DI90Q–01

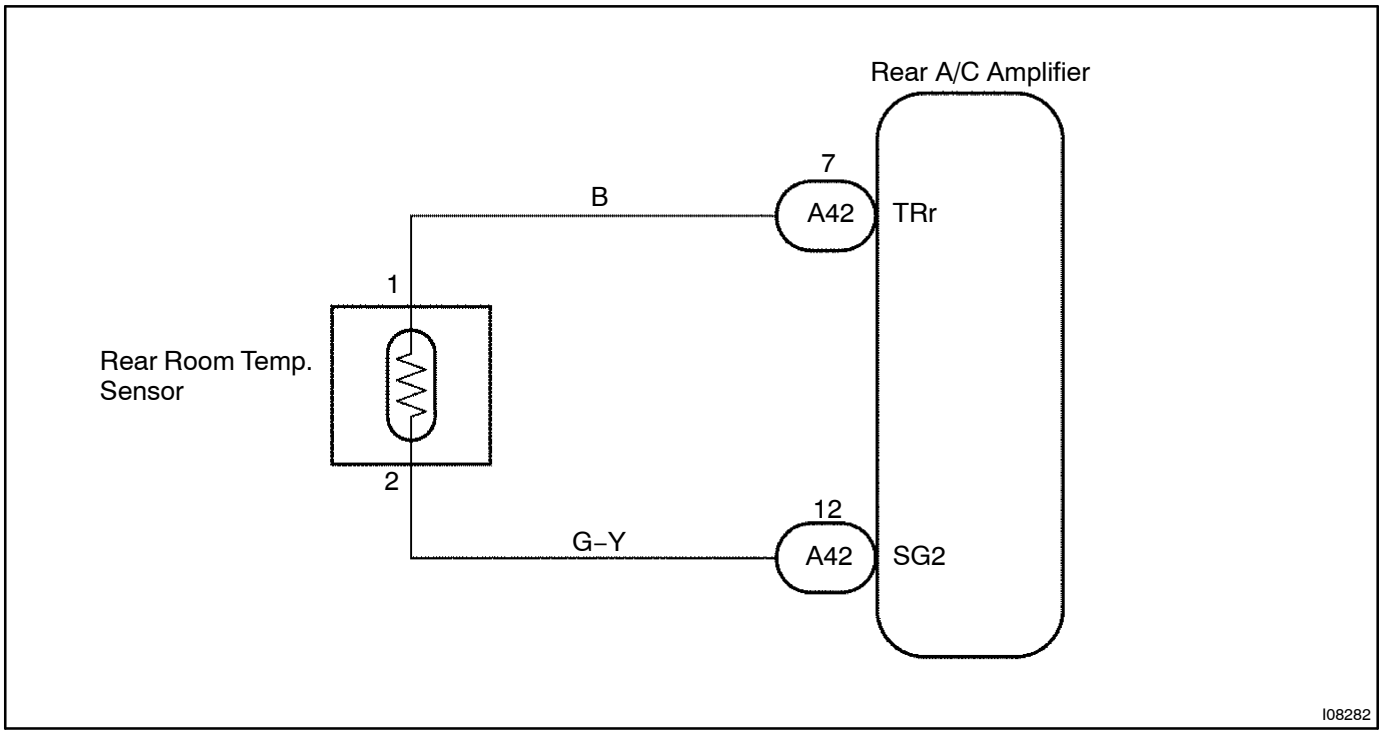
DTC	RrACSW, FACE	Rear Room Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

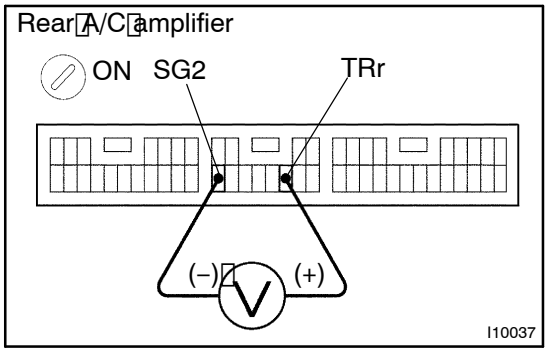
Blinking light	Detection Item	Trouble Area
RrACSW, FACE	Open or short in rear room temperature sensor circuit.	• Rear room temperature sensor. • Harness or connector between rear room temperature sensor and rear A/C amplifier. • Rear A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

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



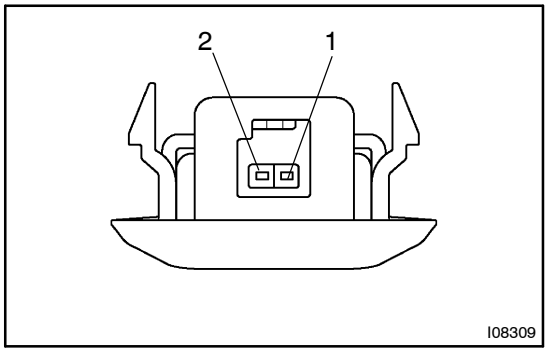
PREPARATION:
Remove rear A/C amplifier with connectors still connected.
CHECK:
(a) Turn ignition switch to ON.
(b) Measure voltage between terminals TRr and SG2 of rear A/C amplifier connector at each temperature.
OK:
Voltage :
at 25°C (77°F) : 1.8 – 2.2 V
at 40°C (104°F) : 1.2 – 1.6 V
HINT:
As the temperature increases, the voltage decreases.

NG	Go to step 3.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–130). However, if RrACSW and FACE indicators light up (or DTC19 is displayed), 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–34).

NG → Repair or replace harness or connector.

OK →

Check and replace A/C amplifier.