

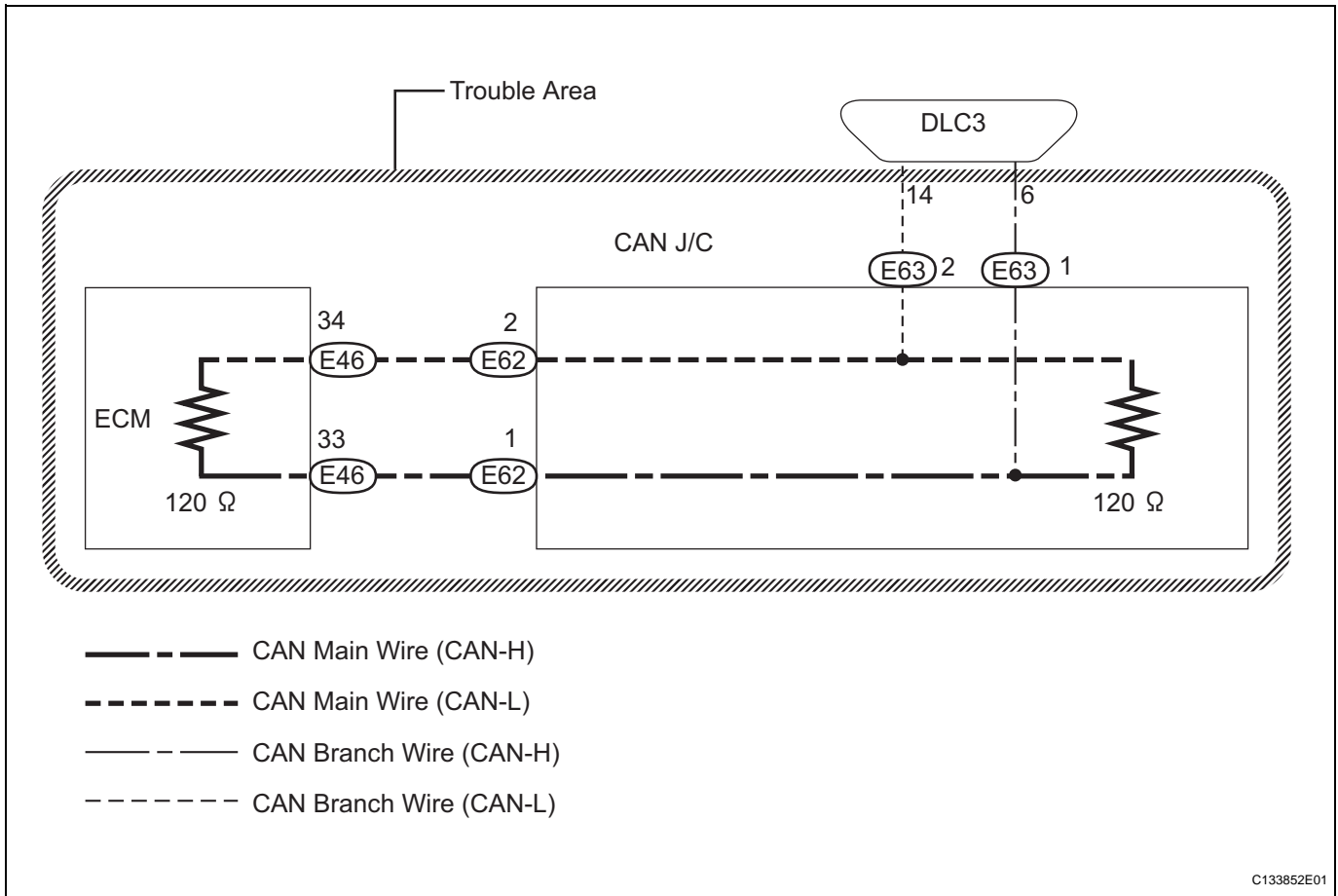
Open in CAN Main Wire

DESCRIPTION

There may be an open circuit in the CAN main wire and/or the DLC3 branch wire 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 DLC3 is 69 Ω or more.	<ul style="list-style-type: none"> CAN main wire or connector ECM CAN J/C

WIRING DIAGRAM



INSPECTION PROCEDURE

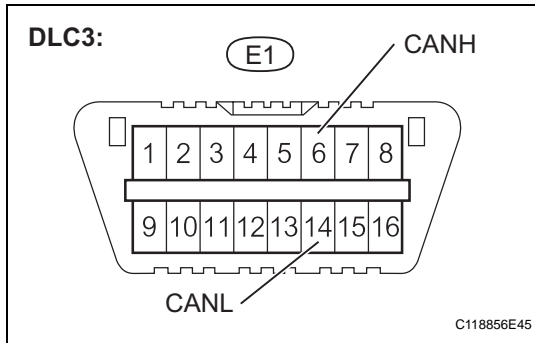
NOTICE:

- Turn the ignition switch off before measuring the resistances of the CAN main wire and the CAN branch wire.
- After the ignition switch is turned off, check that the key reminder warning system is not in operation.
- Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, any other switches or the doors. If doors need to be opened in order to check connectors, open the doors and leave them open.

HINT:

Operating the ignition switch, any switches or any doors triggers related ECU and sensor communication with the CAN, which causes resistance variation.

1 CHECK DLC3



- (a) Turn the ignition switch OFF.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition	Proceed to
E1-6 (CANH) - E1-14 (CANL)	Ignition switch OFF	108 to 132 Ω	A
E1-6 (CANH) - E1-14 (CANL)	Ignition switch OFF	132 Ω or higher	B

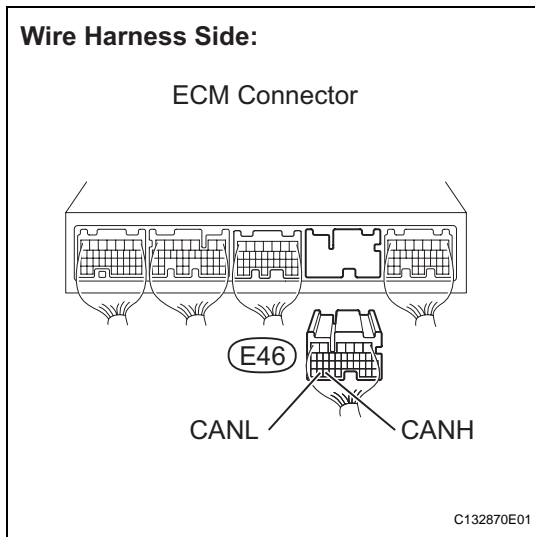
NOTICE:

When the measured value is 132 Ω or more and a CAN communication system diagnostic trouble code is output, there may be a fault besides disconnection of the DLC3 branch wire. For that reason, troubleshooting should be performed again from "HOW TO PROCEED WITH TROUBLESHOOTING" (See page CA-6) after repairing the trouble area.

B → REPAIR OR REPLACE CAN BRANCH WIRE CONNECTED TO DLC3 (CAN-H, CAN-L)

A

2 CHECK CAN MAIN WIRE FOR DISCONNECTION (ECM)



- (a) Disconnect the E46 ECM connector.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E46-33 (CANH) - E46-34 (CANL)	Ignition switch OFF	108 to 132 Ω

OK → REPLACE ECM

NG

3 CONNECT CONNECTOR

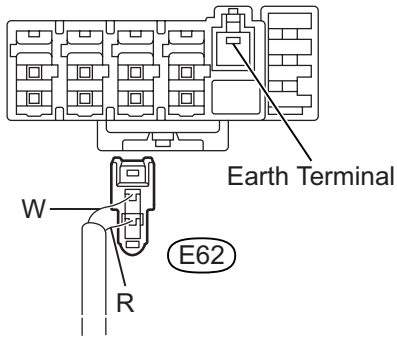
- (a) Reconnect the ECM connector.

NEXT

4 INSPECT CAN J/C

CAN J/C “A” Side (w/ Earth Terminal):

Wire Harness Side:

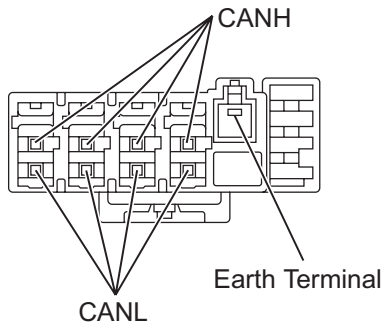


(a) Disconnect the E62 CAN main wire connector.

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.

Standard resistance

Tester Connection	Condition	Specified Condition
CANH - CANL	Ignition switch OFF	108 to 132 Ω

NG**REPLACE CAN J/C****OK****REPAIR OR REPLACE CAN MAIN WIRE OR CONNECTOR (ECM - CAN J/C (CAN-H, CAN-L))**