

<b>DTC</b>	<b>C1741/41A</b>	<b>AIR SUS RELAY CIRCUIT</b>
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## CIRCUIT DESCRIPTION

When "UP" side of the height control switch is pressed, a signal is sent from terminal RC of the suspension control ECU to the AIR SUS relay to turn it on.

As a result, the current flows to the AIR SUS relay coil, closing the relay contact, and then the battery positive voltage is applied to the compressor, which causes the compressed air to raise the vehicle height.

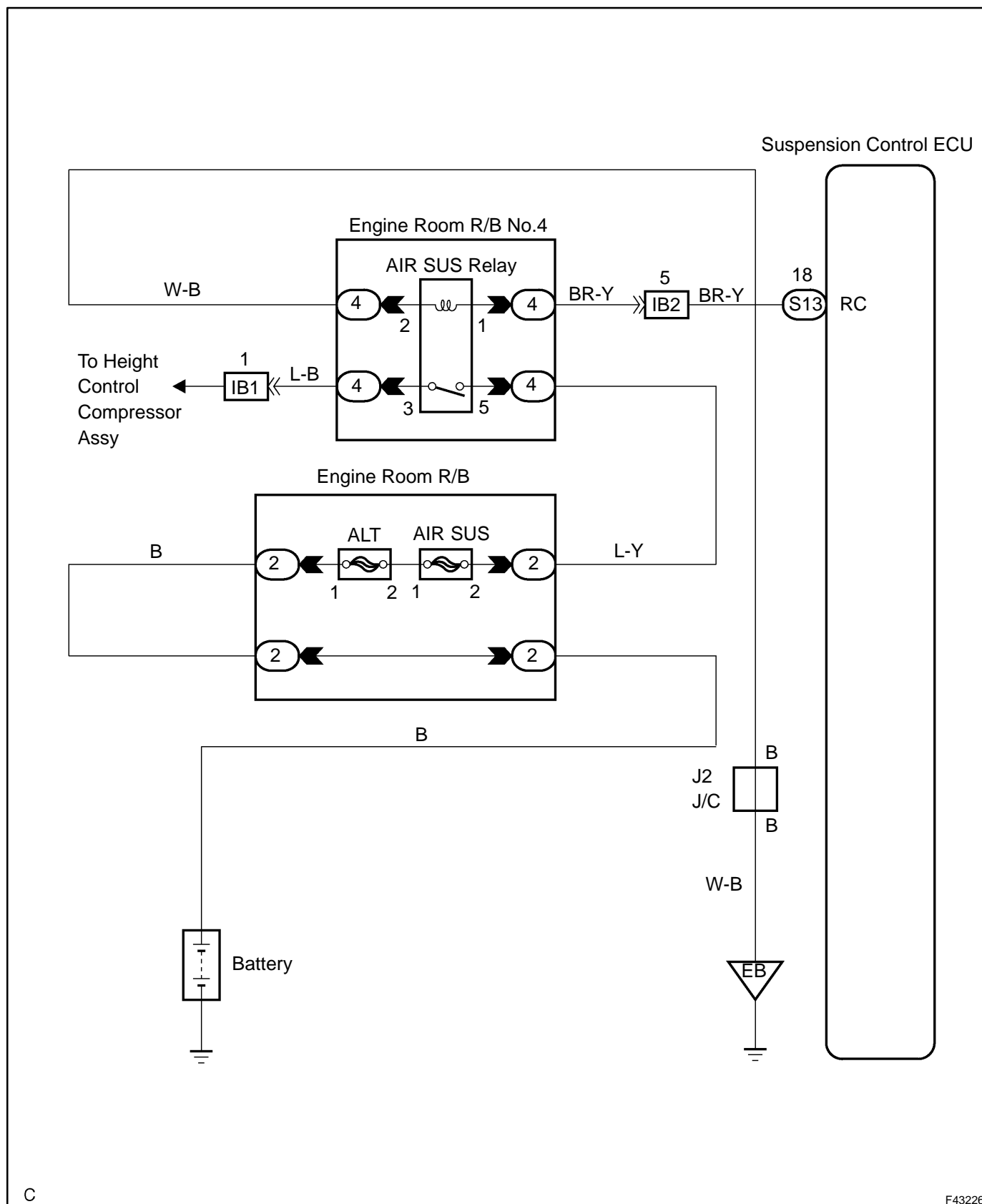
DTC No.	DTC Detecting Condition	Trouble Area
C1741/41	Either the condition 1. or 2. is detected. 1. With the AIR SUS relay inactivated, an open signal of the AIR SUS relay is detected for 1 sec. or more. 2. With the AIR SUS relay activated, a short signal of the AIR SUS relay is detected 8 times successively.	<ul style="list-style-type: none"><li>• AIR SUS relay</li><li>• AIR SUS relay circuit</li><li>• Suspension control ECU</li></ul>

### HINT:

Once ECU stores DTC C1741/41 in the memory, the vehicle height control is not carried out until a normal signal is input to ECU from the AIR SUS relay.

However, the control resumes if the ignition switch is once turned OFF, and then turned ON again.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### HINT:

- If DTC C1761/61 (ECU malfunction) and/or C1774/74 (power source circuit) is displayed, perform the inspection necessary for DTC C1761/61 (See page 05-270 ) and/or C1774/74 (See page 05-272 ) first.  
(If DTC C1761/61 and C1774/74 are output at the same time, perform the inspection necessary for DTC C1774/74 first.)
- Start the inspection from step 1 in case of using the hand-held tester and start from step 2 in case of not using the hand-held tester.

### 1 PERFORM ACTIVE TEST BY HAND-HELD TESTER

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch to ON, and turn the hand-held tester main switch ON.
- Select the item "MOTOR RELAY" in the ACTIVE TEST, and operate it with the hand-held tester.
- Check the operation sound of the AIR SUS relay when operating it with the hand-held tester.

#### Standard:

The operation sound of the AIR SUS relay can be heard.

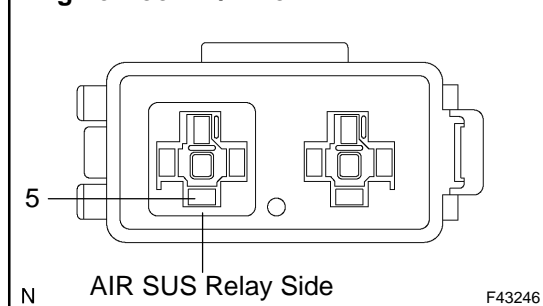
OK

Go to step 5

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### 2 INSPECT TERMINAL VOLTAGE(AIR SUS RELAY 5 TERMINAL OF ENGINE ROOM R/B NO.4)

#### Engine Room R/B No.4:



- Remove the AIR SUS relay from the engine room R/B No.4.
- Measure voltage between terminal 5 of the engine room R/B No.4 (for AIR SUS relay) and body ground.

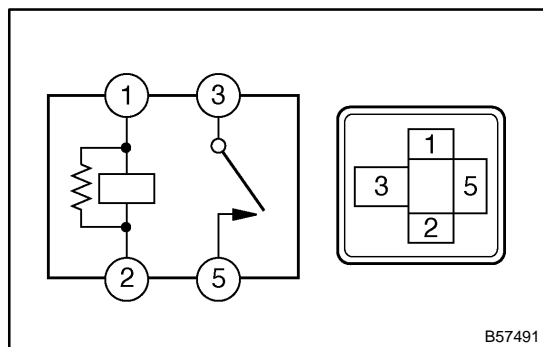
#### Standard:

10 - 14 V

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Go to step 6

OK

**3 INSPECT AIR SUS RELAY**

- (a) Check continuity between each terminal of the AIR SUS relay.

**Standard:**

Tester connection	Specification
1 - 2	Continuity (Reference value 62 $\Omega$ )
3 - 5	No continuity

- (b) Apply battery positive voltage between terminals 1 and 2.  
 (c) Check continuity between terminals 3 and 5 of the AIR SUS relay.

**Standard:**

Tester connection	Specification
3 - 5	Continuity

**NG****REPLACE AIR SUS RELAY****OK****4 CHECK HARNESS AND CONNECTOR(AIR SUS RELAY - SUSPENSION CONTROL ECU)**

- (a) Check for open and short circuit in the harness and the connector between the AIR SUS relay and the suspension control ECU (See page [01-35](#) ).

**NG****REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****5 CHECK HARNESS AND CONNECTOR(AIR SUS RELAY - BODY GROUND)**

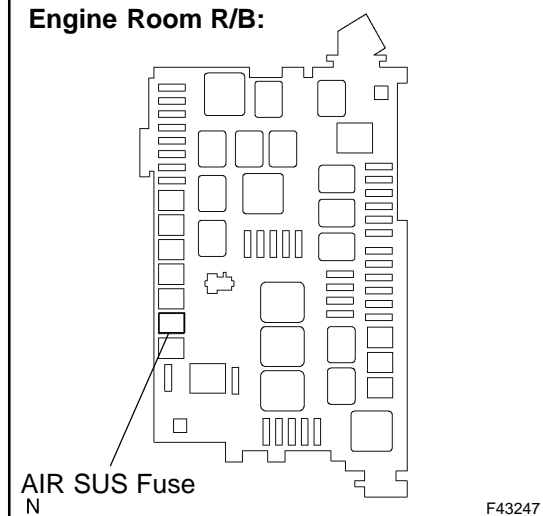
- (a) Check for open and short circuit in the harness and the connector between the AIR SUS relay and the body ground (See page [01-35](#) ).

**NG****REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

**CHECK AND REPLACE IF THE SAME CODE IS STILL OUTPUT AFTER THE DTC IS DELETED, CHECK THE CONTACT CONDITION OF EACH CONNECTION**

## 6 INSPECT FUSE(AIR SUS FUSE OF ENGINE ROOM R/B)

### Engine Room R/B:



- (a) Remove the AIR SUS fuse from the engine room R/B.
- (b) Check continuity of the AIR SUS fuse.

**Standard:**

**Continuity**

**OK**

**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**NG**

**REPLACE FUSE**