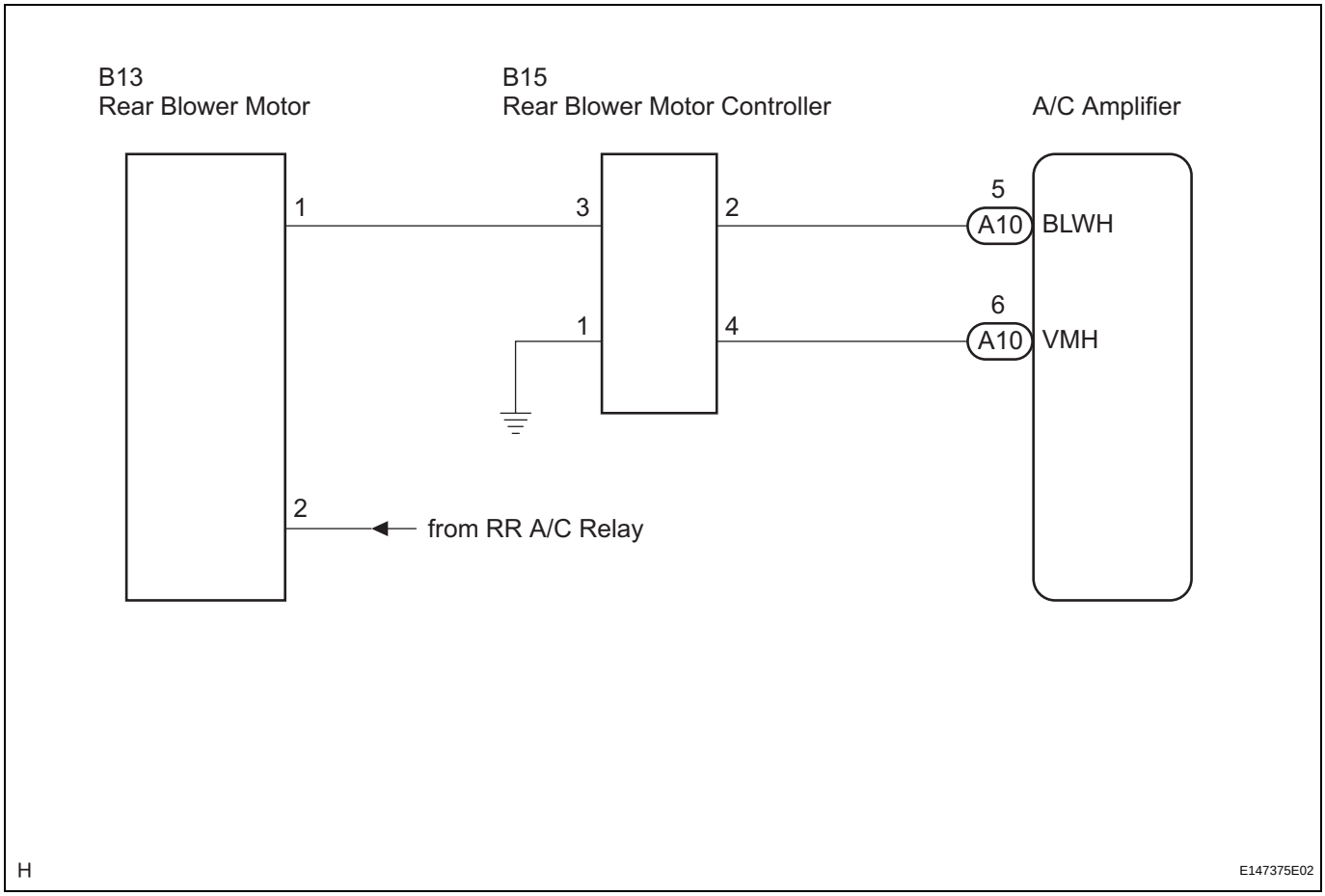
Rear Blower Motor Circuit

DESCRIPTION

Power to the rear blower motor is supplied from the battery via the RR A/C relay.
The rear blower motor speed level varies between 0 and 31 based on the voltage difference measured between the terminals of the motor.
The voltage difference measured between the terminals of the rear blower motor changes in proportion to the control at the rear blower motor controller on the ground side.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester main switch on.
(c) Select the item below in the DATA LIST, and read the display on the intelligent tester.

DATA LIST / AIR CONDITIONER

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
BLOWER LEVEL-R	Blower motor speed level (Rear) / min.: Level 0, max.: Level 31	Changes depending on blower level (Rear)	-

OK:

The display is as specified in the normal condition.

NG → **Go to step 2**

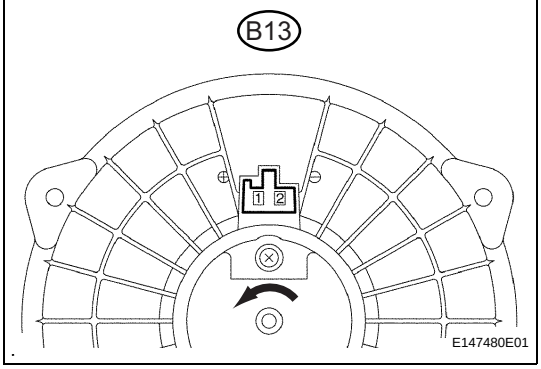
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

AC

2 INSPECT REAR BLOWER MOTOR

Component without harness connected:
(Rear Blower Motor)



(a) Remove the rear blower motor with the connector still connected.
(b) Disconnect the connector from the rear blower motor.
(c) Connect the positive (+) lead to terminal 1 of the rear blower motor connector, and the negative (-) lead to terminal 2.

OK:

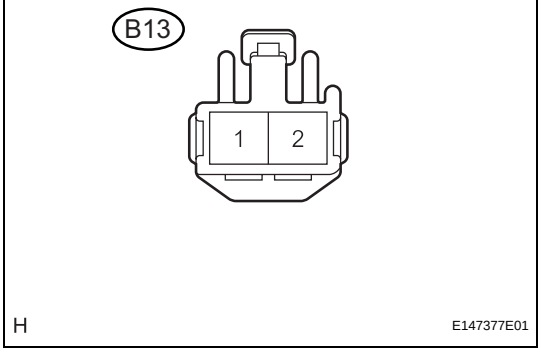
The rear blower motor operates smoothly.

NG → **REPLACE REAR BLOWER MOTOR**

OK

3 CHECK HARNESS AND CONNECTOR (REAR BLOWER MOTOR - BATTERY)

Front view of wire harness connector:
(to Rear Blower Motor)



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

Standard voltage

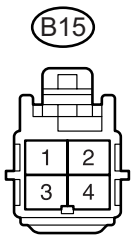
Tester Connection	Condition	Specified Condition
B13-2 - Body ground	Ignition switch: ON Rear blower control dial: OFF	Below 1 V
B13-2 - Body ground	Ignition switch: ON Rear blower control dial: ON	11 to 14 V

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

OK

4	CHECK HARNESS AND CONNECTOR (REAR BLOWER MOTOR CONTROLLER - BODY GROUND)

Front view of wire harness connector:
(to Rear Blower Motor Controller)



E147481E01

(a) Disconnect the connector from the rear blower motor controller.
(b) Measure the resistance according to the value(s) in the table below.
Standard resistance

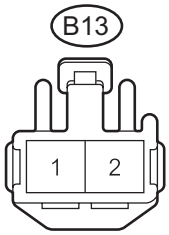
Tester Connection	Condition	Specified Condition
B15-1 - Body ground	Always	Below 1 Ω

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

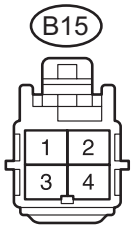
OK

5	CHECK HARNESS AND CONNECTOR (REAR BLOWER MOTOR - REAR BLOWER MOTOR CONTROLLER)

Front view of wire harness connector:
(to Rear Blower Motor)



(to Rear Blower Motor Controller)



E147583E01

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

Tester Connection	Condition	Specified Condition
B13-1 - B15-3	Always	Below 1 Ω
B13-1 - Body ground	Always	10 kΩ or higher

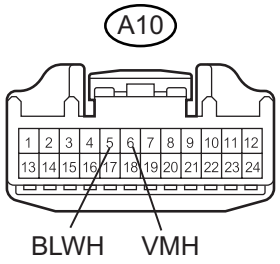
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

AC

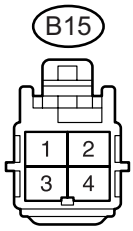
OK

6 CHECK HARNESS AND CONNECTOR (REAR BLOWER MOTOR CONTROLLER - A/C AMPLIFIER)

Front view of wire harness connector:
(to A/C Amplifier)



(to Rear Blower Motor Controller)



E147506E01

(a) Disconnect the connector from the A/C amplifier.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

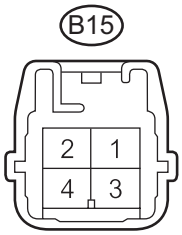
Tester Connection	Condition	Specified Condition
A10-5 (BLWH) - B15-2	Always	Below 1 Ω
A10-6 (VMH) - B15-4	Always	Below 1 Ω
A10-5 (BLWH) - Body ground	Always	10 kΩ or higher
A10-6 (VMH) - Body ground	Always	10 kΩ or higher

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

OK

7 INSPECT REAR BLOWER MOTOR CONTROLLER

Component without harness connected:
(Rear Blower Motor Controller)



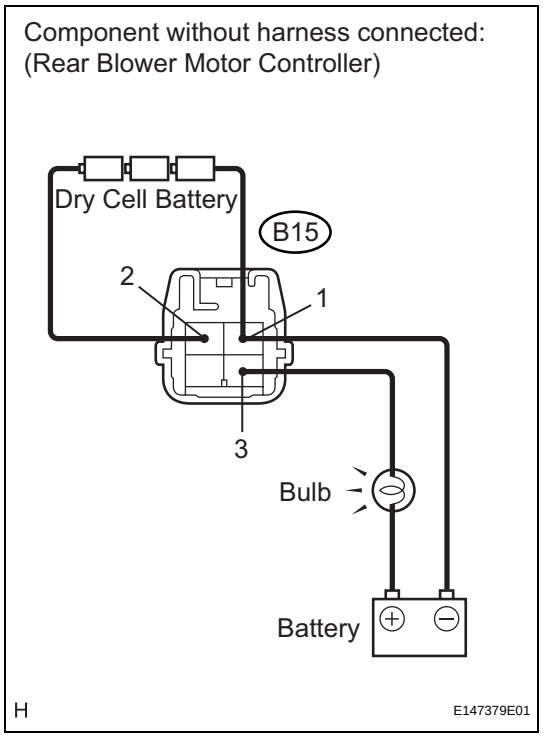
H

E108912E05

(a) Disconnect the connector from the rear blower motor controller.
(b) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
B15-3 - B15-4	Always	2.0 to 2.4 kΩ



(c) Connect the positive (+) lead to terminal 3 through a 12 V 3.4 W test bulb, and the negative (-) lead to terminal 1.

(d) Connect the three 1.5 V dry cell batteries' positive (+) lead to terminal 2, and the negative (-) lead to terminal 1. Then check that the test bulb comes on.

OK:

The test bulb comes on.

NG → **REPLACE REAR BLOWER MOTOR CONTROLLER**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

AC