

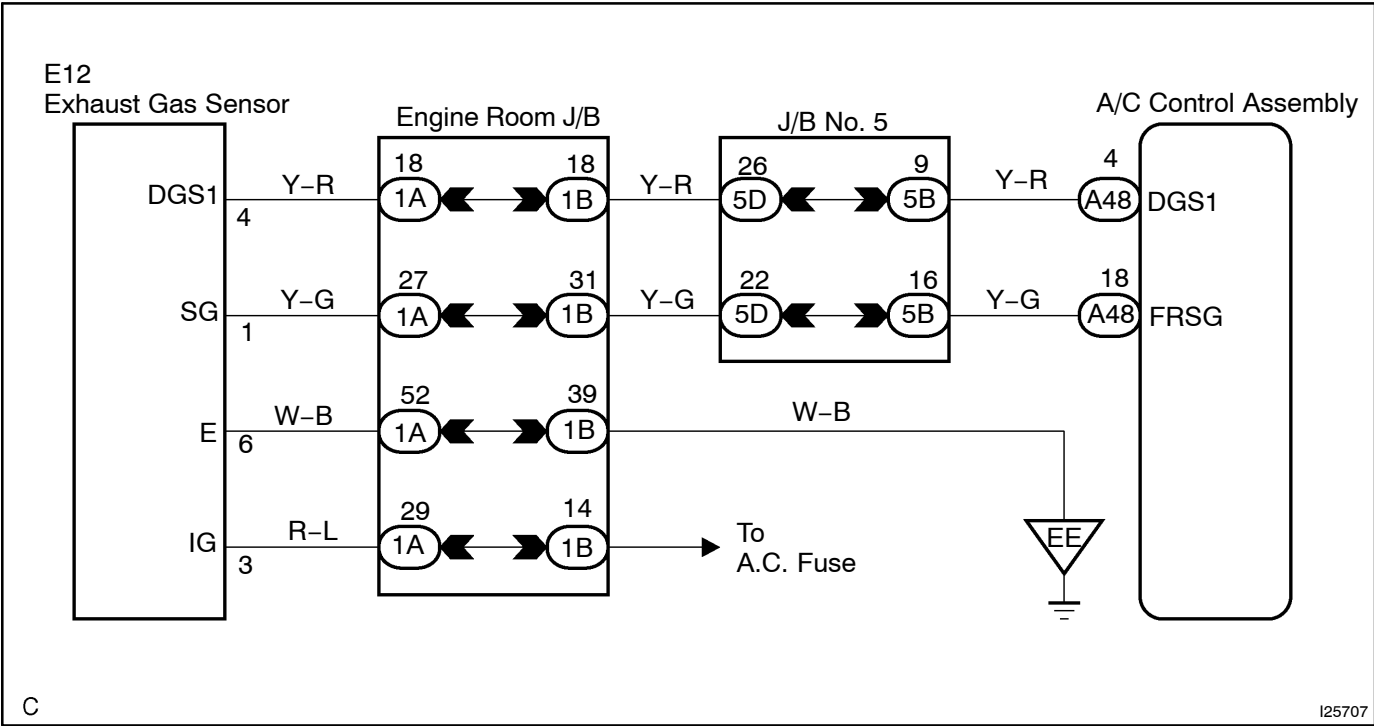
DTC	61	Exhaust Gas Sensor Circuit (NOx)
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CIRCUIT DESCRIPTION

This sensor detects the exhaust gas (NOx) outside the vehicle and sends signal to the A/C amplifier.

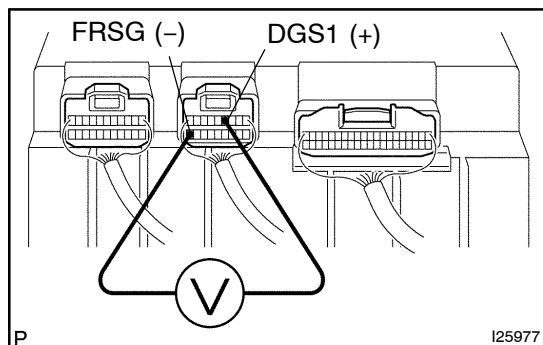
DTC No.	Detection Item	Trouble Area
B1461/61	Short in exhaust gas sensor circuit	- Exhaust gas sensor. - Harness or connector between exhaust gas sensor and A/C amplifier. - A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminals DGS1 and FRSG of A/C amplifier.



PREPARATION:

Remove A/C amplifier with connectors still connected.

CHECK:

- Turn ignition switch to ON.
- After continuing to turn ignition switch ON for more than 120 seconds, check voltage between terminals DGS1 and FRSG of A/C amplifier connector at the temperature.

OK:

Voltage:

1.0 – 4.5 V at 10 – 35°C (50 – 95°F)

HINT:

When the sensor is exposed to the exhaust gas, the voltage goes down.

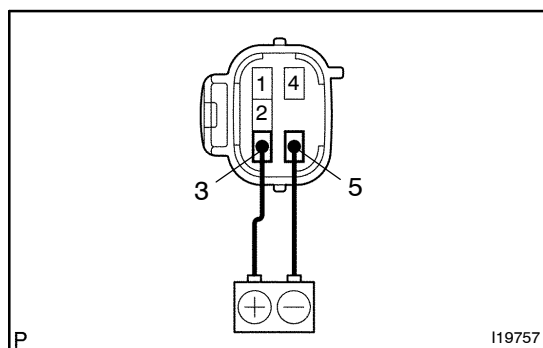
NG

Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1529](#)). However, if DTC 61 is displayed, check and replace A/C amplifier.

2 Check exhaust gas sensor resistance.



PREPARATION:

Remove the exhaust gas sensor (See page [AC-91](#)).

CHECK:

- Connect positive (+) lead from the battery to the terminal 3 and negative (-) lead to terminal 5.
- After keeping to apply battery positive voltage between terminals 3 and 5 for more than 120 seconds, measure resistance between terminals 1 and 4.

OK:

Resistance:

1 – 100 kΩ V at 10 – 35°C (50 – 95°F)

HINT:

When the sensor is exposed to the exhaust gas, the resistance goes up.

NG

Replace exhaust gas sensor.

OK

3	Check harness and connector between exhaust gas sensor and A/C amplifier (See page IN-36).
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NG**Repair or replace harness for connector.****OK****Check and replace A/C amplifier.**