

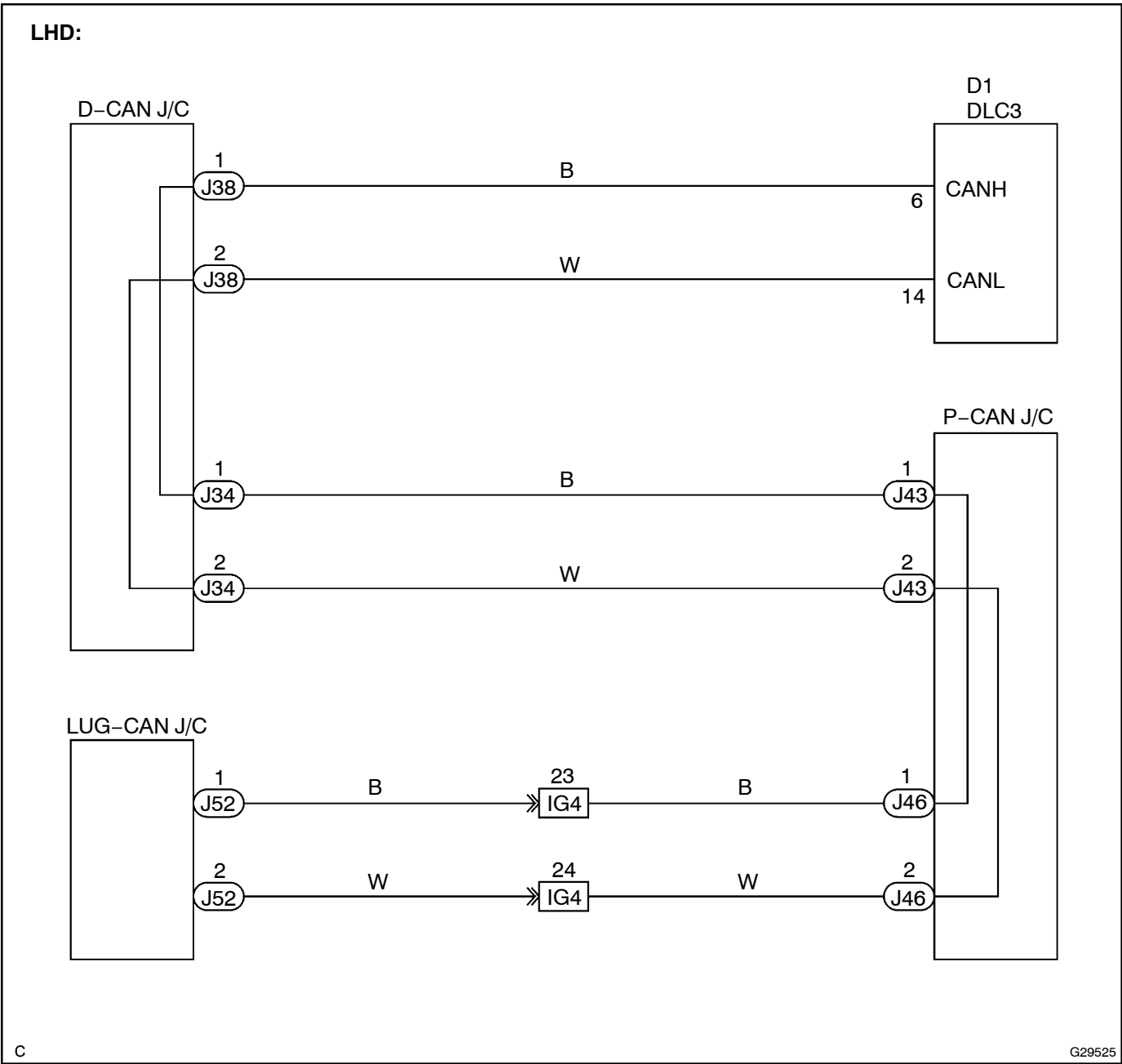
CHECK CAN MAIN BUS LINE FOR DISCONNECTION (LHD, w/ LEXUS Navigation System)

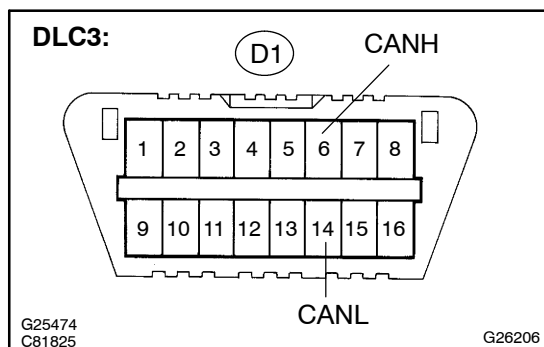
CIRCUIT DESCRIPTION

There may be an open circuit in the CAN main bus line and/or the DLC3 sub bus line when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is 69 Ω or more.

Symptom	Trouble Area
Resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is 69 Ω. or more.	<ul style="list-style-type: none"><li>• CAN main bus line or connector</li><li>• Junction connector (LUG-CAN J/C)</li><li>• Junction connector (P-CAN J/C)</li><li>• Junction connector (D-CAN J/C)</li><li>• DLC3 sub bus line or connector</li></ul>

WIRING DIAGRAM



**1 CHECK DLC3**

- (a) Turn the ignition switch to the LOCK position.
- (b) Measure the resistance according to the value(s) in the table below.

**Result:**

Tester connection	Condition	Specified value	Result
D1-6 (CANH) - D1-14 (CANL)	Ignition Switch OFF	108 to 132 $\Omega$	A
D1-6 (CANH) - D1-14 (CANL)	Ignition Switch OFF	132 $\Omega$ or more	B

**NOTICE:**

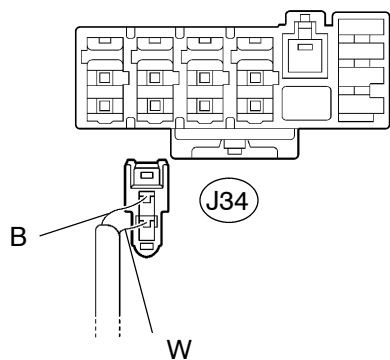
When the measured value is 132  $\Omega$  or more and a CAN communication system diagnostic trouble code is output, there may be a fault besides disconnection of the DLC3 sub bus line. For that reason, troubleshooting should be performed again from "HOW TO PROCEED WITH TROUBLESHOOTING" (see page 05-3306) after repairing the trouble area.

**B**

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

**A****2 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(D-CAN J/C)**

**D-CAN J/C A Side (w/ Earth Terminal)**  
**Wire Harness View:**



- (a) Disconnect the CAN main bus line connector (J34) from the D-CAN J/C A side (w/ earth terminal).

**NOTICE:**

- Before disconnecting the connector, make a note of where it is connected.
  - Reconnect the connector to its original position.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified value
J34-1 (CANH) - J34-2 (CANL)	Ignition Switch OFF	108 to 132 $\Omega$

**OK**

**REPLACE JUNCTION CONNECTOR (D-CAN J/C)**

**NG**

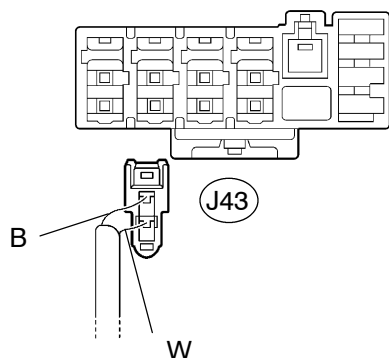
### 3 CONNECT CONNECTOR

- (a) Reconnect the CAN main bus line connector (J34) to the D-CAN J/C.



### 4 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(D-CAN J/C- P-CAN J/C)

#### P-CAN J/C A Side (w/ Earth Terminal) Wire Harness View:



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- (a) Disconnect the CAN main bus line connector (J43) from the P-CAN J/C A side (w/ earth terminal).

#### NOTICE:

- **Before disconnecting the connector, make a note of where it is connected.**
  - **Reconnect the connector to its original position.**
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified value
J43-1 (CANH) - J43-2 (CANL)	Ignition Switch OFF	108 to 132 Ω

NG

**REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (P-CAN J/C - D-CAN J/C)**

OK

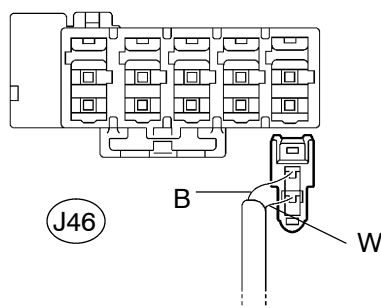
### 5 CONNECT CONNECTOR

- (a) Reconnect the CAN main bus line connector (J43) to the P-CAN J/C A side (w/ earth terminal).



### 6 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(P-CAN J/C)

#### P-CAN J/C B Side (w/o Earth Terminal) Wire Harness View:



H

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- (a) Disconnect the CAN main bus line connector (J46) from the P-CAN J/C B side (w/o earth terminal).

#### NOTICE:

- **Before disconnecting the connector, make a note of where it is connected.**
  - **Reconnect the connector to its original position.**
- (b) Measure the resistance according to the value(s) in the table below.

#### Standard:

Tester connection	Condition	Specified value
J46-1 (CANH) - J46-2 (CANL)	Ignition Switch OFF	108 to 132 Ω

OK

**REPLACE JUNCTION CONNECTOR (P-CAN J/C)**

NG

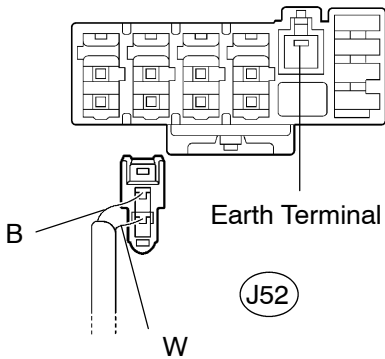
7 CONNECT CONNECTOR

- (a) Reconnect the CAN main bus line (J46) to the P-CAN J/C B side (w/o earth terminal).



8 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(LUG-CAN J/C)

LUG-CAN J/C (w/ Earth Terminal) :



- (a) Disconnect the CAN main bus line connector (J52) from the LUG-CAN J/C A side (w/ earth terminal).

NOTICE:

- Before disconnecting the connector, make a note of where it is connected.
  - Reconnect the connector to its original position.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified value
J52-1 (CANH) - J52-2 (CANL)	Ignition Switch OFF	108 to 132 $\Omega$

OK

REPLACE JUNCTION CONNECTOR (LUG-CAN J/C)

NG

REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (P-CAN J/C - LUG-CAN J/C)