

<b>DTC</b>	<b>42</b>	<b>Height Control Compressor Motor Circuit</b>
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## CIRCUIT DESCRIPTION

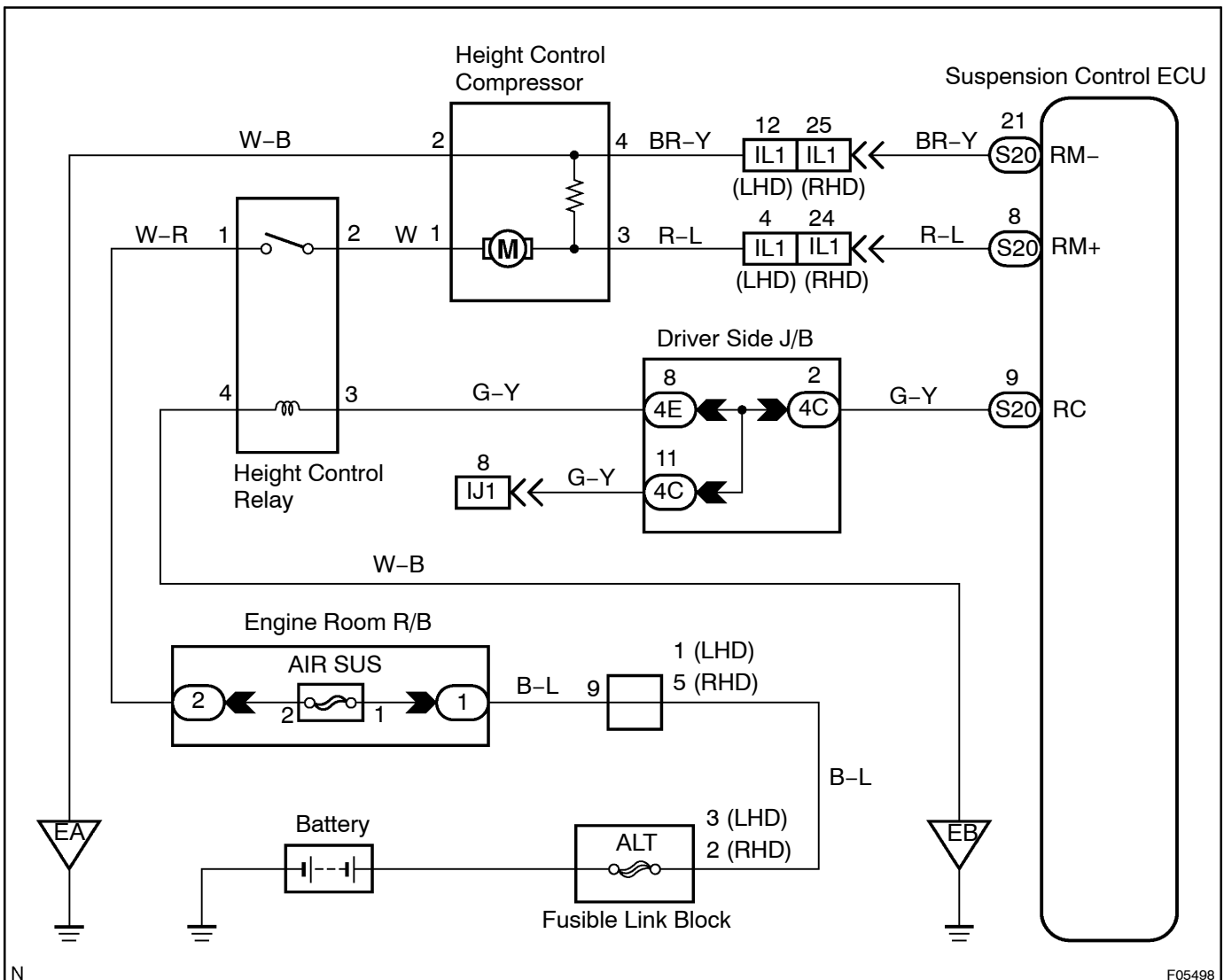
During raising vehicle height, a signal is sent from terminal RC of the ECU to switch the height control relay ON. As a result, the relay contacts close and the compressor motor turns, producing compressed air. At this time also, the ECU senses the amount of current flow to the compressor motor by means of the differences in potential at the terminals RM+ and RM- of the ECU. In this way, the ECU monitors the compressor circuit for abnormalities.

DTC No.	DTC Detecting Condition	Trouble Area
42	With the height control relay activated, a lock, open or short signal of height control compressor motor is detected for 0.2 sec. or more.	<ul style="list-style-type: none"> <li>• Height control compressor</li> <li>• Height control compressor circuit</li> <li>• Suspension control ECU</li> </ul>

When the ECU stores DTC 42 in memory, vehicle height control is not carried out.

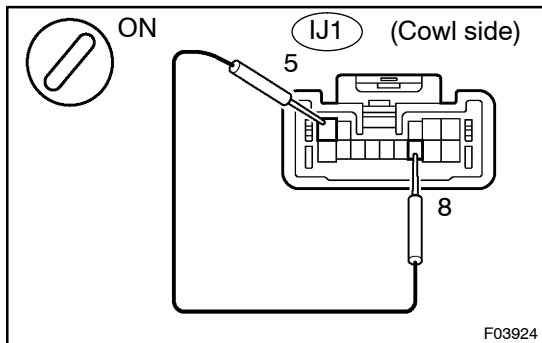
In this case, approximately 70 minutes after the ignition switch is turned on, when the normal signal is input to the ECU from the compressor motor, control is resumed again.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

- |   |  |
|---|--|
| 1 | <b>Does height control compressor motor operate when terminals of height control connector are connected?*</b> |
|---|--|

**PREPARATION:**

- (a) Remove the driver side scuff plate and pull out the floor carpet.
- (b) Disconnect the IJ1 connector.

**CHECK:**

- (a) Turn the ignition switch ON.
- (b) Connect terminals 5 and 8 of IJ1 connector.

**OK:**

**Compressor motor operates.**

**NOTICE:**

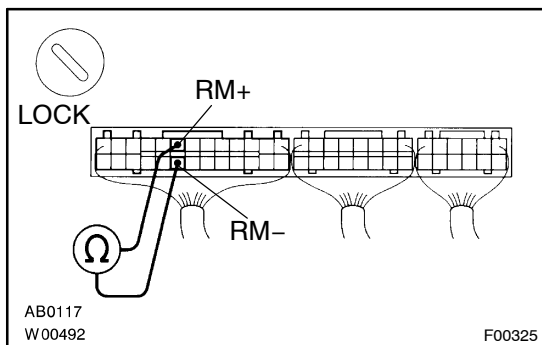
**Connect terminals 5 and 8 of the IJ1 connector for no longer than 15 seconds.**

**NG**

**Go to step 4.**

**OK**

**2 Check continuity between terminals RM+ and RM- of suspension control ECU connector.**



**PREPARATION:**

- (a) LHD:  
Remove the RH scuff plate, instrument panel under cover No. 2, glove compartment and CD changer (See page BO-96).
- (b) RHD:  
Remove the RH scuff plate, instrument panel under cover No. 1, instrument panel lower pad and heater to register duct No. 2 (See page BO-96).

**CHECK:**

Check continuity between terminals RM+ and RM- of suspension ECU connector.

**OK:**

**Continuity**

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-79).<sup>\*2</sup>

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\*1: When the compressor motor is actuated directly with the height control connector, the ECU stores DTC 41 in memory.

\*2: However, when DTC 42 is displayed, check and replace suspension control ECU.

**3 Check for open and short circuit in harness and connector between suspension control ECU and height control compressor (See page IN-30).**

NG

Repair or replace harness or connector.

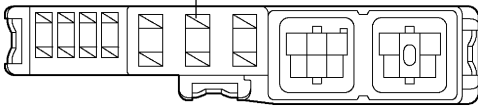
OK

Replace height control compressor.

**4 Check AIR SUS fuse (engine room R/B).**

Engine Room R/B:

AIR SUS Fuse



N

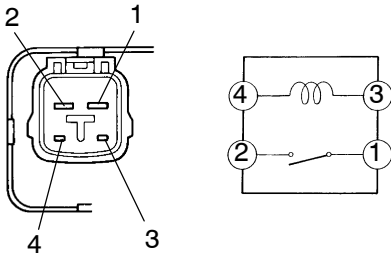
F07626

**PREPARATION:**

Remove AIR SUS fuse from engine room R/B.

**CHECK:**

Check continuity of AIR SUS fuse.

**OK:****Continuity****NG****Replace AIR SUS fuse.****OK****5 Check height control relay.**

I03513

**PREPARATION:**

- Remove the air cleaner assembly.
- Disconnect the connector from the height control relay.
- Remove the height control relay.

**CHECK:**

Check continuity between terminals of height control relay shown below.

**OK:**

Terminal 1 and 2	Open
Terminal 3 and 4	Continuity

**CHECK:**

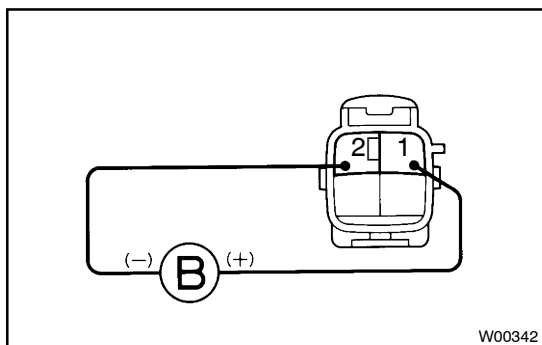
- Apply battery voltage between terminals 3 and 4 of the height control relay.
- Check continuity between terminals 1 and 2 of the height control relay.

**OK:**

Terminal 1 and 2	Continuity
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**NG****Replace height control relay.****OK**

## 6 Check height control compressor motor.



### PREPARATION:

- Remove the RH front wheel and front fender liner.
- Disconnect the height control compressor motor connector.

### CHECK:

Apply battery voltage between terminals 1 and 2 of the height control motor.

### OK:

Compressor motor operates.

NG

Replace height control compressor.

OK

## 7 Check for open circuit in harness and connector between battery and relay, relay and compressor, compressor and body ground (See page IN-30).

NG

Repair or replace harness or connector.

OK

Check and replace suspension control ECU.