

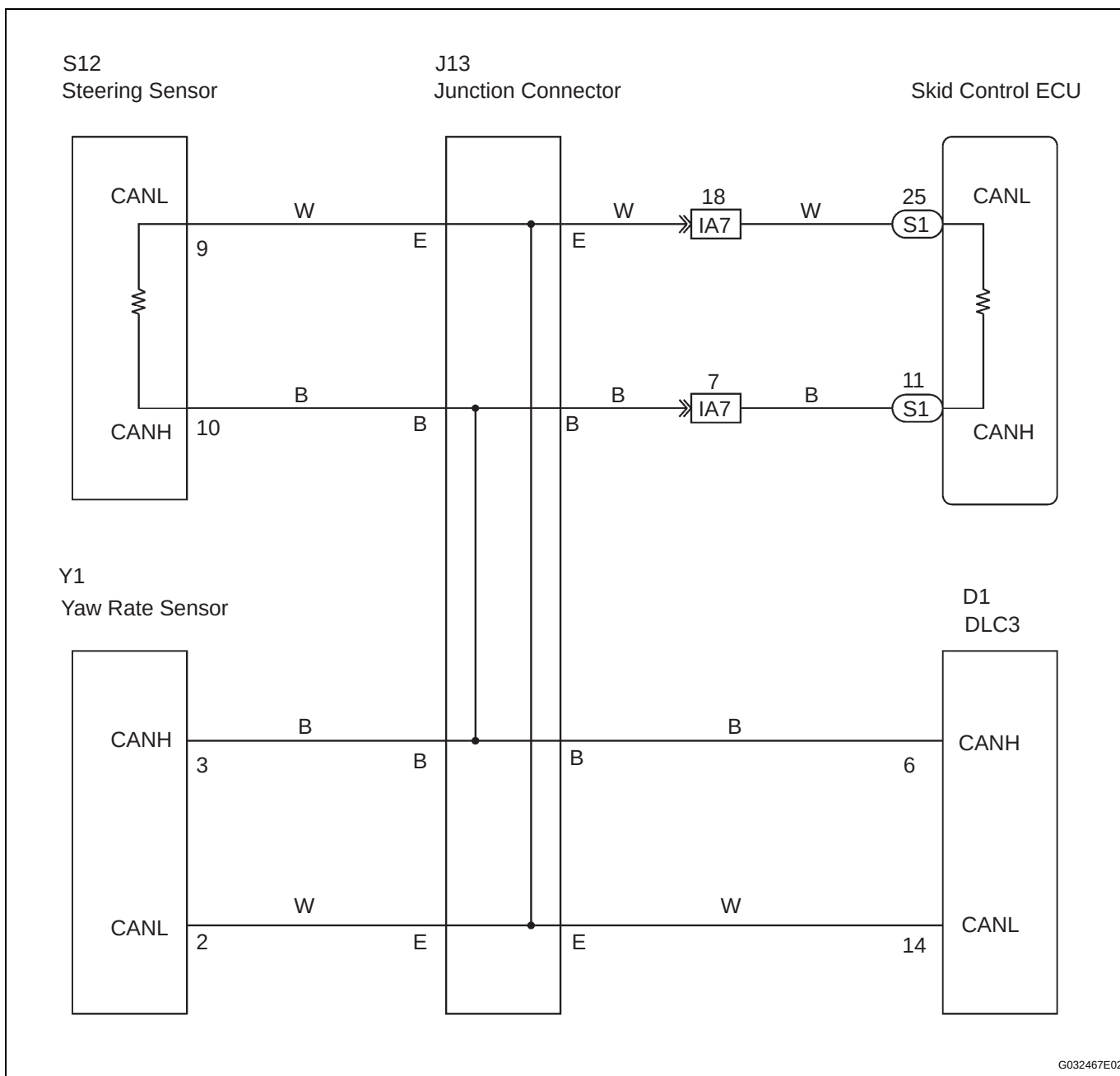
Check CAN Bus Lines for Short Circuit

DESCRIPTION

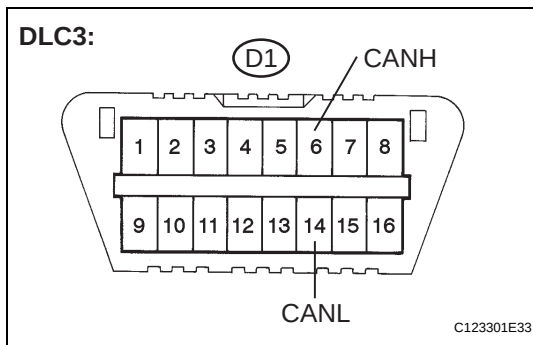
The CAN bus lines are considered to be shorted when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is below 54 Ω .

Symptom	Trouble Area
Resistance between terminals 6 (CANH) and 14 (CANL) of DLC3 is below 54 Ω .	- Short in CAN bus lines - Skid control ECU - Steering sensor - Yaw rate sensor

WIRING DIAGRAM



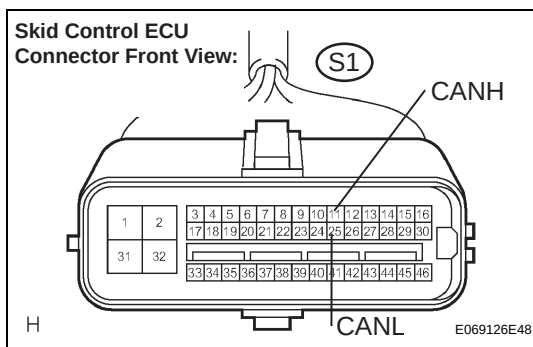
INSPECTION PROCEDURE

1 CHECK SHORT IN CAN BUS WIRES (DLC3 SUB BUS LINE)

- (a) Disconnect the wire harness connector (J13) from the junction connector.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified value
D1-6 (CANH) - D1-14 (CANL)	IG switch OFF	1 MΩ or higher

NG**REPAIR OR REPLACE DLC3 SUB BUS LINE OR CONNECTOR (CAN-H, CAN-L)****OK****2 CHECK SHORT IN CAN BUS WIRES (SKID CONTROL ECU - JUNCTION CONNECTOR)**

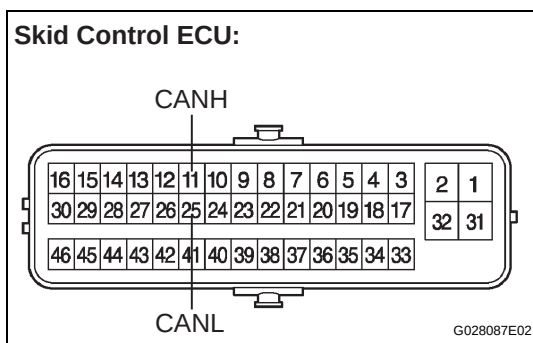
- (a) Disconnect the connector (S1) from the skid control ECU.
 (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified value
S1-11 (CANH) - S1-25 (CANL)	IG switch OFF	1 MΩ or higher

HINT:

Ensure that the wire harness connector is not connected to the junction connector.

NG**REPAIR OR REPLACE CAN BUS MAIN WIRE OR CONNECTOR (SKID CONTROL ECU - JUNCTION CONNECTOR)****OK****3 CHECK SKID CONTROL ECU (CANH - CANL)**

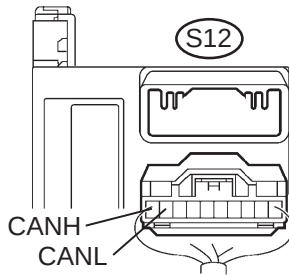
- (a) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified value
11 (CANH) - 25 (CANL)	IG switch OFF	108 to 132 Ω

NG**REPLACE SKID CONTROL ECU**

OK

4 CHECK SHORT IN CAN BUS WIRES (STEERING SENSOR - JUNCTION CONNECTOR)**Steering Sensor Wire Harness View:**

- Disconnect the connector (S12) from the steering sensor.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified value
S12-10 (CANH) - S12-9 (CANL)	IG switch OFF	1 MΩ or higher

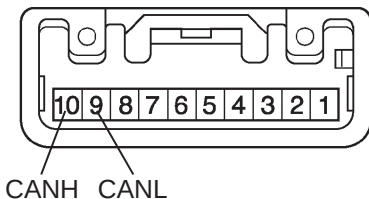
HINT:

Ensure that the wire harness connector is not connected to the junction connector.

NG

REPAIR OR REPLACE CAN BUS MAIN WIRE OR CONNECTOR (STEERING SENSOR - JUNCTION CONNECTOR)

OK

5 CHECK STEERING SENSOR (CANH - CANL)**Steering Sensor:**

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

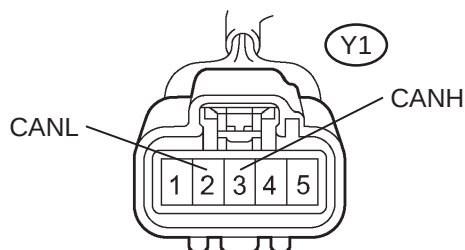
Standard resistance

Tester Connection	Condition	Specified value
10 (CANH) - 9 (CANL)	IG switch OFF	108 to 132 Ω

NG

REPLACE STEERING SENSOR

OK

6 CHECK SHORT IN CAN BUS WIRES (YAW RATE SENSOR SUB BUS LINE)**Yaw Rate Sensor Connector Front View:**

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

Standard resistance

Tester Connection	Condition	Specified value
Y1-3 (CANH) - Y1-2 (CANL)	IG switch OFF	1 MΩ or higher

HINT:

Ensure that the wire harness connector is not connected to the junction connector.

NG

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

OK

REPLACE YAW RATE SENSOR