DI3D5–02

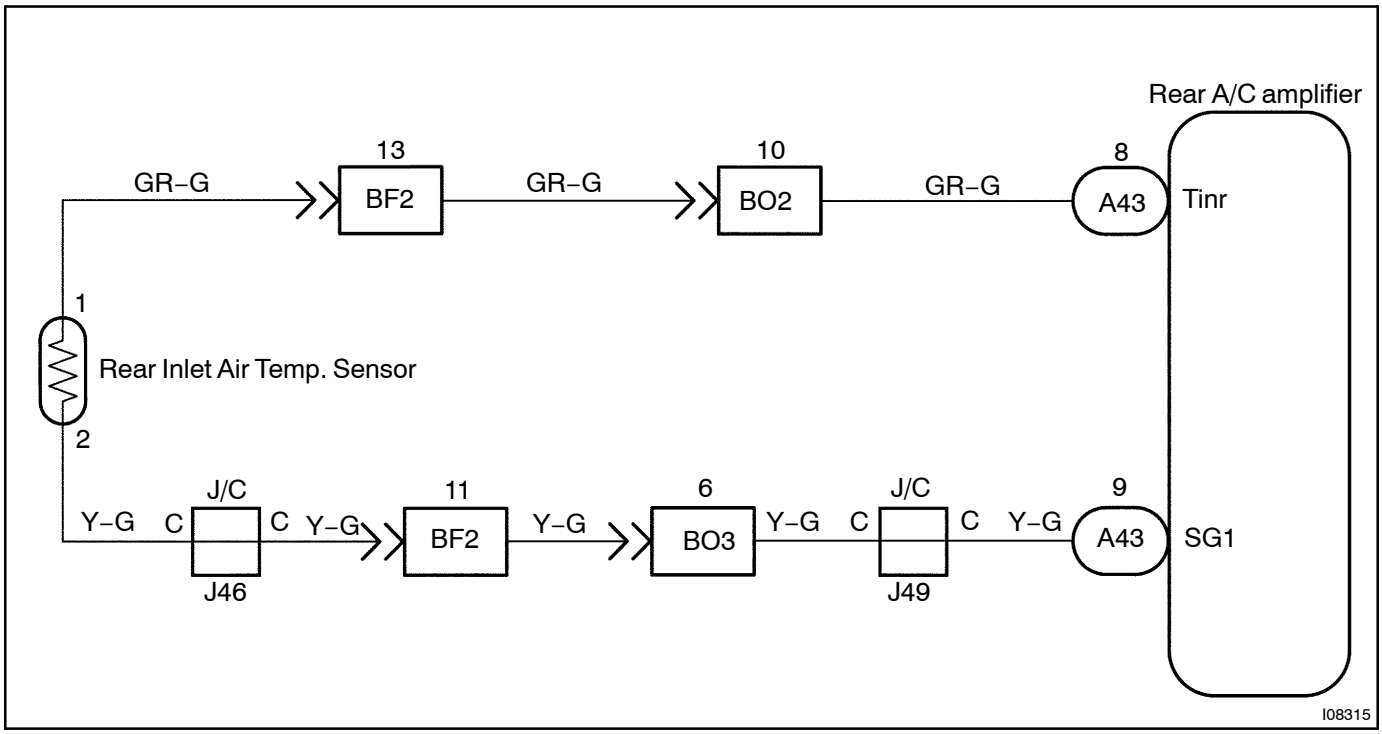
DTC	RrACSW, HI	Rear Inlet Air Temperature Sensor Circuit

CIRCUIT DESCRIPTION

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

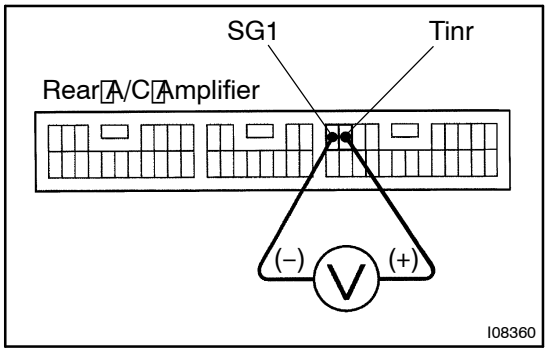
Blinking light	Detection Item	Trouble Area
RrACSW HI	Open or short in rear inlet air temperature sensor circuit.	• Rear inlet air temperature sensor. • Harness or connector between rear inlet air temperature sensor and rear A/C amplifier. • Rear A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals Tinr and SG1 of rear 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 Tinr and SG1 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:

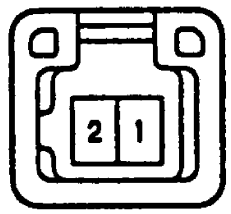
As the temperature increases, the voltage decreases.

NG	Go to step 2.

OK

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

2	Check rear inlet air temperature sensor.



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PREPARATION:
Disconnect rear inlet air temperature sensor connector.
CHECK:
Measure resistance between terminals 1 and 2 of rear inlet air 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 inlet air temperature sensor.**

OK

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

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

OK

Check and replace rear A/C amplifier.