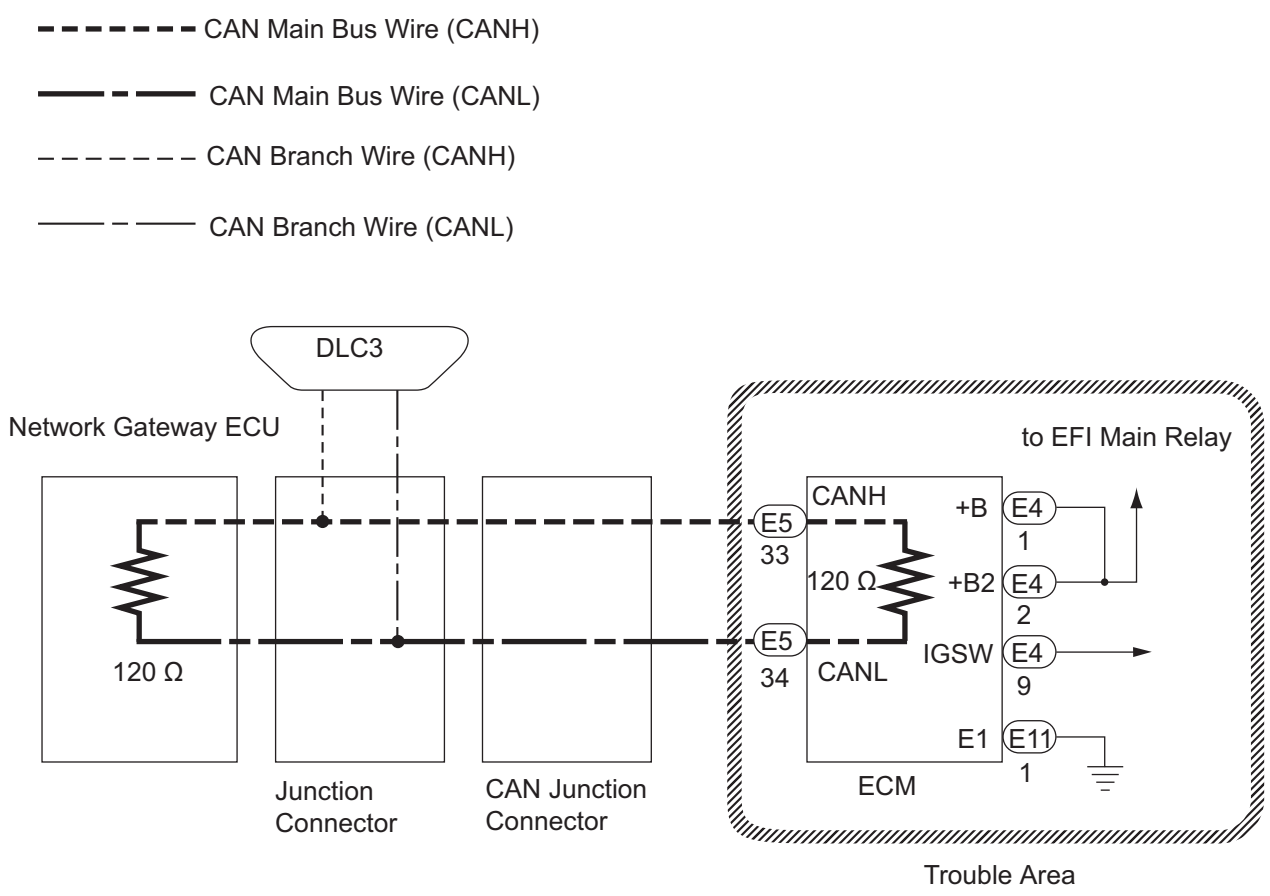
ECM Communication Stop Mode

DESCRIPTION

Detection Item	Symptom	Trouble Area
ECM Communication Stop Mode	• "Engine" is not displayed on the "Communication Bus Check" screen of the intelligent tester • Applies to "ECM Communication Stop Mode" in the "DTC COMBINATION TABLE"	• Power source circuit of ECM • CAN main wire or connector • ECM

CA

WIRING DIAGRAM



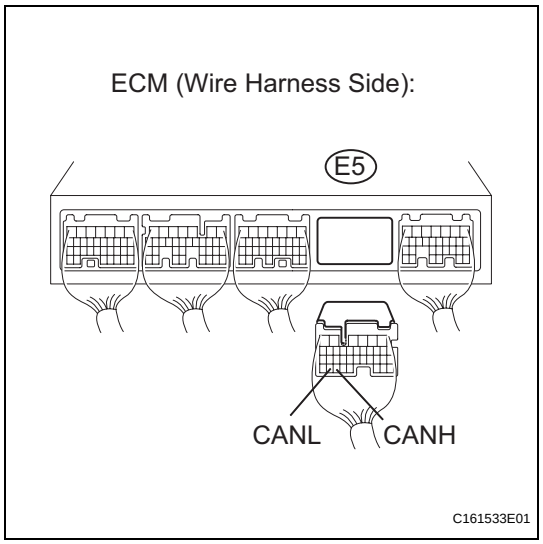
INSPECTION PROCEDURE

NOTICE:

- **Turn the ignition switch off before measuring the resistances of CAN bus main wires and CAN bus branch wires.**
- **After the ignition switch is turned off, check that the key reminder warning system and light reminder warning system are 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 any 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. This communication will cause the resistance value to change.

1 CHECK OPEN IN CAN BUS WIRE (ECU MAIN BUS WIRE)



(a) Disconnect ECM connector (E5).
(b) Measure the resistance according to the value(s) in the table below.

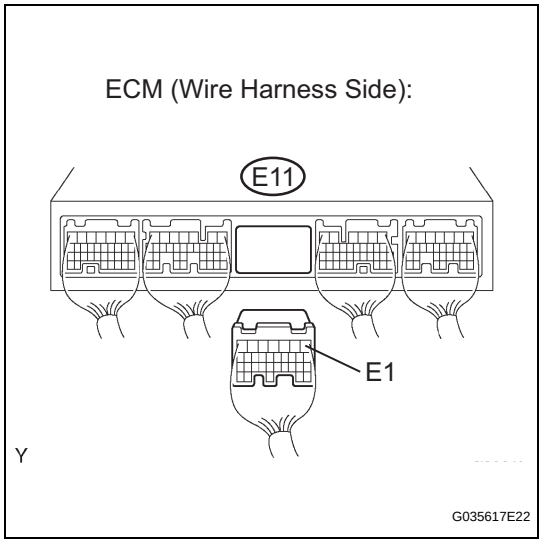
Standard resistance

Tester Connection	Condition	Specified Condition
E5-33 (CANH) - E5-34 (CANL)	Ignition Switch off	108 to 132 Ω

NG → **REPAIR OR REPLACE CAN MAIN WIRE OR CONNECTOR**

OK

2 CHECK WIRE HARNESS (E1, BATT, +BM, IGSW)

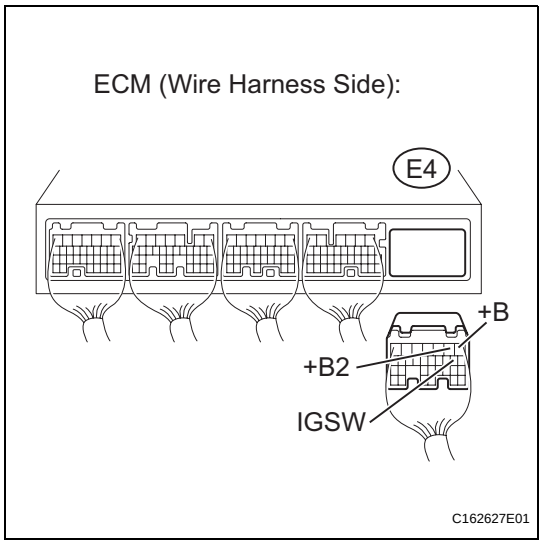


(a) Disconnect the ECM connector (E11).
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
E1 (E11-1) - Body ground	Always	Below 1 Ω

(c) Disconnect the ECM connector (E4).



(d) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
+B (E4-1) - Body ground	Ignition Switch off	9 to 14 V
+B2 (E4-2) - Body ground	Ignition Switch off	9 to 14 V
IGSW (E4-9) - Body ground	Ignition Switch on	9 to 14 V

NG → **CHECK ECM POWER SOURCE CIRCUIT (See page ES-437)**

OK

REPLACE ECM (See page ES-498)