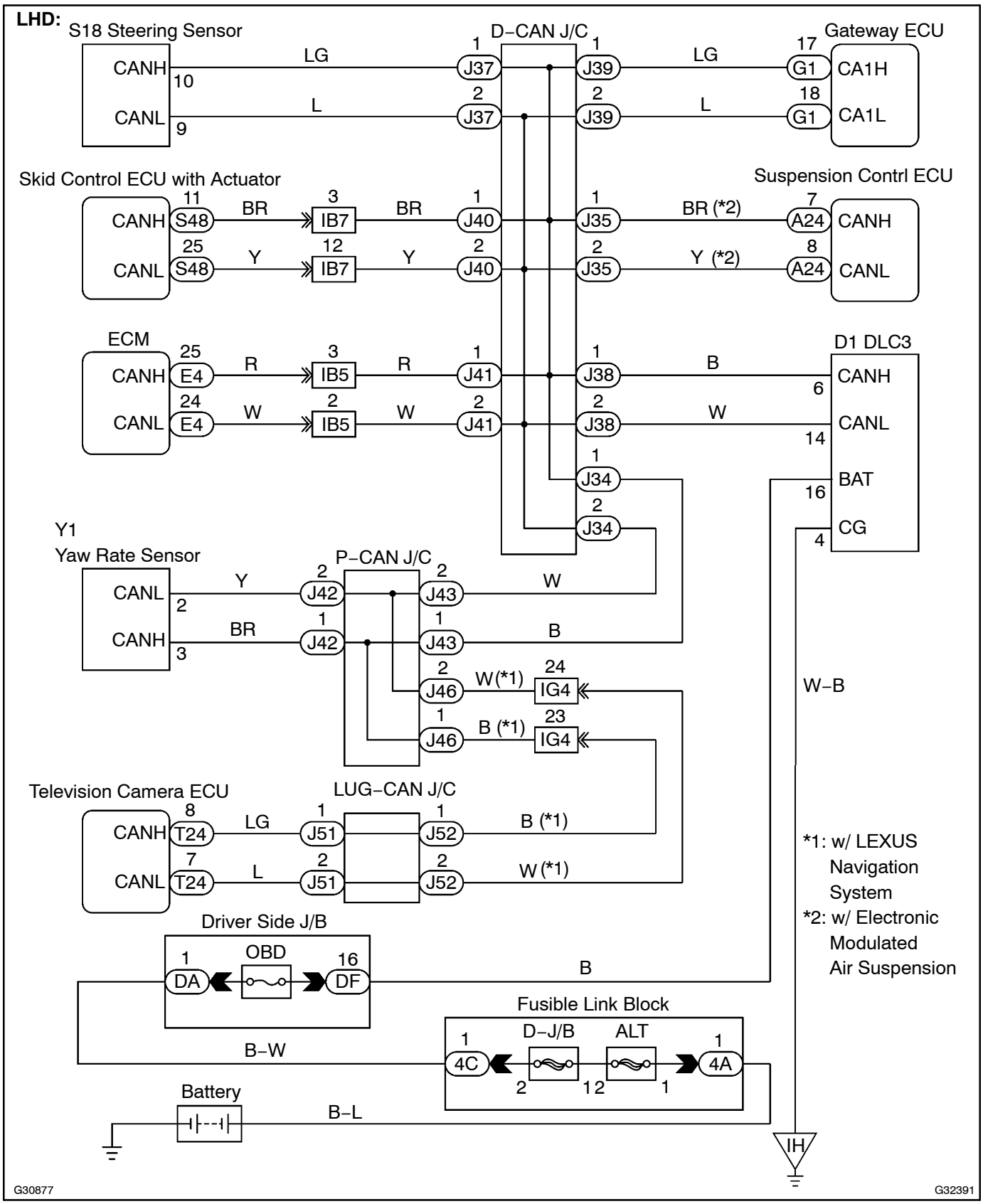
CHECK CAN BUS LINE (LHD)

CIRCUIT DESCRIPTION

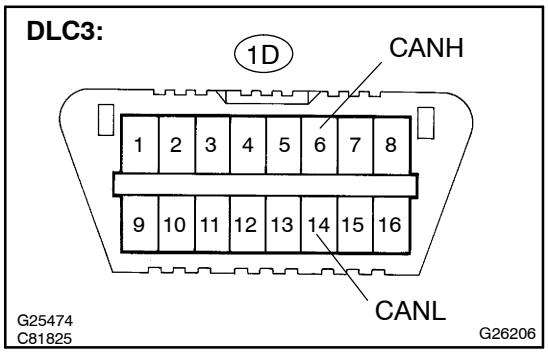
When any DTC for the CAN communication system is output, first measure the resistance between the terminals of the DLC3 to specify the trouble area, and check that there is no short in the CAN main bus line, between the CAN bus lines, to +B, or to GND.

WIRING DIAGRAM



INSPECTION PROCEDURE

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



(a) Turn the ignition switch to the LOCK position.

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

Standard:

Tester connection	Condition	Specified value	Result
D1–6 (CANH) – D1–14 (CANL)	Ignition Switch OFF	54 to 69 Ω	OK
D1–6 (CANH) – D1–14 (CANL)	Ignition Switch OFF	69 Ω or more (w/o LEX-US Navigation System)	NG–A
D1–6 (CANH) – D1–14 (CANL)	Ignition Switch OFF	69 Ω or more (w/ LEX-US Navigation System)	NG–B
D1–6 (CANH) – D1–14 (CANL)	Ignition Switch OFF	54 Ω or less (w/o LEX-US Navigation System)	NG–C
D1–6 (CANH) – D1–14 (CANL)	Ignition Switch OFF	54 Ω or less (w/ LEX-US Navigation System)	NG–D

NG–A → **CHECK CAN MAIN BUS LINE FOR DISCONNECTION (LHD, W/O LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3364)**

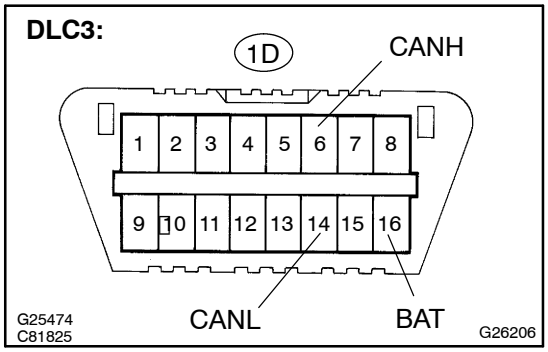
NG–B → **CHECK CAN MAIN BUS LINE FOR DISCONNECTION (LHD, W/ LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3410)**

NG–C → **CHECK CAN BUS LINES FOR SHORT CIRCUIT (LHD, W/O LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3367)**

NG–D → **CHECK CAN BUS LINES FOR SHORT CIRCUIT (LHD, W/ LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3414)**

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
D1–6 (CANH) – D1–16 (BAT)	Ignition Switch OFF	1 MΩ or more
D1–14 (CANL) – D1–16 (BAT)	Ignition Switch OFF	1 MΩ or more

HINT:

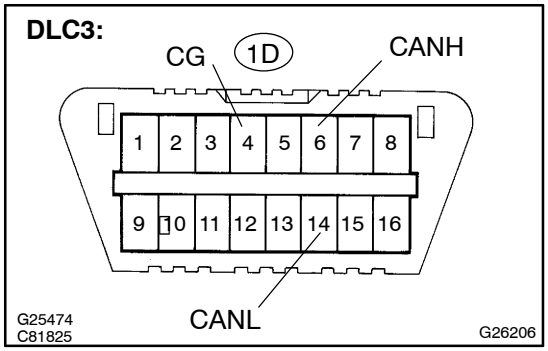
- NG–A: w/o LEXUS Navigation System.
- NG–B: w/ LEXUS Navigation System.

NG–A → **CHECK CAN BUS LINE FOR SHORT TO +B (LHD, W/O LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3382)**

NG–B → **CHECK CAN BUS LINE FOR SHORT TO +B (LHD, W/ LEXUS NAVIGATION SYSTEM) (SEE PAGE 05–3433)**

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
D1–4 (CG) – D1–6 (CANH)	Ignition Switch OFF	1 kΩ or more
D1–4 (CG) – D1–14 (CANL)	Ignition Switch OFF	1 kΩ or more

HINT:

- NG–A: w/o LEXUS Navigation System.
- NG–B: w/ LEXUS Navigation System.

NG–A → **CHECK CAN BUS LINE FOR SHORT TO GND**

NG–B → **CHECK CAN BUS LINE FOR SHORT TO GND**

OK

HOW TO PROCEED WITH TROUBLESHOOTING (SEE PAGE 05–3306)