

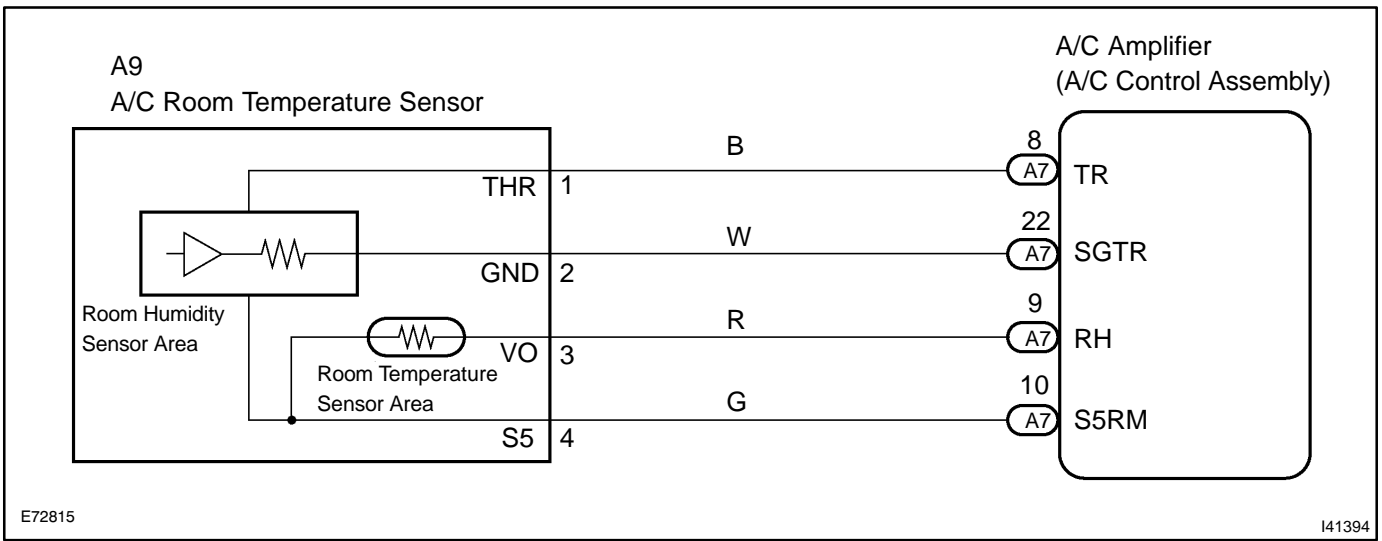
DTC	B1462	ROOM HUMIDITY SENSOR CIRCUIT
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CIRCUIT DESCRIPTION

The A/C room humidity sensor detects room humidity. The voltage of the A/C room humidity sensor changes in accordance with room humidity. The A/C amplifier reads changes in the A/C room humidity sensor. The A/C room humidity sensor is integrated with A/C room temperature sensor.

DTC No.	Detection item	Trouble Area
B1462	Open or short in room humidity sensor circuit	<ul style="list-style-type: none"> • A/C room humidity sensor (A/C room temperature sensor) • Harness or connector between A/C room humidity sensor (A/C room temperature sensor) and A/C amplifier • A/C amplifier

WIRING DIAGRAM



E72815

I41394

INSPECTION PROCEDURE

1 READ VALUE ON HAND-HELD TESTER

- (a) Connect the hand-held tester to DLC3.
 (b) Turn the power switch ON and push the hand-held tester main switch ON.
 (c) Select the item below in the DATA LIST, and read the display on the hand-held tester.

DATA LIST / AIR CONDITIONER:

Item	Measurement Item/Display (Range)	Normal Condition	Diagnostic Note
HUMIDITY SENS	Humidity sensor / min.: 0% max.: 100%	Actual room humidity is displayed	-

OK:

The displayed 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

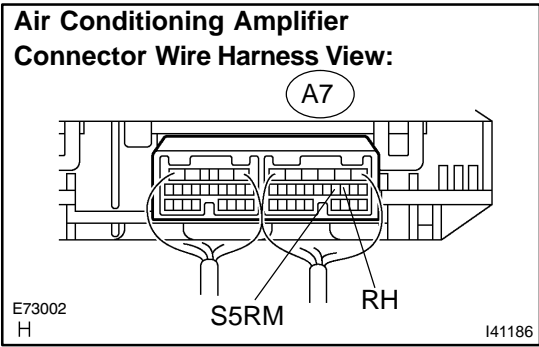
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1268)

C

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-47)

A

2 INSPECT AIR CONDITIONING AMPLIFIER(RH-S5RH)



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

Standard:

Tester connection	Condition	Specified condition
A7-9 (RH) - A7-10 (S5RM)	Power switch ON at 25 °C (77 °F)	1.8 to 2.2 V
A7-9 (RH) - A7-10 (S5RM)	Power switch ON at 40 °C (104 °F)	1.2 to 1.6 V

HINT:

As the temperature increases, the voltage decreases.

Result:

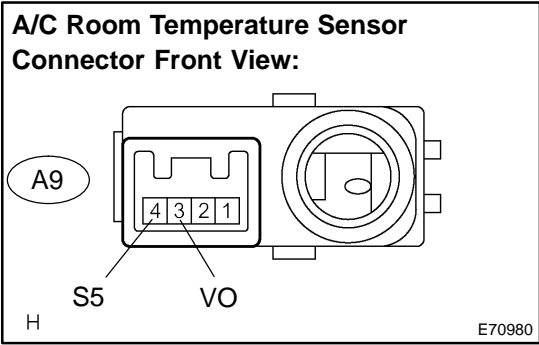
NG	A
OK (Checking from the PROBLEM SYMPTOMS TABLE)	B
OK (Checking from the DTC)	C

B → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1268)**

C → **REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-47)**

A

3 INSPECT A/C ROOM TEMPERATURE SENSOR (HUMIDITY SENSOR)



- (a) Remove the A/C room temperature sensor.
- (b) Disconnect the connector from A/C room temperature sensor.
- (c) Measure the resistance according to the value(s) in the table below.

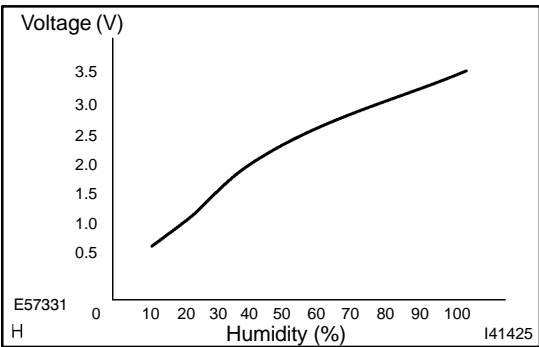
Standard:

at 25°C (77°F) Humidity 40%: 1.61 to 2.24 V

at 25°C (77°F) Humidity 60%: 2.26 to 2.66 V

HINT:

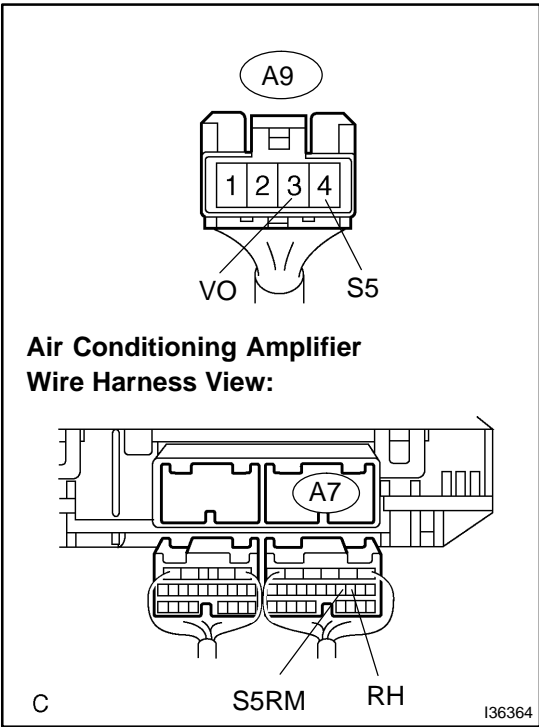
As the humidity increases, the resistance decreases (see the graph below).



NG → **REPLACE A/C ROOM TEMPERATURE SENSOR**

OK

4 CHECK HARNESS AND CONNECTOR(A/C ROOM HUMIDITY SENSOR – AIR CONDITIONING AMPLIFIER) (SEE PAGE 01-47)



- (a) Disconnect the connector from A/C room temperature sensor and air conditioning amplifier.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A7-9 (RH) – A9-3 (VO)	Always	Below 1 Ω
A7-10 (S5RM) – A9-4 (S5)	Always	Below 1 Ω
A7-9 (RH) – Body ground	Always	10 kΩ or higher
A7-10 (S5RM) – Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE AIR CONDITIONING AMPLIFIER (SEE PAGE 55-47)