

DTC	42	Compressor Motor Circuit
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CIRCUIT DESCRIPTION

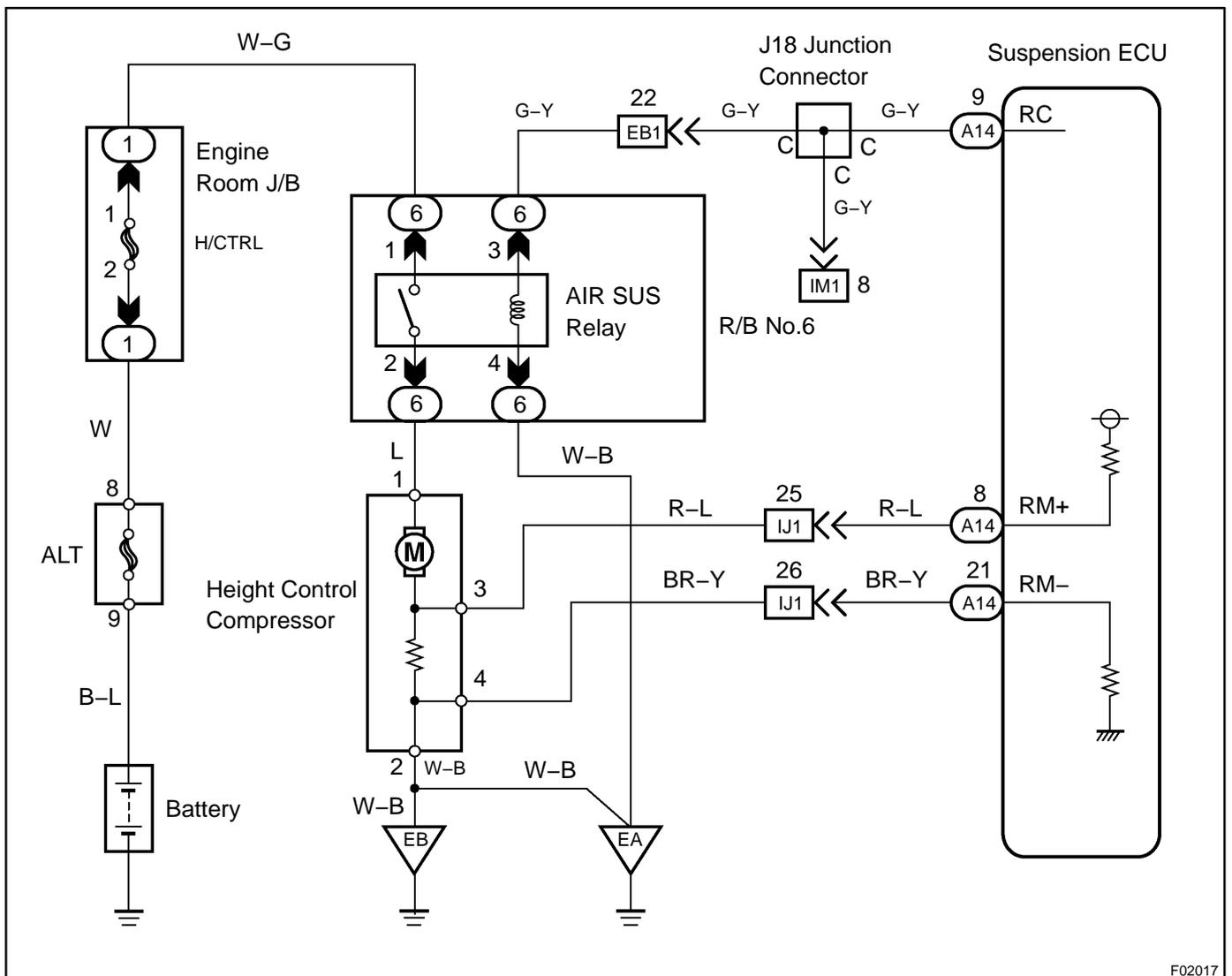
During raising of the vehicle height, a signal is sent from terminal RC of the ECU to switch the AIR SUS relay on. As a result, the relay contacts close and the compressor motor turns, producing compressed air. At this time also, the ECU senses the amount of current flow to the compressor motor by means 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	The potential differences at the terminal RM+ and RM- exceeds a predetermined value when the RC terminals is on.	<ul style="list-style-type: none"> • Harness or connectors between ECU and compressor motor • Compressor motor • ECU

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

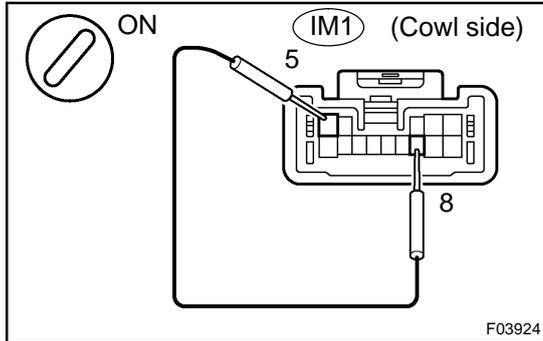
In this case, approximately 70 minutes after the ignition switch is turned on, when the normal signal is input to the ECU from the compressor motor, control resumed again.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Does compressor motor operate when terminals of height control connector are connected?*1



PREPARATION:

- (a) Remove the instrument panel box assembly, scuff plate and floor carpet (See page [BO-83](#)).
- (b) Disconnect the IM1 connector.
- (c) Turn the ignition switch ON.

CHECK:

Connect terminals 5 and 8 of IM1 connector.

OK:

Compressor motor operates.

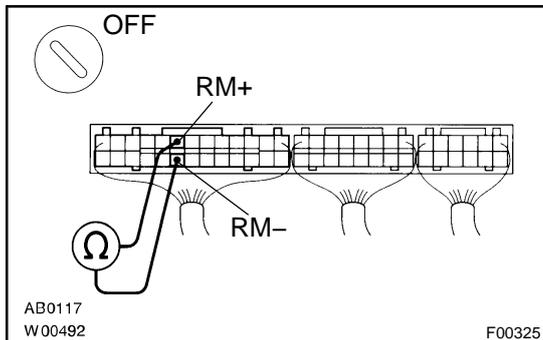
NOTICE:

Connect terminals 5 and 8 of the IM1 connector for no longer than 15 seconds.

NO → Go to step 4.

YES

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



PREPARATION:

- (a) Remove the instrument panel box assembly (See page [BO-83](#)).
- (b) Disconnect the suspension ECU connector.

CHECK:

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

OK:

Continuity

ON → Proceed to next circuit inspection shown on problem symptoms table (See page [DI-247](#)).*2

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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 ECU.

3 Check harness and connectors between suspension ECU and compressor (See page IN-30).

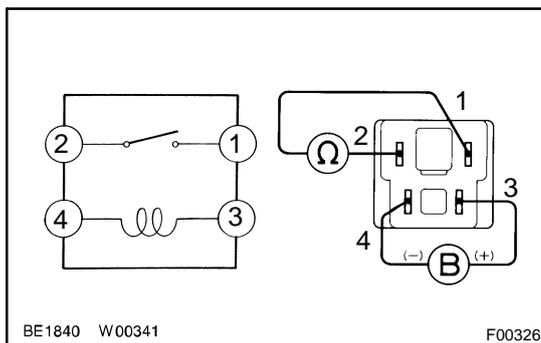
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Repair or replace harness or connector.

OK

Replace compressor.

4 Check AIR SUS relay.



PREPARATION:

- Remove the LH headlight (See page BO-6).
- Remove the AIR SUS relay.

CHECK:

Check continuity between terminals of AIR SUS relay shown below.

OK:

Terminal 1 and 2	Open
Terminal 3 and 4	Continuity

CHECK:

- Apply battery positive voltage between terminals 3 and 4.
- Check continuity between terminals 1 and 2.

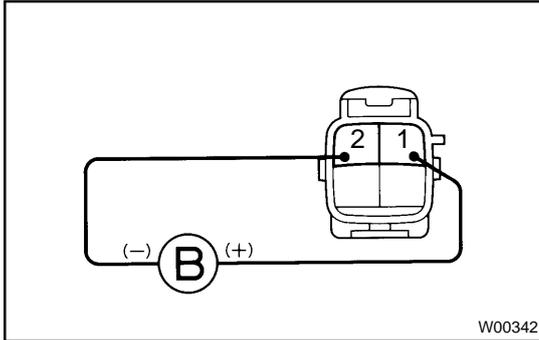
OK:

Terminal 1 and 2	Continuity
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Replace AIR SUS relay.

OK

5 Check compressor motor.

PREPARATION:

- (a) Remove the front RH fender liner.
- (b) Disconnect the compressor motor connector.

CHECK:

Apply battery positive voltage between terminals 1 and 2.

OK:

Compressor motor operates.

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Replace compressor.
OK

Check and repair harness and connectors between battery and relay, relay and compressor, compressor motor and body ground.