DI3F9–02

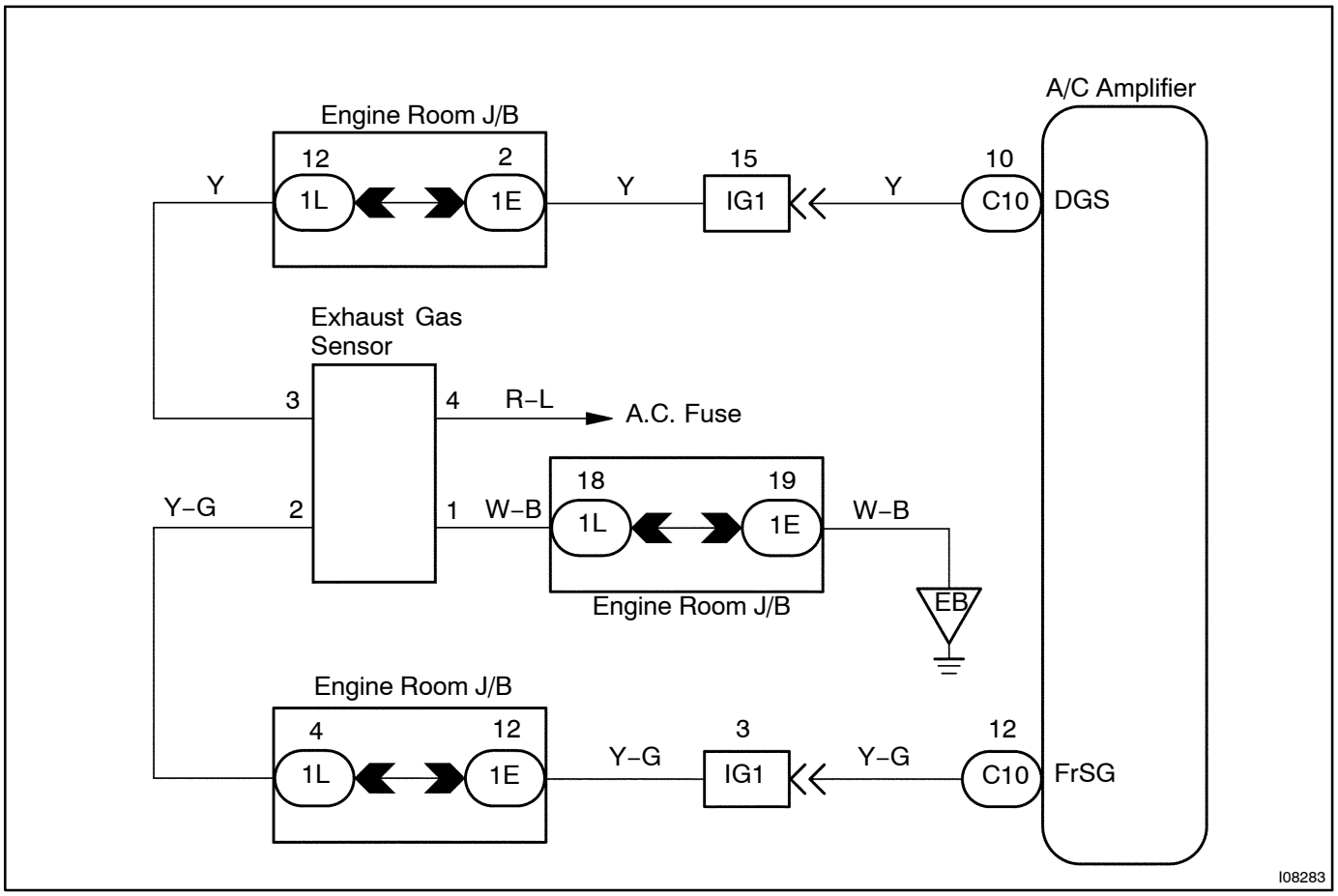
DTC	18	Exhaust gas sensor circuit

CIRCUIT DESCRIPTION

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

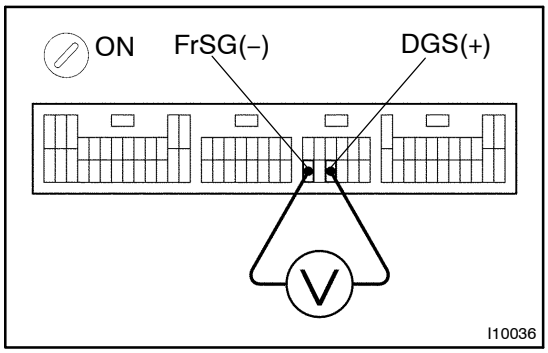
DTC No.	Detection Item	Trouble Area
18	Open or short in exhaust gas sensor circuit	• Exhaust gas sensor • Harness or connector between exhaust gas sensor and A/C amplifier • A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals DGS and FrSG of A/C Amplifier.



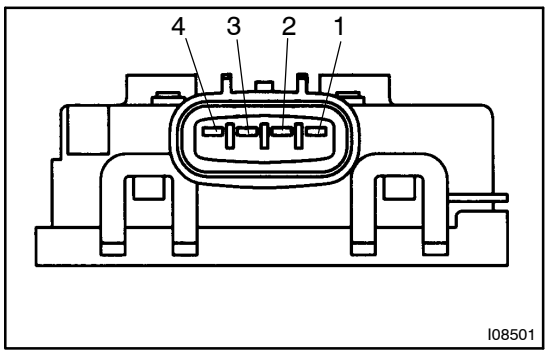
PREPARATION:
Remove A/C amplifier with connectors still connected.
CHECK:
(a) Turn ignition switch to ON.
(b) Check voltage between terminals DGS and FrSG of A/C amplifier assembly connector at the temperature.
OK:
Voltage:
1.0 – 4.5 V at 10 – 35 °C (50 – 95 °F)
HINT:
When the sensor is exposed to the 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–818). However, if DTC 18 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:
(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.

NG → Repair or replace harness for connector.

OK

Check and replace A/C amplifier.