DI1U5–04

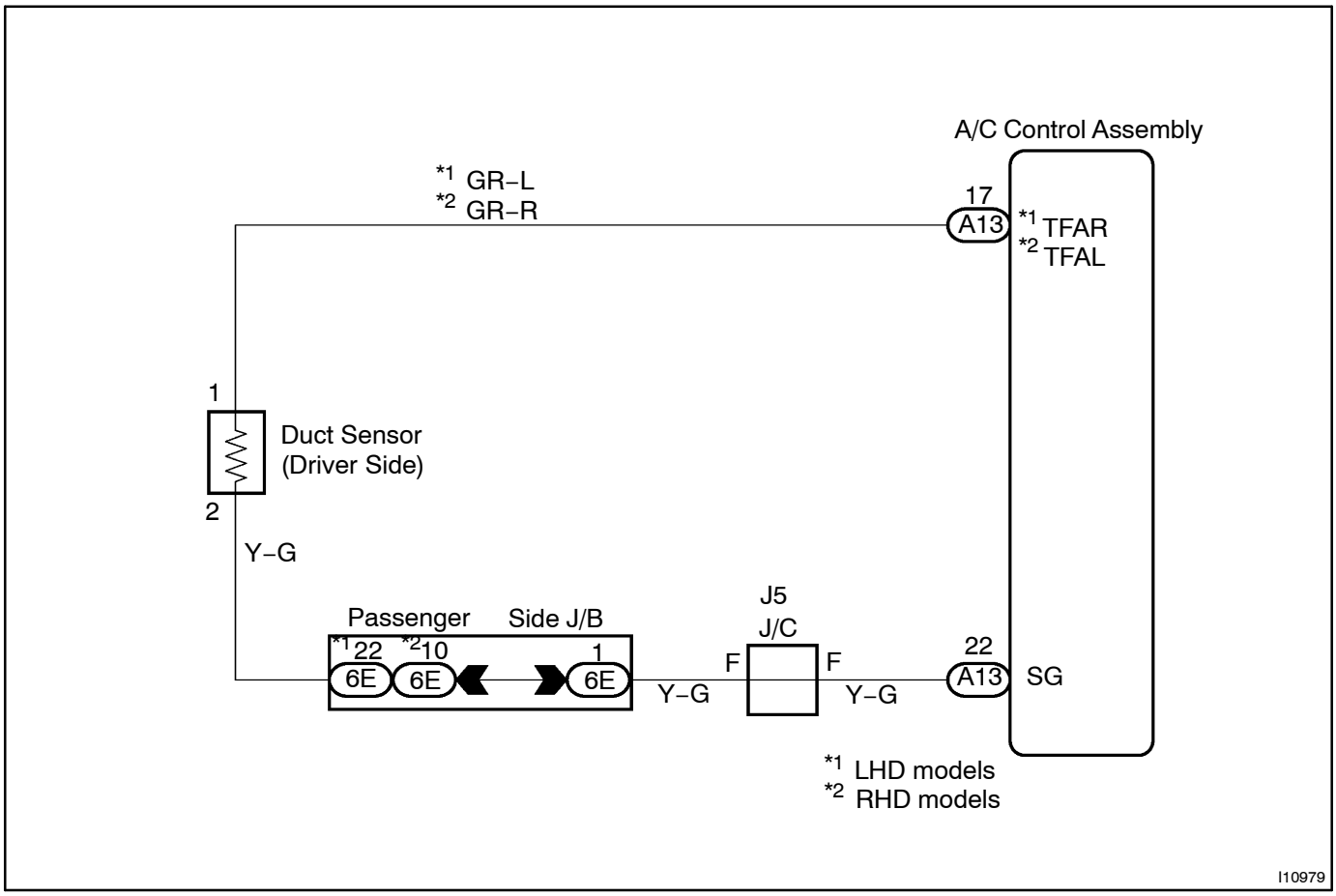
DTC	15	Air Duct Sensor Circuit (Driver Side)

CIRCUIT DESCRIPTION

This sensor detects the register temperature and sends the appropriate signals to the A/C control assembly.

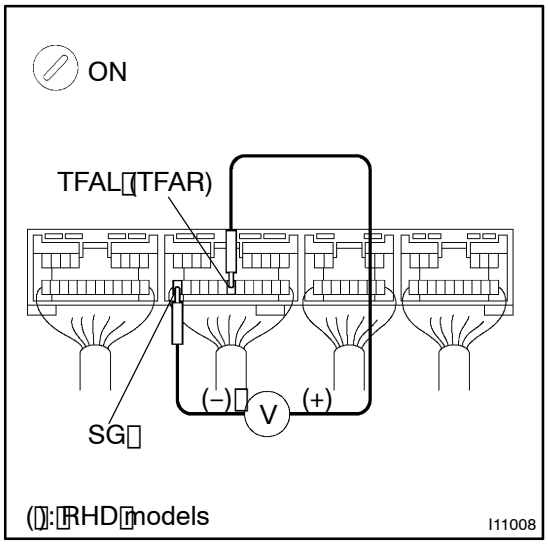
DTC No.	Detection Item	Trouble Area
15	Open or short in duct sensor circuit.	• Duct sensor. • Harness or connector between duct sensor and A/C control assembly. • A/C control assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminals TFAL (RHD:TFAR) and SG of A/C control assembly connector.



PREPARATION:
Remove A/C control assembly with connectors still connected.
CHECK:
(a) Turn ignition switch to ON.
(b) Check voltage between terminals TFAL (THAR) and SG of A/C control assembly connector at each register temperature. (): RHD models
OK:

Voltage
at 25°C (77°F): 1.8 – 2.2 V
at 50°C (122°F): 0.8 – 1.2 V

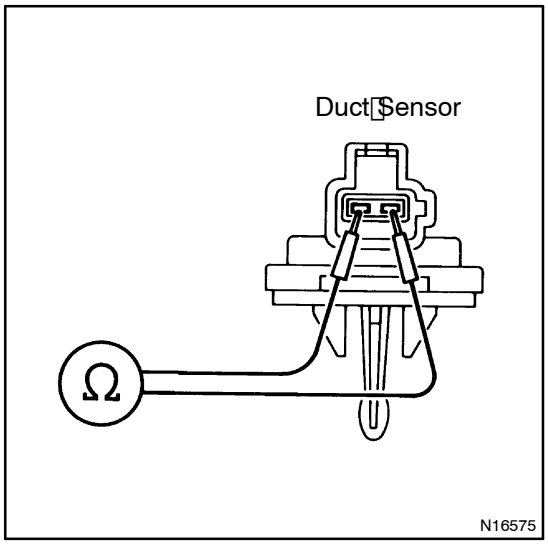
HINT:
As the temperature increases, the voltage decreases.

NG	Go to step 2.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI–780). However, if DTC 15 is displayed, check and replace A/C control assembly.

2	Check duct sensor.



PREPARATION:
Remove duct sensor (See page AC–97).
CHECK:
Check resistance between terminals of duct sensor connector at each temperature.
OK:

Resistance
at 0°C (32°F): 14.5 – 19.0 kΩ
at 25°C (77°F): 4.8 – 5.2 kΩ
at 50°C (122°F): 1.6 – 2.0 kΩ

HINT:
As the temperature increases, the resistance decreases.

NG	Replace duct sensor.

OK

3	Check harness and connector between A/C control assembly and duct sensor (See page IN–30).

NG → Repair or replace harness or connector.

OK →

Check and replace A/C control assembly.