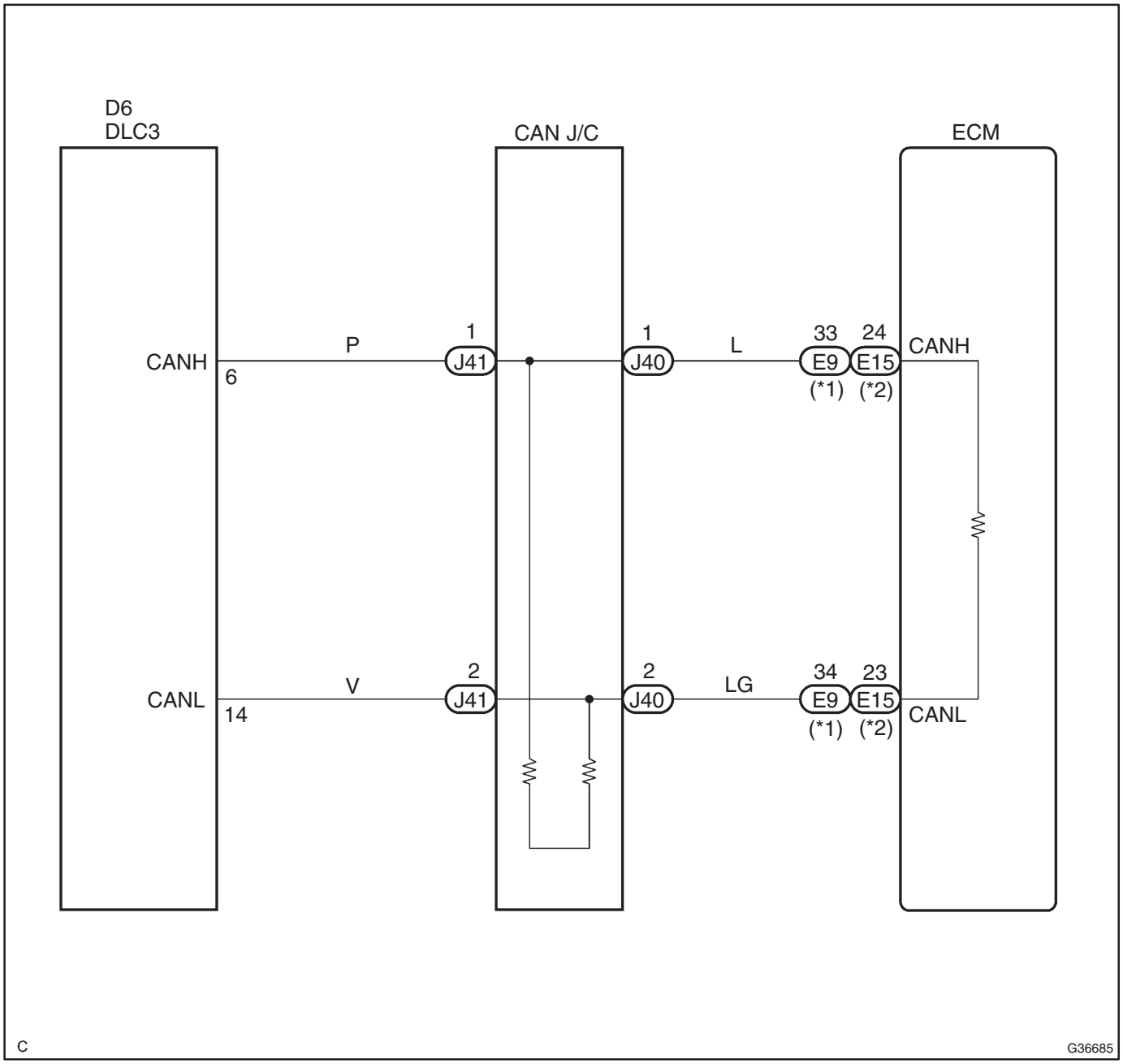
CHECK CAN MAIN BUS LINE FOR DISCONNECTION

CIRCUIT DESCRIPTION

The CAN main bus line and DLC3 sub bus line may have a disconnection when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is more than 69 Ω.

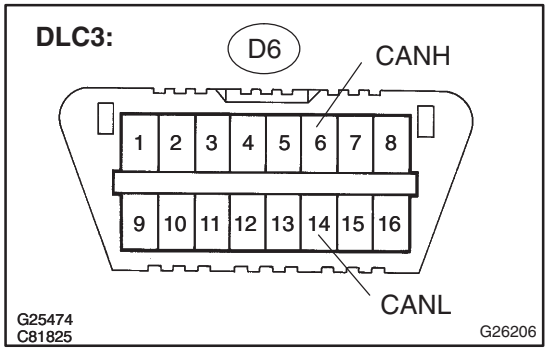
Symptom	Trouble Area
Resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is more than 69 Ω.	• CAN main bus line • ECM • CAN J/C

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK DLC3



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

Result:

Tester connection	Condition	Specified value	Result
D6–6 (CANH) – D6–14 (CANL)	• IG switch OFF • Stop light switch OFF	108 to 132 Ω	A
D6–6 (CANH) – D6–14 (CANL)	• IG switch OFF • Stop light switch OFF	132 Ω or higher	B

NOTICE:

When the measured value is 132 Ω or more and a CAN communication system diagnostic code is output, there may be a fault other than a disconnection in the DLC3 sub bus line. For that reason, troubleshooting should be performed again from "How to Proceed with Troubleshooting" after repairing the trouble area.

HINT:

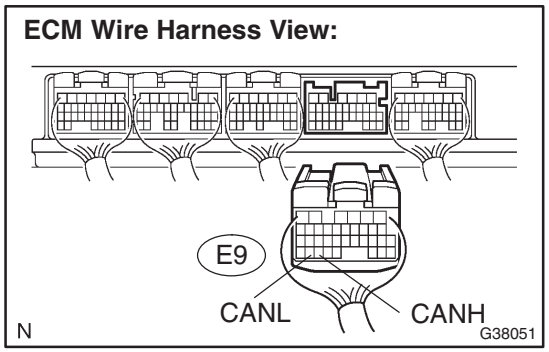
- 1GR–FE ..... Go to step A–1.
- 1KD–FTV ..... Go to step A–2.

A–2 → **Go to step 3**

B → **REPAIR OR REPLACE DLC3 SUB BUS LINE OR CONNECTOR (CAN–H, CAN–L)**

A–1

2	CHECK CAN MAIN BUS LINE FOR DISCONNECTION(ECM – CAN J/C)



(a) Disconnect the connector (E9) from the ECM.

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

Standard:

Tester connection	Condition	Specified value
E9–33 (CANH) – E9–34 (CANL)	• IG switch OFF • Stop light switch OFF	108 to 132 Ω

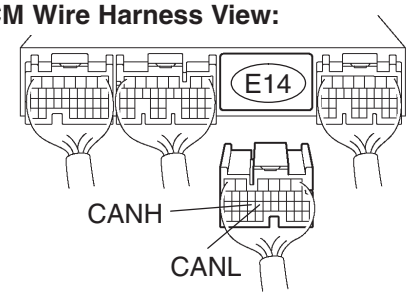
NG → **Go to step 4**

OK

REPLACE ECM (SEE PUB. No. RM1017E, PAGE 10–11)

3 CHECK CAN MAIN BUS LINE FOR DISCONNECTION(ECM – CAN J/C)

ECM Wire Harness View:



(a) Disconnect the connector (E14) from the steering angle sensor.

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

Standard:

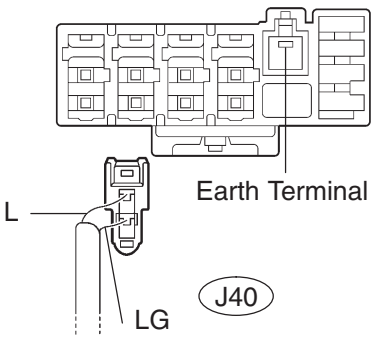
Tester connection	Condition	Specified value
E14–24 (CANH) – E14–23 (CANL)	• IG switch OFF • Stop light switch OFF	108 to 132 Ω

OK → **REPLACE ECM (SEE PUB. No. RM990E, PAGE 10–34)**

NG

4 INSPECT CAN J/C

CAN J/C "A" Side (w/ Earth Terminal) Wire Harness View:

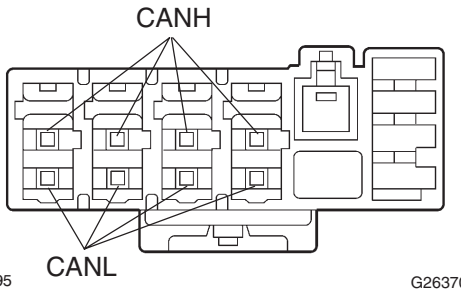


(a) Disconnect the CAN main bus line connector (J40) from the CAN J/C.

NOTICE:

- **Before disconnecting the connector, make a note of where it is connected.**
- **Reconnect the connector to its original position.**

CAN J/C "A" Side (w/ Earth Terminal):



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

Standard:

Between the terminals where the connector (J40) was connected	Condition	Specified value
CANH – CANL	• IG switch OFF • Stop light switch OFF	108 to 132 Ω

NG → **REPLACE CAN J/C**

OK

REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (CAN J/C – ECM)