DI3D2–02

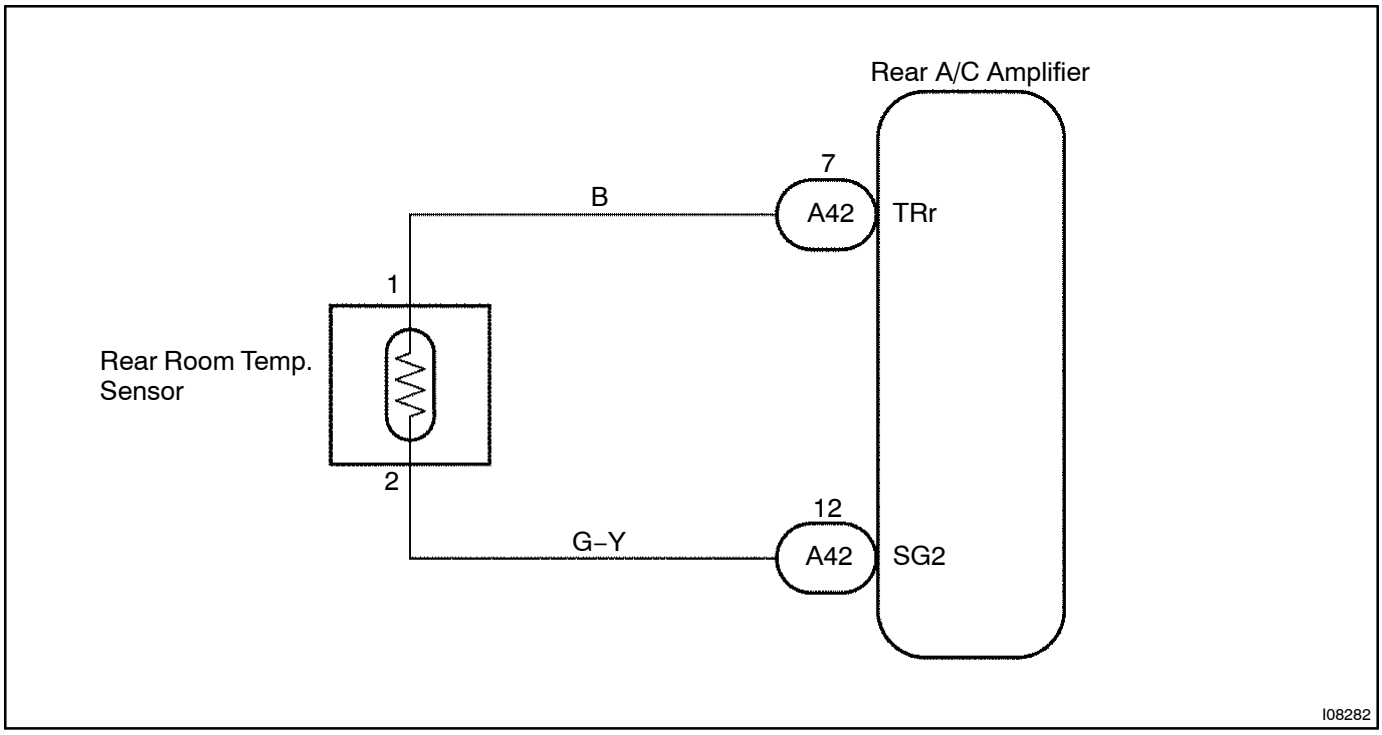
DTC	RrACSW, FACE	Rear Room Temperature Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the temperature inside the cabin and sends the appropriate signals to the A/C amplifier.

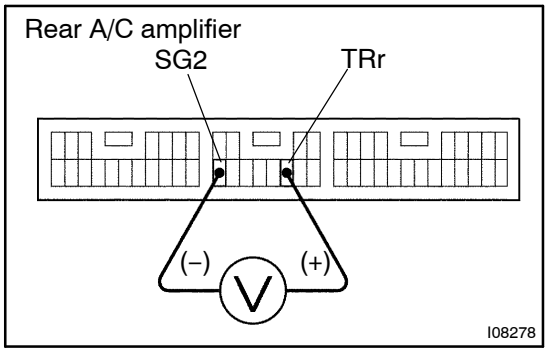
Blinking light	Detection Item	Trouble Area
RrACSW FACE	Open or short in rear room temperature sensor circuit.	• Rear room temperature sensor. • Harness or connector between rear room temperature sensor and A/C amplifier. • Rear A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check voltage between terminals TRr and SG2 of A/C amplifier connector.**



PREPARATION:

Remove rear A/C amplifier with connectors still connected.

CHECK:

(a) Turn ignition switch ON.

(b) Measure voltage between terminals TRr and SG2 of rear A/C amplifier connector at each temperature.

OK:

Voltage :
at 25°C (77°F) : 1.8 – 2.2 V
at 40°C (104°F) : 1.2 – 1.6 V

HINT:

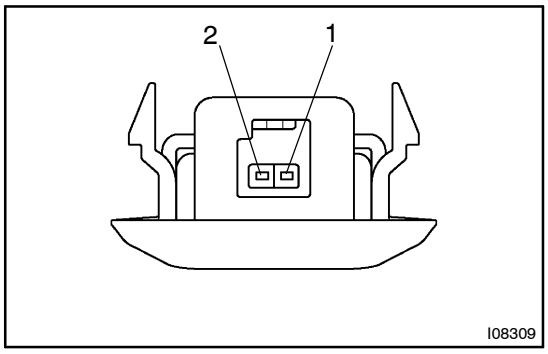
As the temperature increases, the voltage decreases.

NG → **Go to step 3.**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–859). However, if RrACSW and FACE indicator light is light up, check and replace A/C amplifier.

2	Check rear room temperature sensor.



PREPARATION:
Disconnect rear room temperature sensor connector.
CHECK:
Measure resistance between terminals 1 and 2 of room temperature sensor connector at each temperature.
OK:

Resistance :
at 25°C (77°F) : 1.65 – 1.75 kΩ
at 50°C (122°F) : 0.55 – 0.65 kΩ

HINT:
As the temperature increases, the resistance decreases.

NG → **Replace rear room temperature sensor.**

OK ↓

3	Check harness and connector between rear A/C amplifier and rear room temperature sensor (See page IN–35).

NG → **Repair or replace harness or connector.**

OK ↓

Check and replace A/C amplifier.