

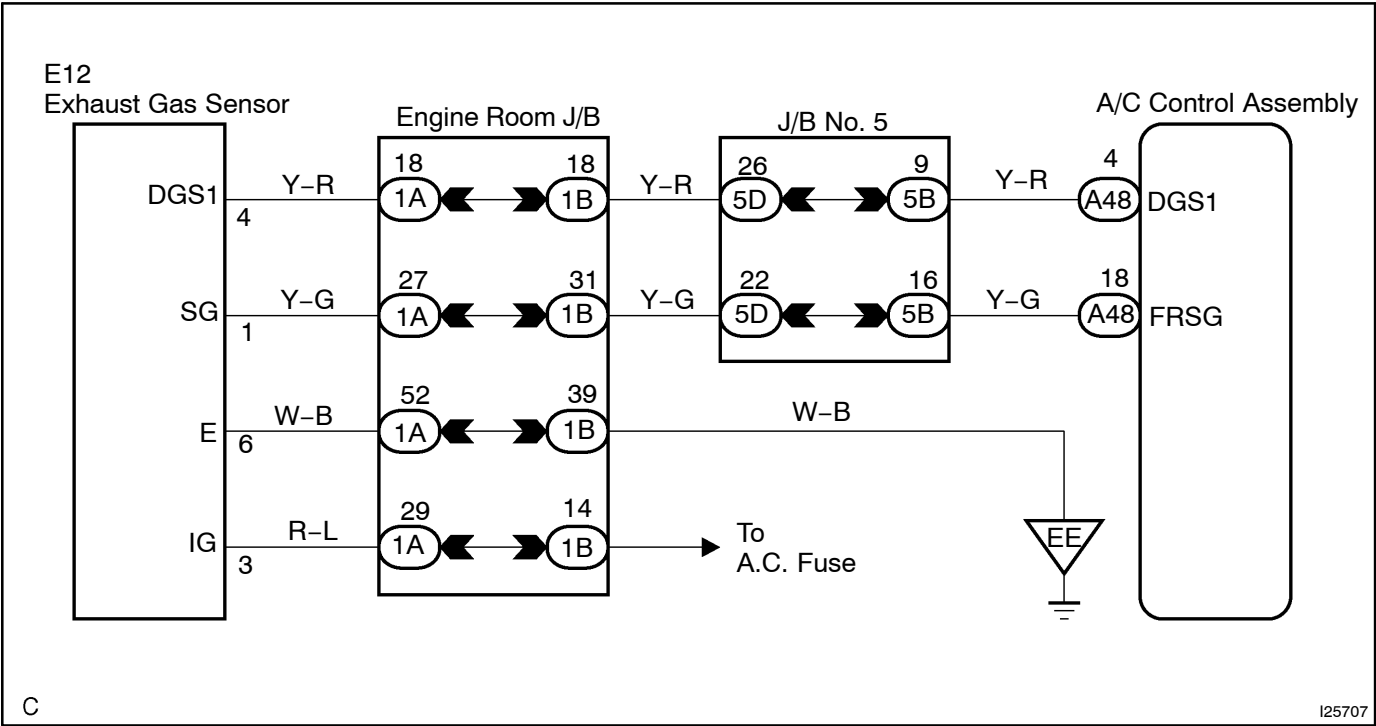
DTC	61	Exhaust Gas Sensor Circuit (NOx)
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CIRCUIT DESCRIPTION

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

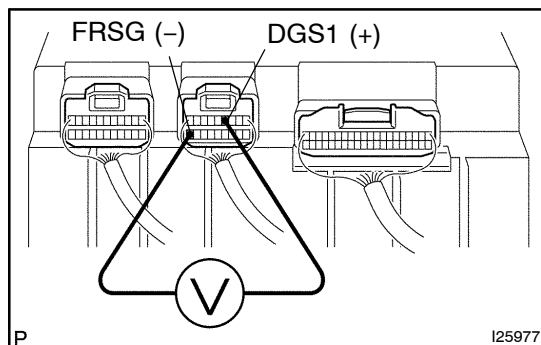
DTC No.	Detection Item	Trouble Area
B1461/61	Short in exhaust gas sensor circuit	- Exhaust gas sensor. - Harness or connector between exhaust gas sensor and A/C amplifier. - A/C amplifier.

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.

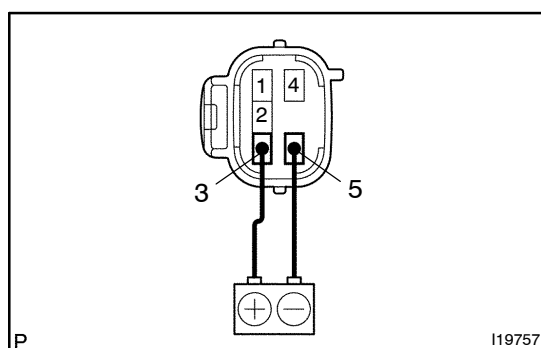
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Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-1722](#)). 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.

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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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Repair or replace harness for connector.

OK

Check and replace A/C amplifier.