

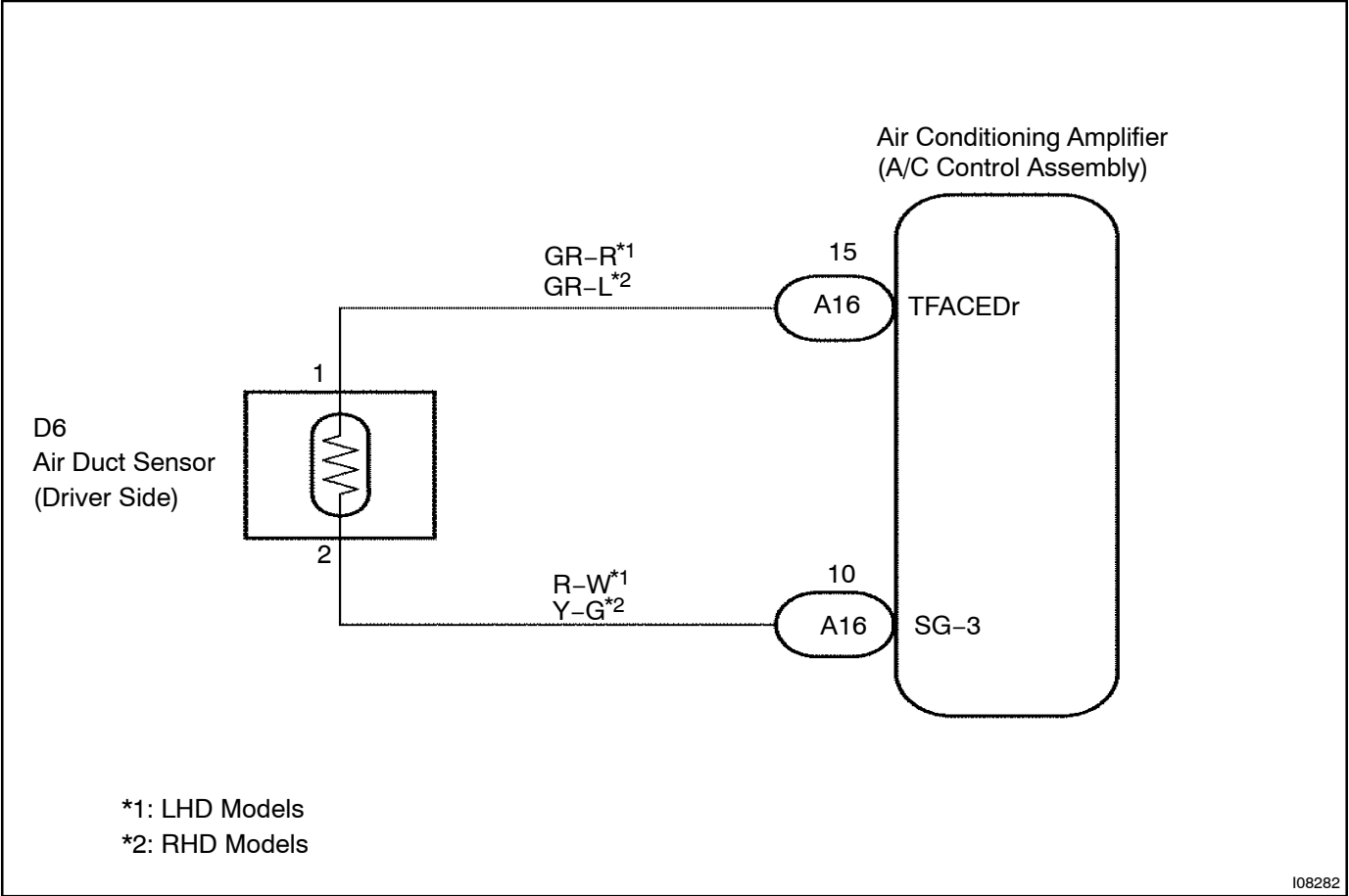
DTC	B1415	AIR DUCT SENSOR CIRCUIT (DRIVER SIDE)
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CIRCUIT DESCRIPTION

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)	• 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 II

- (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

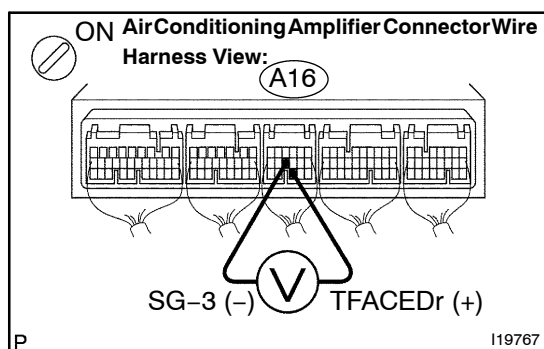
**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-778)**

C

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

A

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



- Remove the A/C amplifier with connectors still connected.
- Turn the ignition switch to the ON position.
- 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

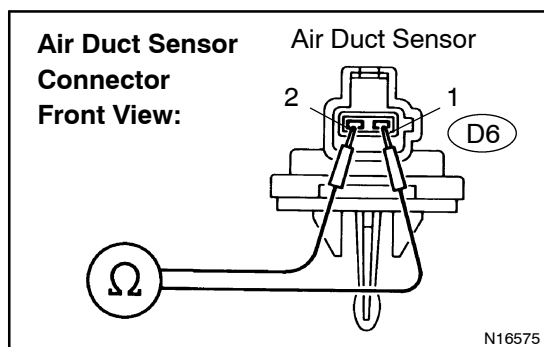
**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-778)**

C

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

A

3 INSPECT AIR DUCT SENSOR



- Remove the air duct sensor.
- 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

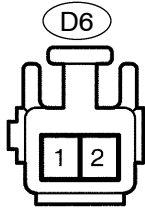
REPLACE AIR DUCT SENSOR

OK

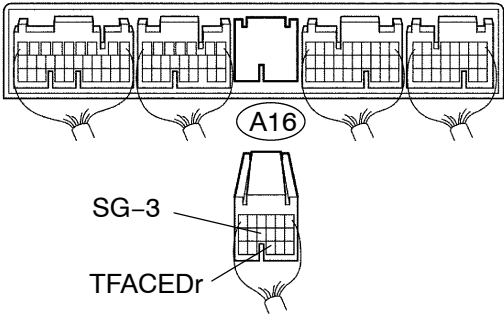
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CHECK HARNESS AND CONNECTOR(AIR CONDITIONING AMPLIFIER - AIR DUCT SENSOR) (SEE PAGE 01-44)

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)