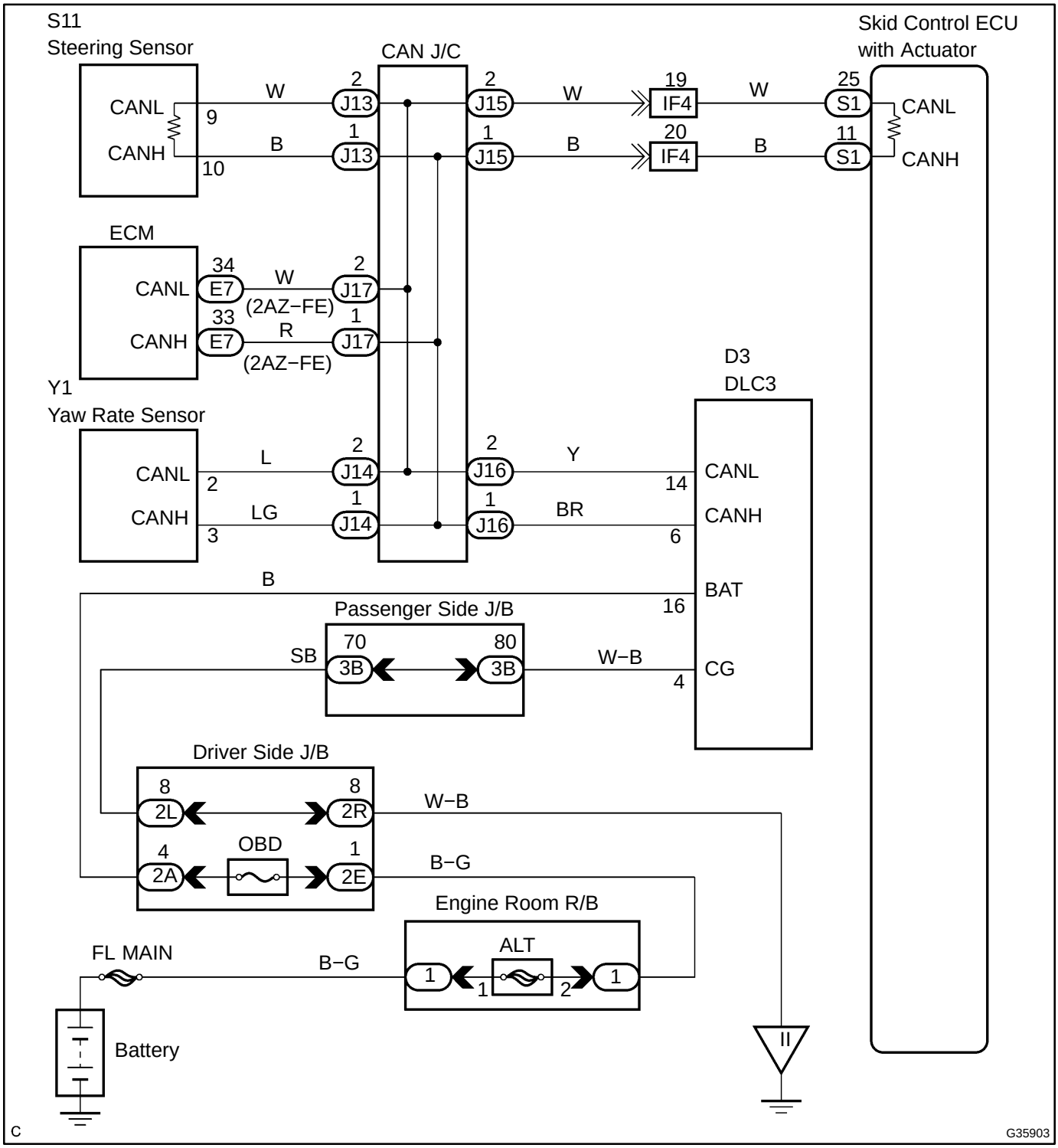
CHECK CAN BUS LINE

CIRCUIT DESCRIPTION

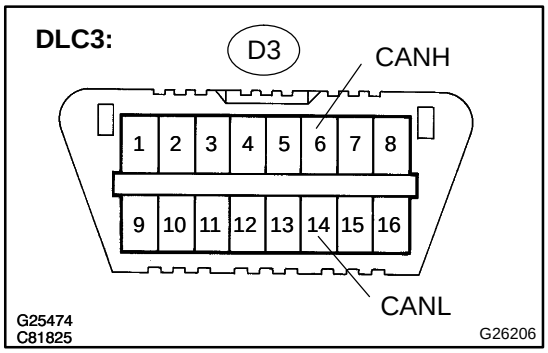
When any DTC for the CAN communication is output, first measure the resistance between the terminals of the DLC3 and the yaw rate sensor connector to specify the trouble area.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK CAN BUS LINE(MAIN BUS LINE FOR DISCONNECTION, BUS LINES FOR SHORT CIRCUIT)



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

Standard:

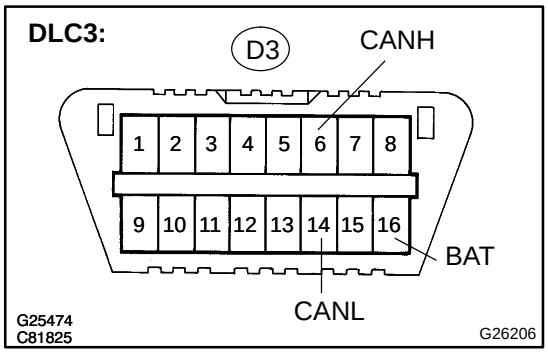
Tester connection	Condition	Specified value	Result
D3−6 (CANH) − D3−14 (CANL)	IG switch OFF	54 to 69 Ω	OK
D3−6 (CANH) − D3−14 (CANL)	IG switch OFF	69 Ω or higher	NG−A
D3−6 (CANH) − D3−14 (CANL)	IG switch OFF	Below 54 Ω	NG−B

NG−A → **CHECK CAN MAIN BUS LINE FOR DISCONNECTION (SEE PAGE 05−2185)**

NG−B → **CHECK CAN BUS LINES FOR SHORT CIRCUIT (SEE PAGE 05−2188)**

OK

2	CHECK CAN BUS LINE FOR SHORT TO +B



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

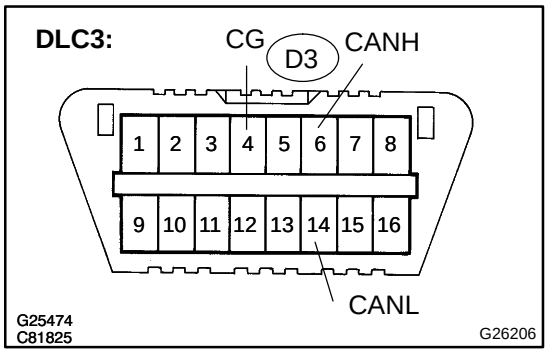
Standard:

Tester connection	Condition	Specified value
D3−6 (CANH) − D3−16 (BAT)	IG switch OFF	1 MΩ or higher
D3−14 (CANL) − D3−16 (BAT)	IG Switch OFF	1 MΩ or higher

NG → **CHECK CAN BUS LINE FOR SHORT TO +B (SEE PAGE 05−2194)**

OK

3 CHECK CAN BUS LINE FOR SHORT TO GND



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

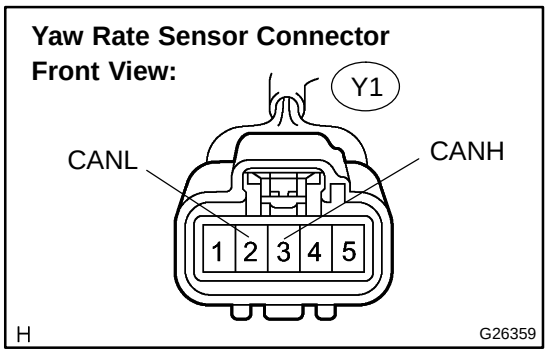
Standard:

Tester connection	Condition	Specified value
D3−4 (CG) − D3−6 (CANH)	IG switch OFF	3 kΩ or higher
D3−4 (CG) − D3−14 (CANL)	IG switch OFF	3 kΩ or higher

NG → **CHECK CAN BUS LINE FOR SHORT TO GND (SEE PAGE 05−2200)**

OK

4 CHECK CAN BUS LINE(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
Y1−2 (CANL) − Y1−3 (CANH)	IG switch OFF	54 to 69 Ω

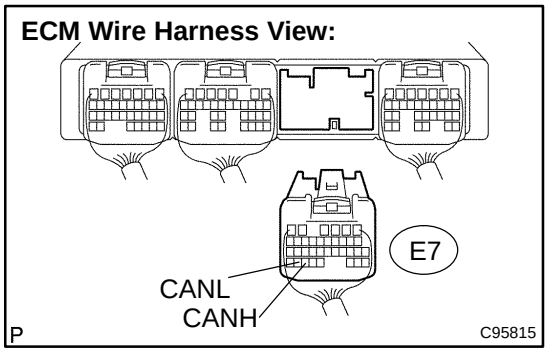
NG → **REPAIR OR REPLACE YAW RATE SENSOR SUB BUS LINE OR CONNECTOR (CAN−H, CAN−L)**

OK

5 CHECK CAN BUS LINE(ECM SUB BUS LINE)

NOTICE:

For vehicles without enhanced 2AZ−FE engine, go to OK.



(a) Disconnect the connector (E7) from the ECM.

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

Standard:

Tester connection	Condition	Specified value
E7−33 (CANH) − E7−34 (CANL)	IG switch OFF	54 to 69 Ω

NG → **REPAIR OR REPLACE ECM SUB BUS LINE OR CONNECTOR (CANH, CAN−L)**

OK

GO TO HOW TO PROCEEDO WITH TROUBLESHOOTING (SEE PAGE 05−2166)