

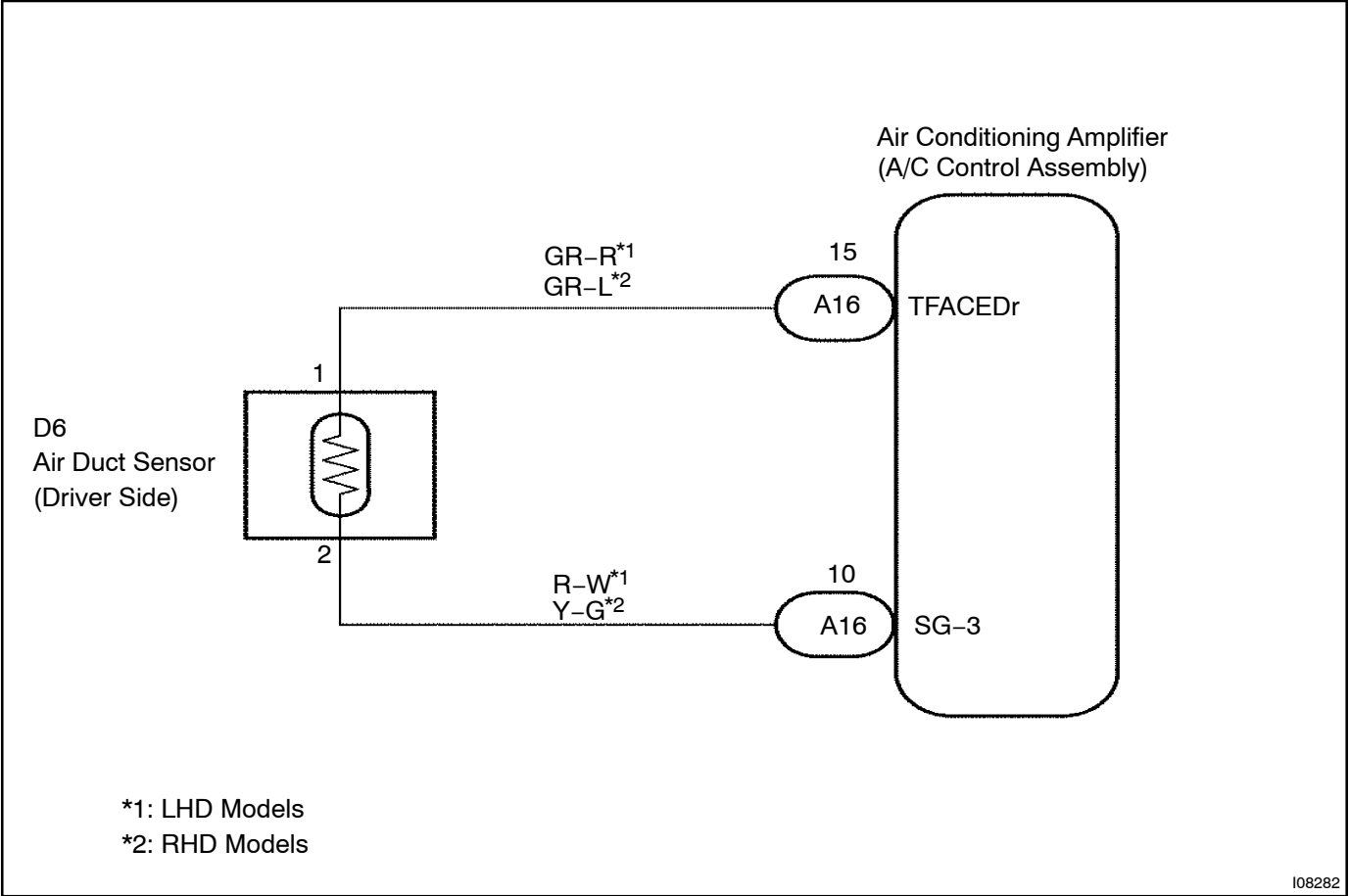
DTC	B1415	AIR DUCT SENSOR CIRCUIT (DRIVER SIDE)
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CIRCUIT DESCRIPTION

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

DTC No.	Detection Item	Trouble Area
B1415	Air duct sensor circuit (Driver side) (Open or short)	<ul style="list-style-type: none">• Air duct sensor• Harness or connector between duct sensor and A/C amplifier• A/C amplifier

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE ON INTELLIGENT TESTER

- (a) Connect the Intelligent Tester II to the DLC3.
- (b) Turn the Ignition switch to the ON position and push the Intelligent Tester II main switch on.
- (c) Select the item below in the DATA LIST, and read the display on the Intelligent Tester II.

DATA LIST – AIR CONDITIONER:

Item	Measure Item/Display (Range)	Normal Condition	Diagnostic Note
Duct sensor (D side) (Duct Temp-D)	Duct sensor (Driver side) min.: -12.7°C (9.14°F) max.: 76.55°C (169.79°F)	Actual duct temperature is displayed (Driver side)	-

OK:

The display is as specified in the normal condition.

Result:

NG	A
OK (Checking from the PROBLEM SYMPTOM TABLE)	B
OK (Checking from the DTC)	C

B

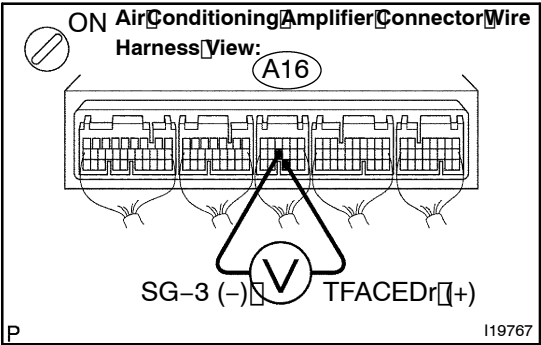
**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-778)**

C

**REPLACE AIR CONDITIONING AMPLIFIER
(SEE PAGE 55-16)**

A

2 INSPECT AIR CONDITIONING AMPLIFIER (TFACEDr - SG-3)



- (a) Remove the A/C amplifier with connectors still connected.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A16-15 (TFACEDr) - A16-10 (SG-3)	Ignition switch ON at 25°C (77°F)	1.8 to 2.2 V
A16-15 (TFACEDr) - A16-10 (SG-3)	Ignition switch ON at 50°C (122°F)	0.8 to 1.2 V

HINT:
As the temperature increases, the voltage decreases.

Result:

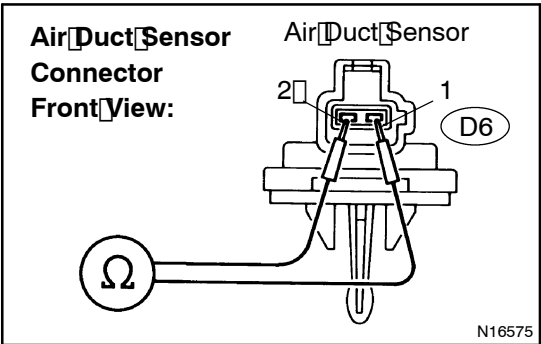
NG	A
OK (Checking from the PROBLEM SYMPTOM TABLE)	B
OK (Checking from the DTC)	C

B PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-778)

C REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-10)

A

3 INSPECT AIR DUCT SENSOR



- (a) Remove the air duct sensor.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D6-1 - D6-2	at 0°C (32°F)	14.5 to 19.0 kΩ
D6-1 - D6-2	at 25°C (77°F)	4.8 to 5.2 kΩ
D6-1 - D6-2	at 50°C (122°F)	1.6 to 2.0 kΩ

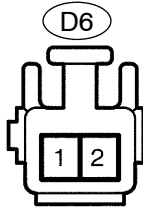
HINT:
As the temperature increases, the resistance decreases.

NG REPLACE AIR DUCT SENSOR

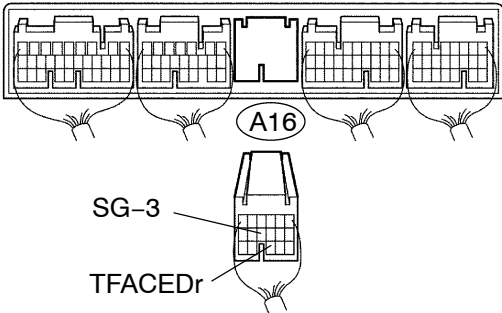
OK

4. CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER - AIR DUCT SENSOR) (SEE PAGE 01-44)

Air Duct Sensor Connector
Front View:



Air Conditioning Connector
Wire Harness View:



P

I36245

(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
A16-15 (TFACEDr) - D6-1	Always	Below 1 Ω
A16-10 (SG-3) - D6-2	Always	Below 1 Ω
A16-15 (TFACEDr) - Body Ground	Always	10 k Ω or higher
A16-10 (SG-3) - Body Ground	Always	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-16)