

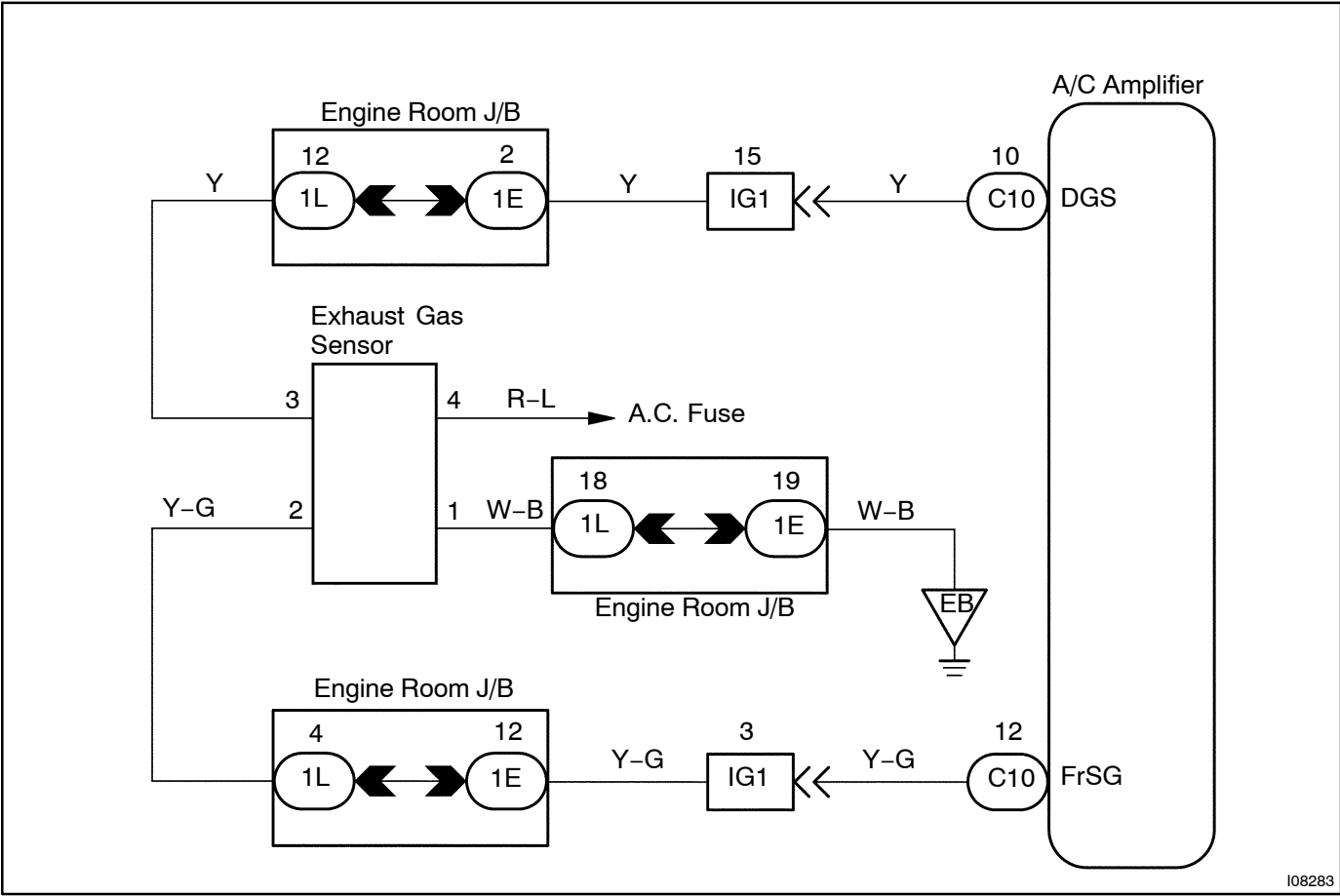
DTC	18	Exhaust gas sensor circuit
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CIRCUIT DESCRIPTION

This sensor detects the exhaust gas outside the vehicle and sends signal to the A/C control assembly.

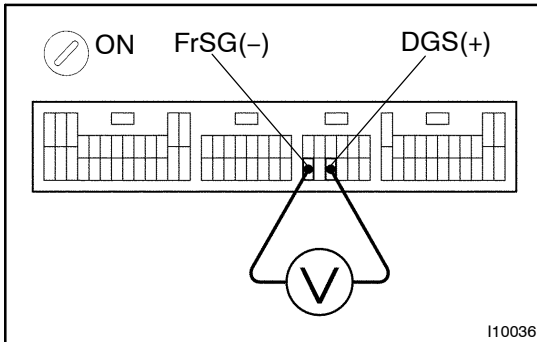
DTC No.	Detection Item	Trouble Area
18	Open or short in exhaust gas sensor circuit	<ul style="list-style-type: none"><li>• Exhaust gas sensor</li><li>• Harness or connector between exhaust gas sensor and A/C amplifier</li><li>• A/C amplifier</li></ul>

WIRING DIAGRAM



## INSPECTION PROCEDURE

1	<b>Check voltage between terminals DGS and FrSG of A/C Amplifier.</b>
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**PREPARATION:**

Remove A/C amplifier with connectors still connected.

**CHECK:**

- (a) Turn ignition switch to ON.
- (b) Check voltage between terminals DGS and FrSG of A/C amplifier assembly 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.

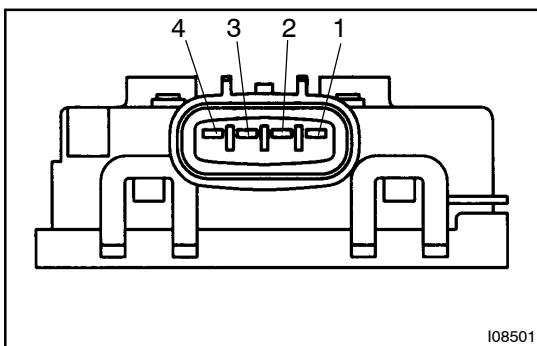
**NG**

**Go to step 2.**

**OK**

Proceed to next circuit inspection shown on problem symptom table (See page [DI-777](#)). However, if DTC 18 is displayed, check and replace A/C amplifier.

2	<b>Check exhaust gas sensor resistance</b>
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**PREPARATION:**

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

**CHECK:**

- (a) Connect positive (+) lead from the battery to the terminal 4 and negative (-) lead to terminal 1.
- (b) After keeping to apply battery positive voltage between terminals 1 and 4 for more than 30 seconds, measure resistance between terminals 2 and 3.

**OK:****Resistance:**

**5 – 100 kΩ at 10 – 35 °C (50 – 95 °F)**

**HINT:**

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

**NG**

**Replace exhaust gas sensor.**

**OK**

3	Check harness and connector between A/C amplifier and exhaust gas sensor.
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NG

Repair or replace harness for connector.

OK

Check and replace A/C amplifier.