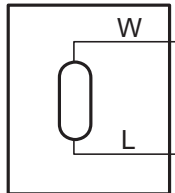
DTC C1238/38 relates to the rear right speed sensor.

DTC C1239/39 relates to the rear left speed sensor.

WIRING DIAGRAM

Skid Control ECU
with Actuator

S3
Front Speed
Sensor LH



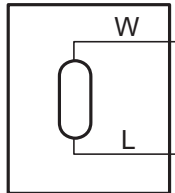
G

10
S1 FL+

R

9
S1 FL-

S4
Front Speed
Sensor RH



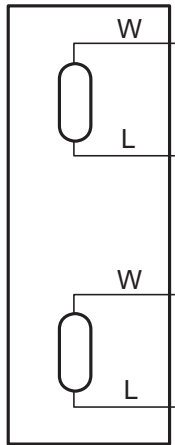
L

40
S1 FR+

P

39
S1 FR-

S22
Rear Speed
Sensor



14

15

5

6

15
S1 RL+

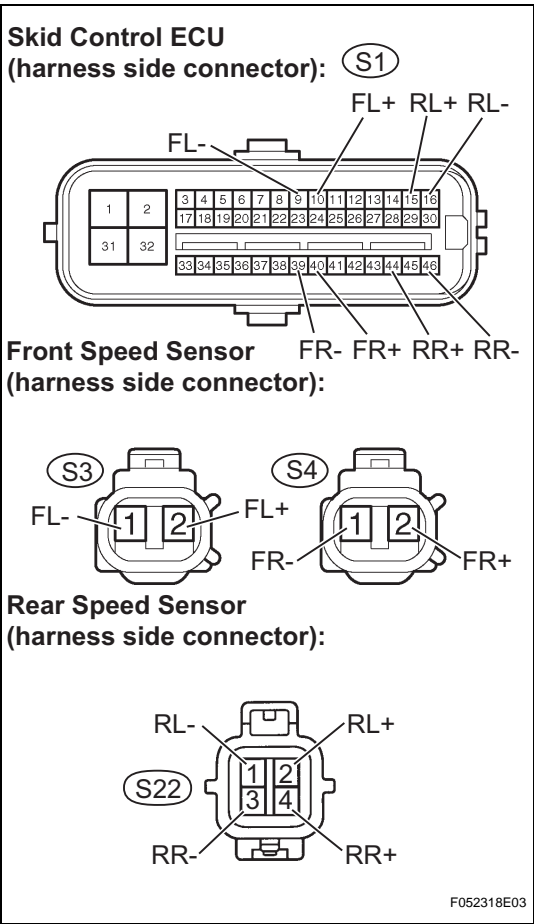
16
S1 RL-

44
S1 RR+

45
S1 RR-

BC

1 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - SPEED SENSOR)



- (a) Disconnect the skid control ECU connector.
- (b) Disconnect speed sensor connectors.
- (c) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-10 (FL+) - S3-2 (FL+)	Below 1 Ω
S1-9 (FL-) - S3-1 (FL-)	Below 1 Ω
S1-40 (FR+) - S4-2 (FR+)	Below 1 Ω
S1-39 (FR-) - S4-1 (FR-)	Below 1 Ω
S1-15 (RL+) - S22-2 (RL+)	Below 1 Ω
S1-16(RL-) - S22-1 (RL-)	Below 1 Ω
S1-44 (RR+) - S22-4 (RR+)	Below 1 Ω
S1-45 (RR-) - S22-3 (RR-)	Below 1 Ω

- (d) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-10 (FL+) - Body ground	10 kΩ or higher
S1-9 (FL-) - Body ground	10 kΩ or higher
S1-40 (FR+) - Body ground	10 kΩ or higher
S1-39 (FR-) - Body ground	10 kΩ or higher
S1-15 (RL+) - Body ground	10 kΩ or higher
S1-16(RL-) - Body ground	10 kΩ or higher
S1-44 (RR+) - Body ground	10 kΩ or higher
S1-45 (RR-) - Body ground	10 kΩ or higher

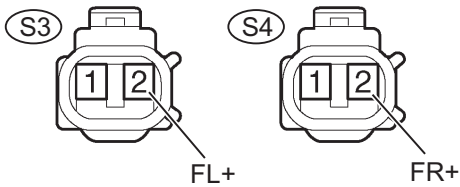
- (e) Reconnect speed sensor connectors.
- (f) Reconnect the skid control ECU connector.

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

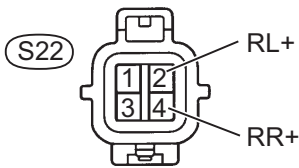
OK

2 INSPECT BRAKE ACTUATOR (TERMINAL VOLTAGE)

Front Speed Sensor
(harness side connector):



Rear Speed Sensor
(harness side connector):



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- (a) Disconnect the speed sensor connectors.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage.

Standard Voltage

Tester Connection	Specified Condition
S3-2 (FL+) - Body ground	7.5 to 12 V
S4-2 (FR+) - Body ground	7.5 to 12 V
S22-2 (RL+) - Body ground	7.5 to 12 V
S22-4 (RR-) - Body ground	7.5 to 12 V

- (d) Turn the ignition switch to OFF.
- (e) Reconnect the speed sensor connectors.

NG → **REPLACE BRAKE ACTUATOR**

OK

BC 3 RECONFIRM DTC

- (a) Clear the DTCs (See page [BC-16](#)).
- (b) Drive the vehicle at 6 mph (10 km/h) or more to activate initial check.
- (c) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A
DTC not output	B

B → **CHECK FOR INTERMITTENT PROBLEMS**

A

4 INSPECT SPEED SENSOR

- (a) Remove the speed sensor (See page [BC-303](#) or [BC-304](#)).
- (b) Check the sensor tip.

OK:

No scratches or foreign matter on the sensor tip.

NG → **CLEAN OR REPLACE SPEED SENSOR**

OK

CLEAN OR REPLACE SPEED SENSOR