

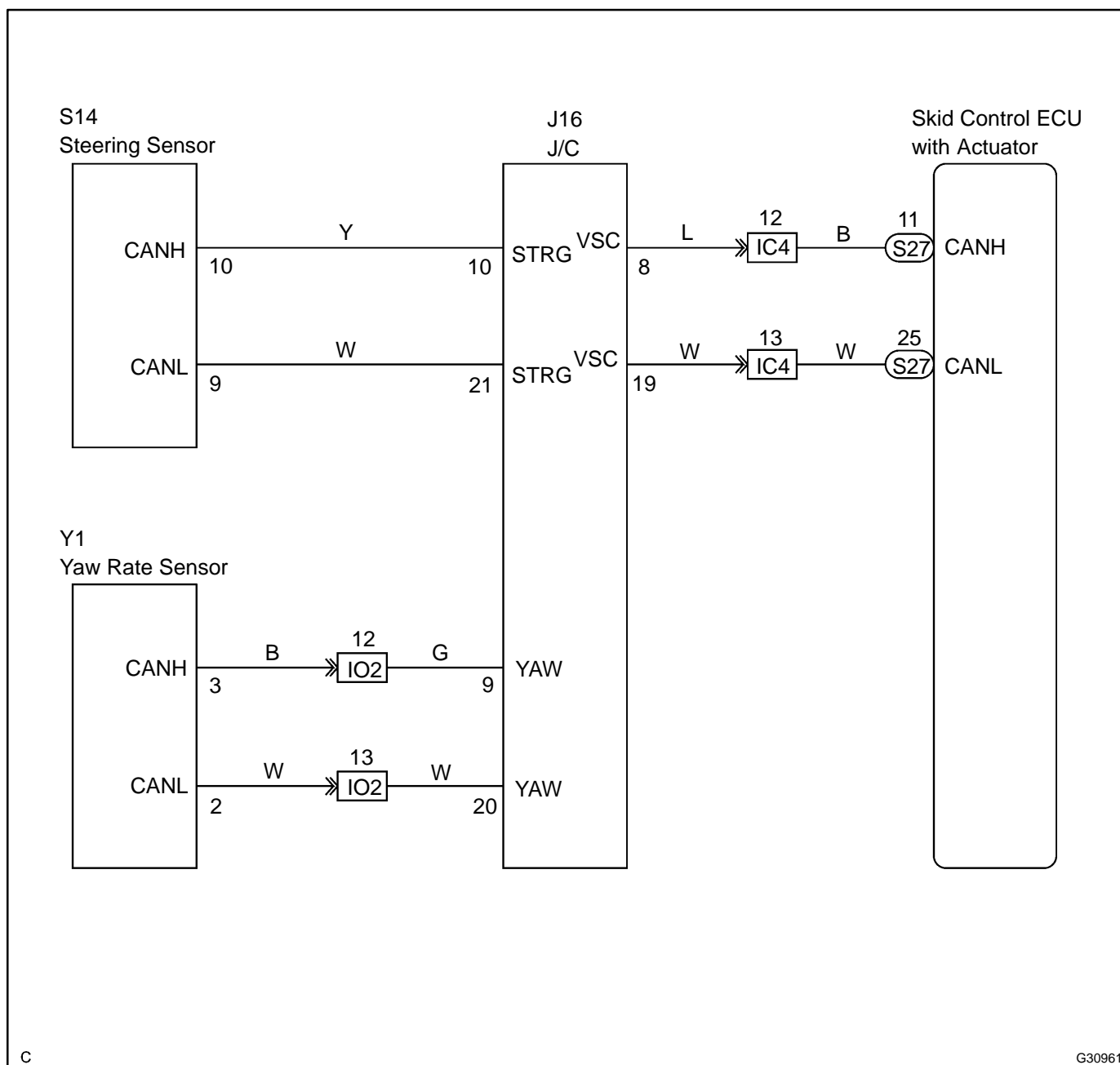
CHECK CAN BUS LINES FOR SHORT CIRCUIT

CIRCUIT DESCRIPTION

The CAN bus lines are considered to be shorted when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is below 54 Ω .

Symptom	Trouble Area
Resistance between terminals 6 (CANH) and 14 (CANL) of DLC3 is below 54 Ω .	<ul style="list-style-type: none"> • Short in CAN bus lines • Skid control ECU • Steering sensor • Yaw rate sensor

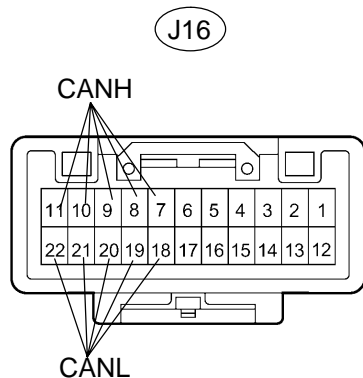
WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK CAN BUS LINES FOR SHORT(DLC3 SUB BUS LINE)

Junction Connector:

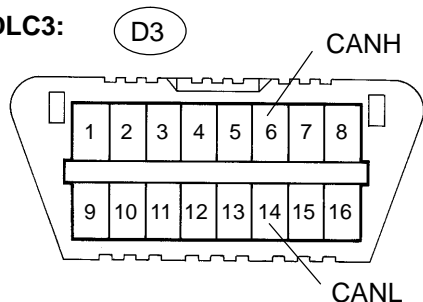


G25476

G26430

- Turn the ignition switch to the LOCK position.
- Disconnect the wire harness connector (J16) from the junction connector.

DLC3:

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C81825

G26206

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

Standard:

Tester connection	Condition	Specified value
D3-6 (CANH) - D3-14 (CANL)	Ignition SW OFF	1 MΩ or more

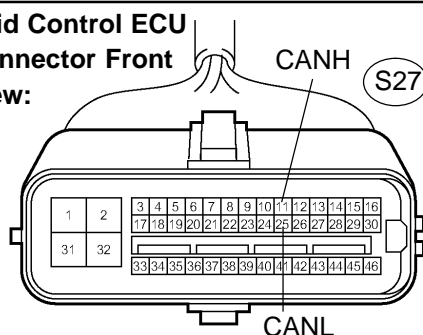
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REPAIR OR REPLACE DLC3 SUB BUS LINE OR CONNECTOR (CAN-H, CAN-L)

OK

2 CHECK CAN BUS LINES FOR SHORT(SKID CONTROL ECU - JUNCTION CONNECTOR)

Skid Control ECU Connector Front View:



H

E69126

- Disconnect the connector (S27) from the skid control ECU.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
S27-11 (CANH) - S27-25 (CANL)	Ignition SW OFF	1 MΩ or more

HINT:

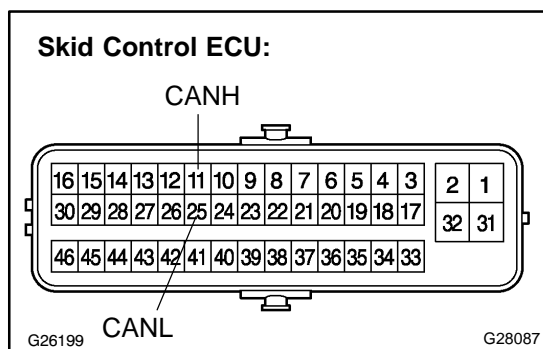
Check the wire harness connector connected to the junction connector while disconnecting it.

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REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (CAN-H, CAN-L)

OK

3 INSPECT SKID CONTROL ECU WITH ACTUATOR(CANH - CANL)



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

Standard:

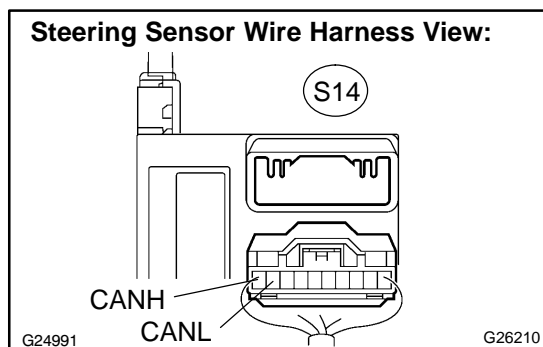
Tester connection	Condition	Specified value
11 (CANH) - 25 (CANL)	Ignition SW OFF	108 to 132 Ω

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REPLACE SKID CONTROL ECU WITH ACTUATOR (SEE PAGE 32-37)

OK

4 CHECK CAN BUS LINES FOR SHORT(STEERING SENSOR - JUNCTION CONNECTOR)



- (a) Disconnect the connector (S14) from the steering sensor.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
S14-10 (CANH) - S14-9 (CANL)	Ignition SW OFF	1 M Ω or more

HINT:

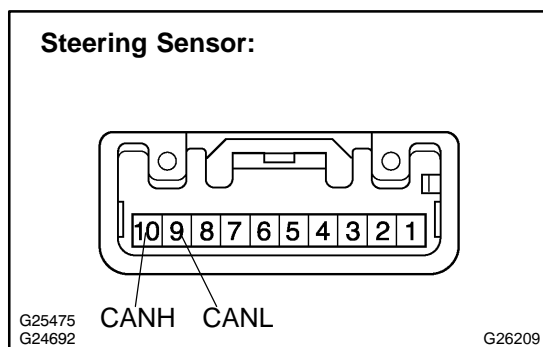
Check the wire harness connector connected to the junction connector while disconnecting it.

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REPAIR OR REPLACE STEERING SENSOR SUB BUS LINE OR CONNECTOR (CAN-H, CAN-L)

OK

5 INSPECT STEERING SENSOR(CANH - CANL)



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

Standard:

Tester connection	Condition	Specified value
10 (CANH) - 9 (CANL)	Ignition SW OFF	108 to 132 Ω

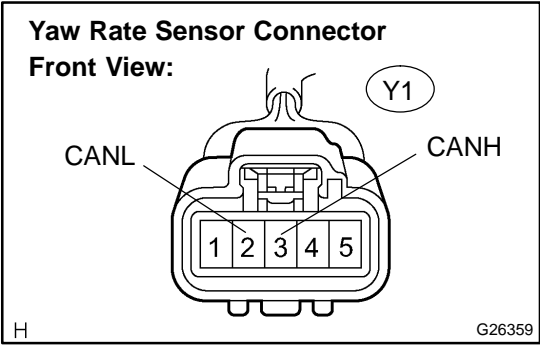
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REPLACE STEERING SENSOR (SEE PAGE 32-48)

OK

6

CHECK CAN BUS LINES FOR SHORT(YAW RATE SENSOR SUB BUS LINE)



- (a) Disconnect the connector (Y1) from the yaw rate sensor.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
Y1-3 (CANH) - Y1-2 (CANL)	Ignition SW OFF	1 MΩ or more

HINT:

Check the wire harness connector connected to the junction connector while disconnecting it.

NG

REPAIR OR REPLACE YAW RATE SENSOR SUB BUS LINE OR CONNECTOR (CAN-H, CAN-L)

OK

REPLACE YAW RATE SENSOR (SEE PAGE 32-46)