

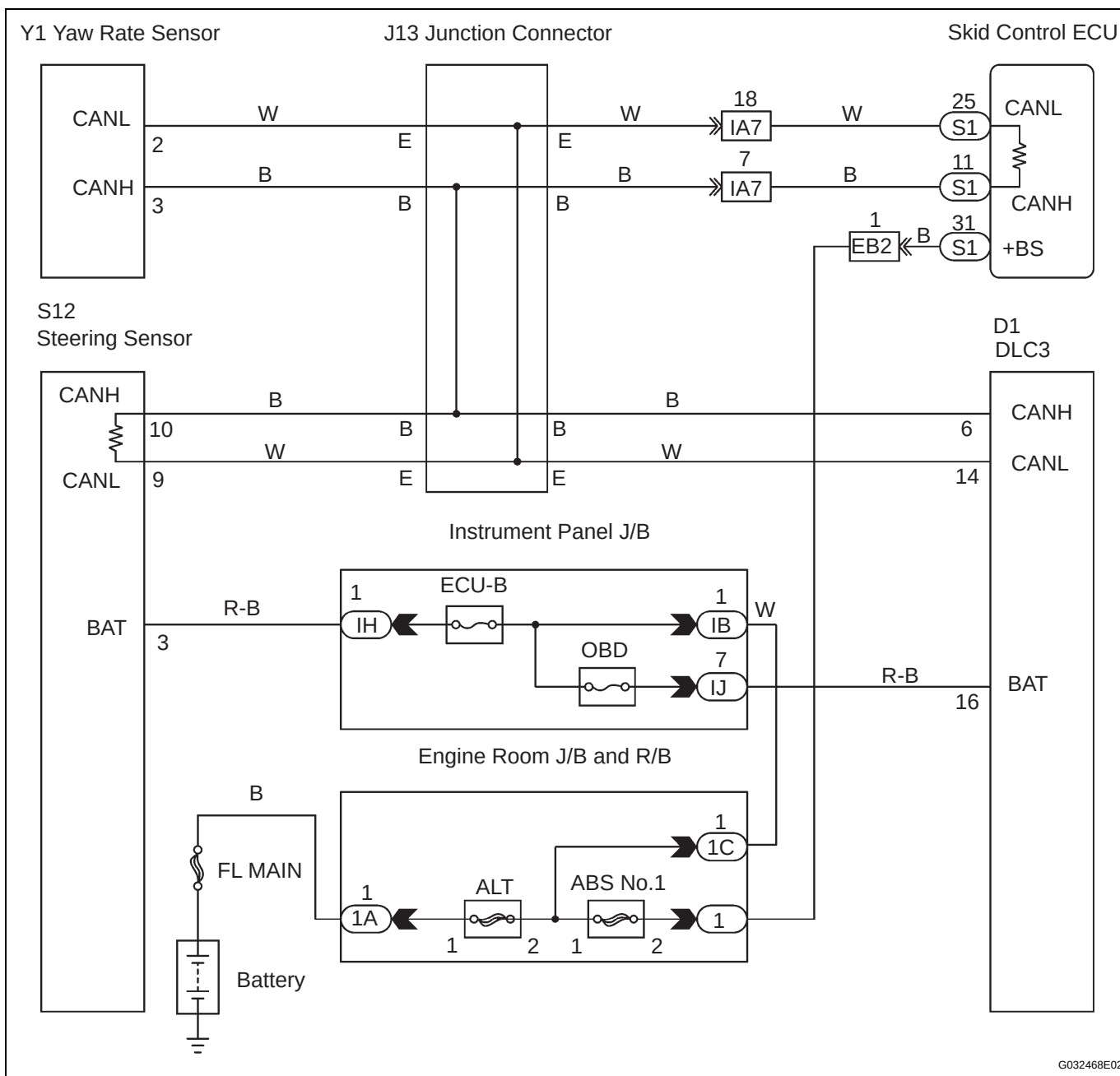
Check CAN Bus Line for Short to +B

DESCRIPTION

A short to +B is suspected in the CAN bus line when there is continuity between terminals 16 (BAT) and 6 (CANH) or terminals 16 (BAT) and 14 (CANL) of the DLC3.

Symptom	Trouble Area
There is continuity between terminals 16 (BAT) and 6 (CANH) or 16 (BAT) and 14 (CANL) of DLC3.	- Short to +B in CAN bus line - Skid control ECU - Steering sensor - Yaw rate sensor

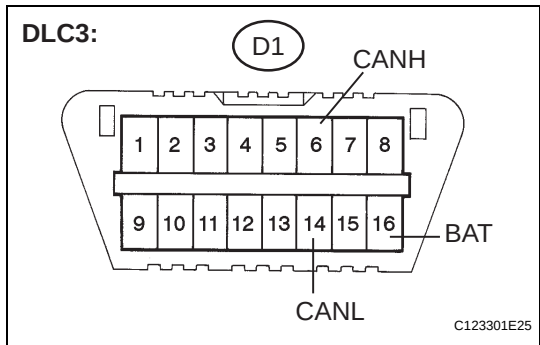
WIRING DIAGRAM



G032468E02

INSPECTION PROCEDURE

1CHECK CAN BUS LINE FOR SHORT TO +B (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) - D1-16 (BAT)	IG Switch OFF	1 MΩ or higher
D1-14 (CANL) - D1-16 (BAT)	IG Switch OFF	1 MΩ or higher

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

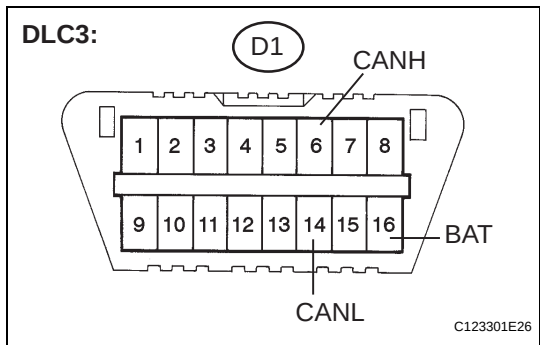
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2CONNECT CONNECTOR

- (a) Reconnect the wire harness connector (J13) to the junction connector.

NEXT

3CHECK CAN BUS LINE FOR SHORT TO +B (SKID CONTROL ECU)



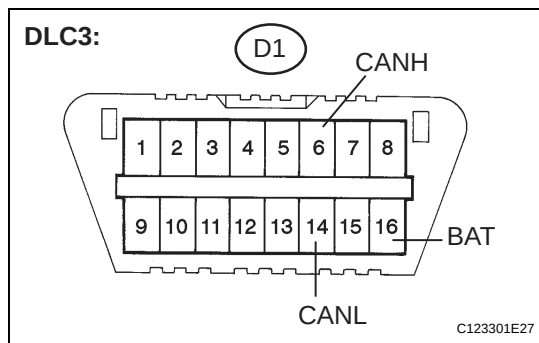
- (a) Disconnect the connector (S1) from the skid control ECU.
- (b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified value
D1-6 (CANH) - D1-16 (BAT)	IG Switch OFF	6 kΩ or higher
D1-14 (CANL) - D1-16 (BAT)	IG Switch OFF	6 kΩ or higher

OKREPLACE SKID CONTROL ECU

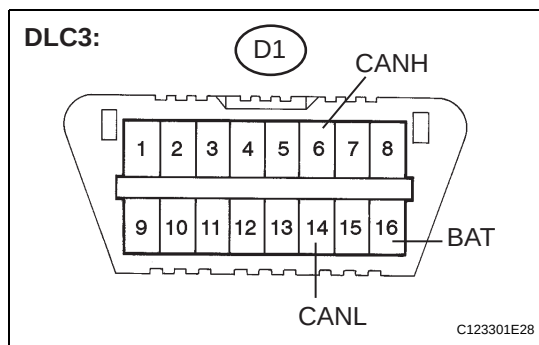
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4 CHECK CAN BUS LINE FOR SHORT TO +B (STEERING SENSOR)

- Reconnect the connector (S1) to the skid control ECU.
- 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
D1-6 (CANH) - D1-16 (BAT)	IG Switch OFF	6 k Ω or higher
D1-14 (CANL) - D1-16 (BAT)	IG Switch OFF	6 k Ω or higher

OK**REPLACE STEERING SENSOR****NG****5 CHECK CAN BUS LINE FOR SHORT TO +B (YAW RATE SENSOR)**

- Reconnect the connector (S12) to the steering sensor.
- Disconnect the connector (Y1) from the yaw rate sensor.
- Measure the resistance according to the value(s) in the table below.

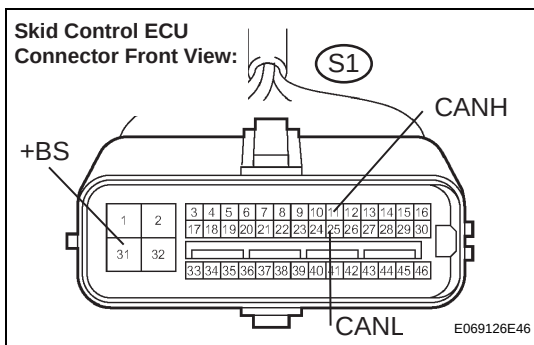
Standard resistance

Tester Connection	Condition	Specified value
D1-6 (CANH) - D1-16 (BAT)	IG Switch OFF	6 k Ω or higher
D1-14 (CANL) - D1-16 (BAT)	IG Switch OFF	6 k Ω or higher

OK**REPLACE YAW RATE SENSOR****NG****6 CHECK CAN BUS LINE FOR SHORT TO +B (SKID CONTROL ECU - JUNCTION CONNECTOR)**

- Reconnect the connector (Y1) to the yaw rate sensor.
- Disconnect the wire harness connector (J13) from the junction connector.
- Disconnect the connector (S1) from the skid control ECU.

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

Standard resistance

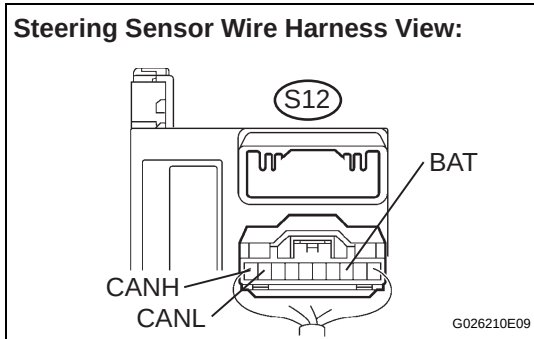
Tester Connection	Condition	Specified value
S1-11 (CANH) - S1-31 (+BS)	IG switch OFF	1 M Ω or higher
S1-25 (CANL) - S1-31 (+BS)	IG switch OFF	1 M Ω or higher

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REPAIR OR REPLACE CAN BUS MAIN WIRE OR CONNECTOR (SKID CONTROL ECU - JUNCTION CONNECTOR)

OK

7 CHECK CAN BUS LINE FOR SHORT TO +B (STEERING SENSOR - JUNCTION CONNECTOR)



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

Standard resistance

Tester Connection	Condition	Specified value
S12-10 (CANH) - S12-3 (BAT)	IG switch OFF	1 M Ω or higher
S12-9 (CANL) - S12-3 (BAT)	IG switch OFF	1 M Ω or higher

HINT:

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

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

OK

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