

CHECK CAN BUS LINE (CAN-H) FOR SHORT TO GND

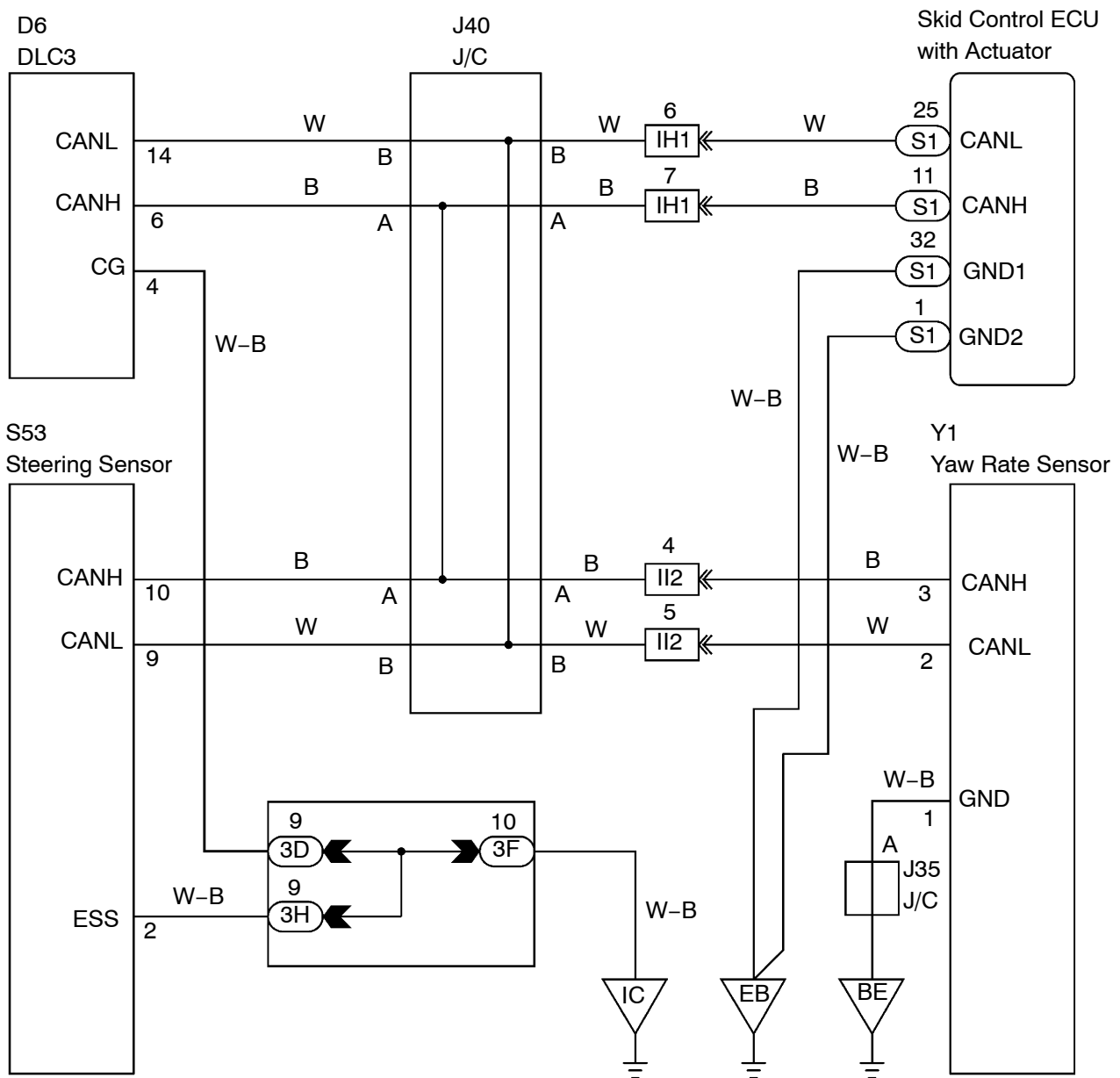
CIRCUIT DESCRIPTION

A short to GND is suspected in the CAN bus line when there is continuity between terminals 4 (CG) and 6 (CANH) of the DLC3.

Symptom	Trouble Area
There is continuity between terminals 4 (CG) and 6 (CANH) of DLC3.	<ul style="list-style-type: none">• Short to GND in CAN bus line (CANH)• Skid control ECU• Steering sensor• Yaw rate sensor

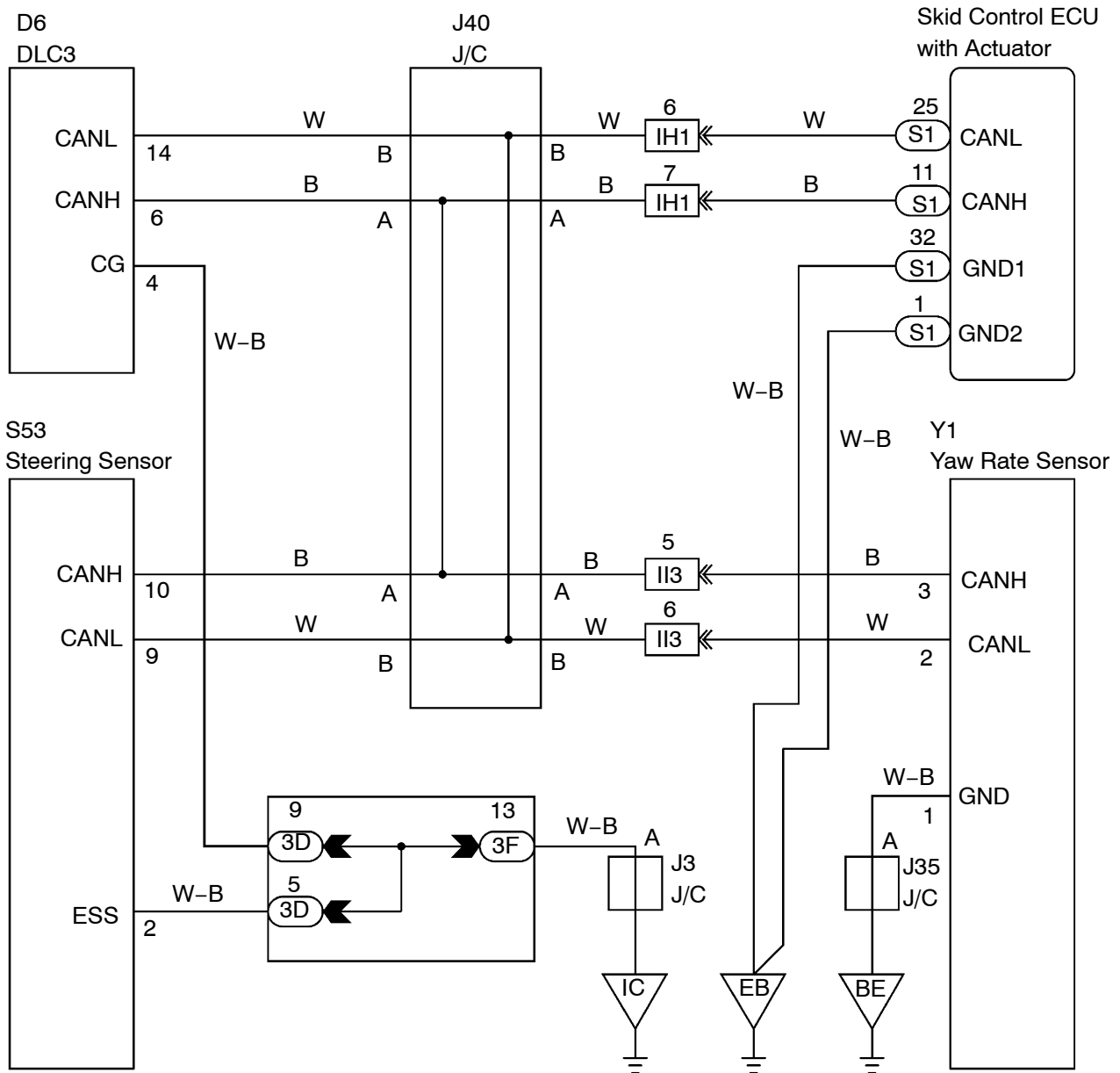
WIRING DIAGRAM

LHD:



C

G31664

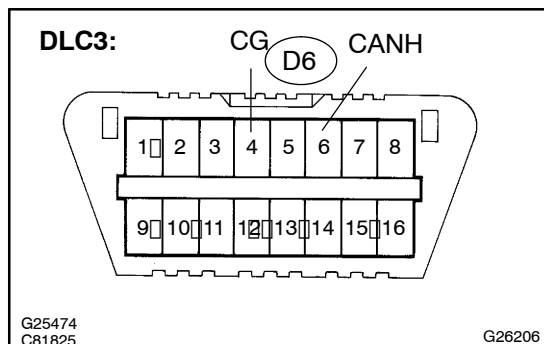
RHD:

C

G31671

INSPECTION PROCEDURE

1 CHECK CAN BUS LINE FOR SHORT TO GND (DLC3 SUB BUS LINE, CAN-H)



(a) Disconnect the wire harness connector (J40) from the junction connector.

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

Standard:

Tester connection	Condition	Specified value
D6-4 (CG) – D6-6 (CANH)	IG switch OFF	1 MΩ or higher

NG

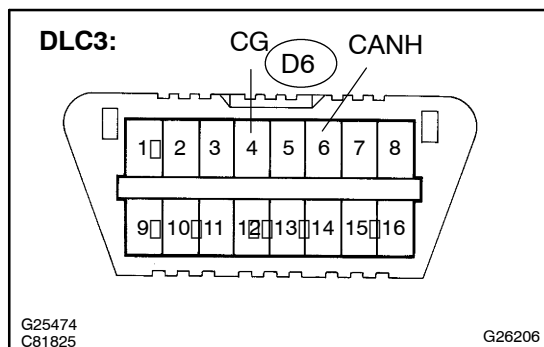
REPAIR OR REPLACE DLC3 SUB BUS LINE OR CONNECTOR (CAN-H)

OK

2 CONNECTION OF CONNECTORS

(a) Reconnect the wire harness connector (J40) to the junction connector.

3 CHECK CAN BUS LINE FOR SHORT TO GND (SKID CONTROL ECU, CAN-H)



(a) Disconnect the connector (S1) from the skid control ECU.

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

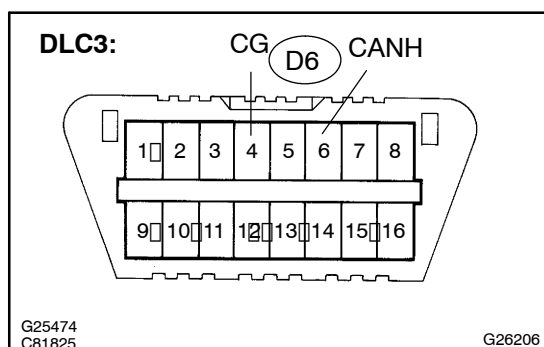
Standard:

Tester connection	Condition	Specified value
D6-4 (CG) – D6-6 (CANH)	IG switch OFF	3 kΩ or higher

OK

REPLACE SKID CONTROL ECU WITH ACTUATOR (SEE PAGE 32-20)

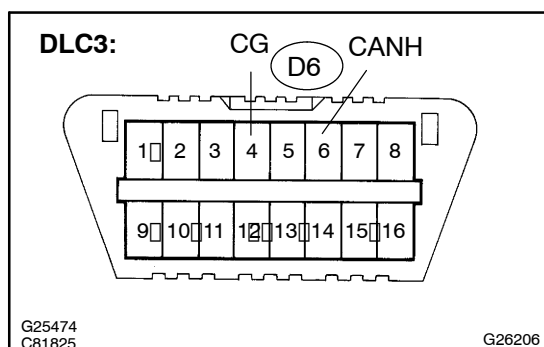
NG

4 CHECK CAN BUS LINE FOR SHORT TO GND (STEERING SENSOR, CAN-H)

- 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:

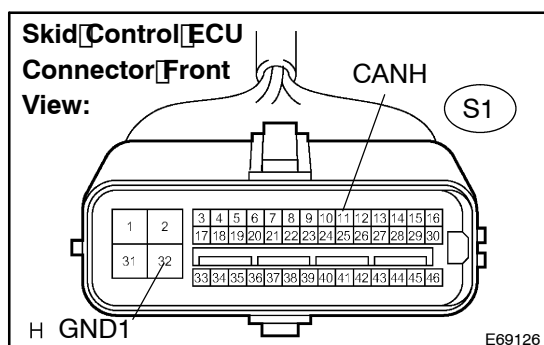
Tester connection	Condition	Specified value
D6-4 (CG) - D6-6 (CANH)	IG switch OFF	3 kΩ or higher

OK**REPLACE STEERING SENSOR**
(SEE PAGE 32-23)**NG****5 CHECK CAN BUS LINE FOR SHORT TO GND (YAW RATE SENSOR, CAN-H)**

- Reconnect the connector (S53) 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:

Tester connection	Condition	Specified value
D6-4 (CG) - D6-6 (CANH)	IG switch OFF	3 kΩ or higher

OK**REPLACE YAW RATE SENSOR**
(SEE PAGE 32-23)**NG****6 CHECK CAN BUS LINE FOR SHORT TO GND (SKID CONTROL ECU - JUNCTION CONNECTOR, CAN-H)**

- Reconnect the connector (Y1) to the yaw rate sensor.
- Disconnect the wire harness connector (J40) from the junction connector.
- Disconnect the connector (S1) from the skid control ECU.
- Measure the resistance according to the value(s) in the table below.

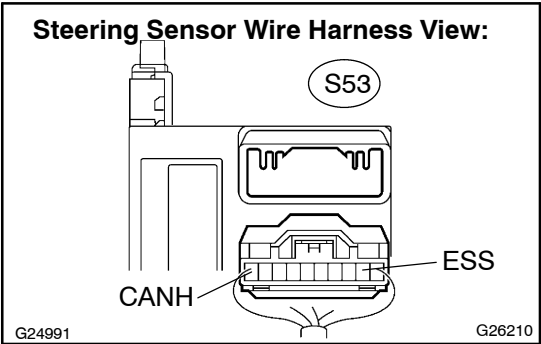
Standard:

Tester connection	Condition	Specified value
S1-11 (CANH) - S1-32 (GND1)	IG switch OFF	1 MΩ or higher

NG**REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (SKID CONTROL ECU - JUNCTION CONNECTOR, CAN-H)****OK**

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CHECK CAN BUS LINE FOR SHORT TO GND(STEERING SENSOR - JUNCTION CONNECTOR, CAN-H)



- (a) Disconnect the connector (S53) from the steering sensor.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
S53-2 (ESS) - S53-10 (CANH)	IG switch OFF	1 MΩ or higher

HINT:

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

NG

REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (STEERING SENSOR - JUNCTION CONNECTOR, CAN-H)

OK

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