DI8D4–01

| DTC	C1742 / 42	Height Control Compressor Circuit

CIRCUIT DESCRIPTION

While the vehicle height is raised, 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, 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
C1742 / 42	With the height control relay activated, a lock, open or short signal of height control compressor motor is detected for 4 sec. or more.	• Height control compressor • Height control compressor circuit • Suspension control ECU

Once the ECU stores DTC C1742 / 42 in memory, the vehicle height control is not carried out until the normal signal is input to the ECU from the compressor motor.
The control is resumed, however, approx. 70 min. after the ignition switch is turned on.
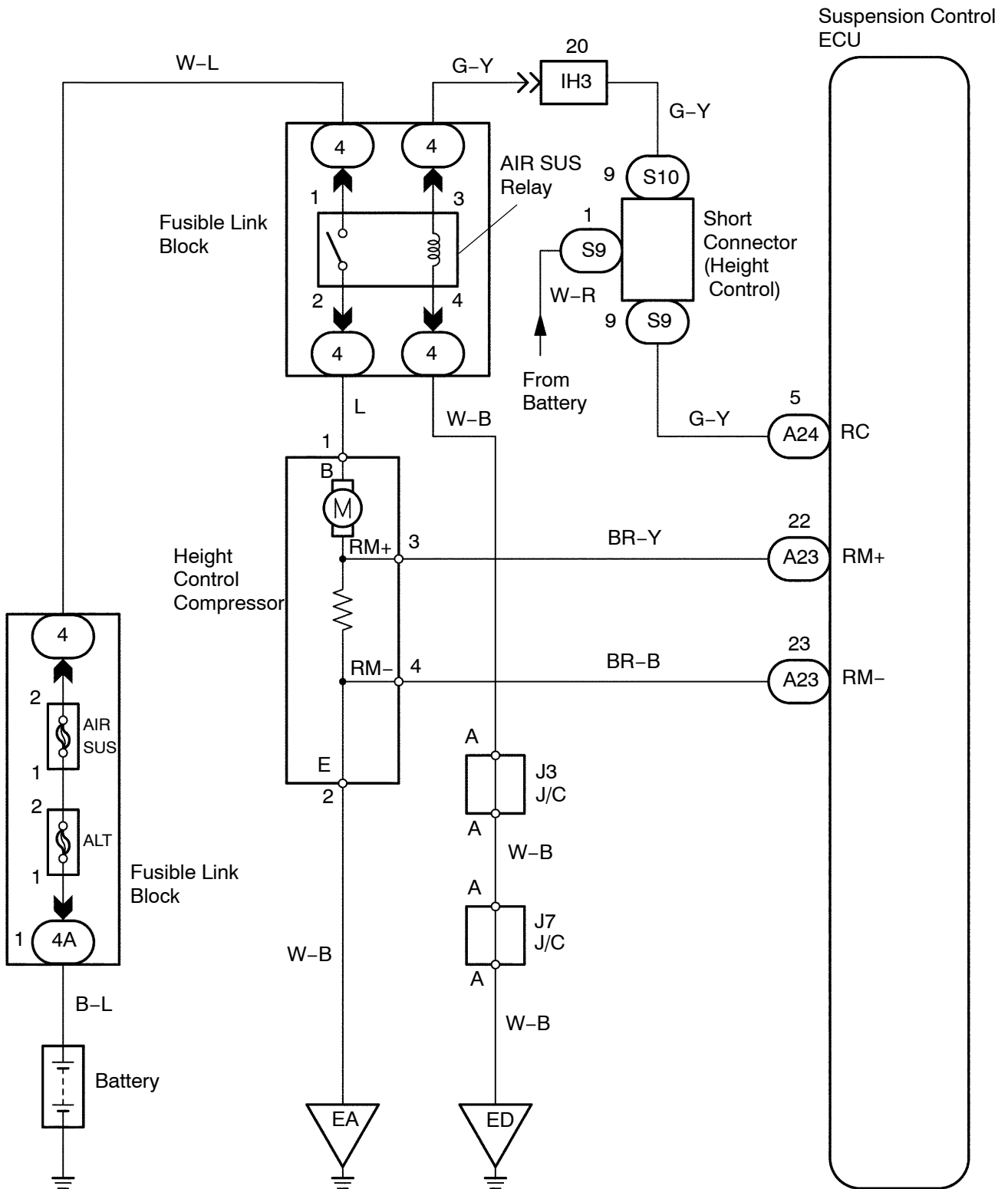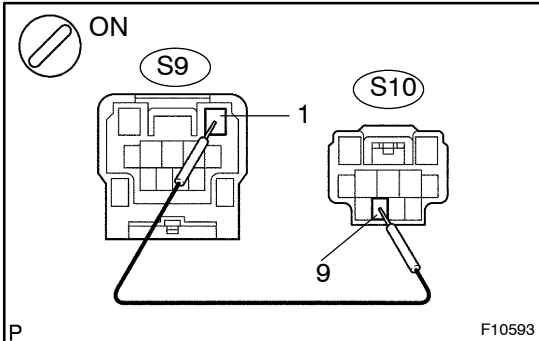
WIRING DIAGRAM

LHD:

Suspension Control ECU
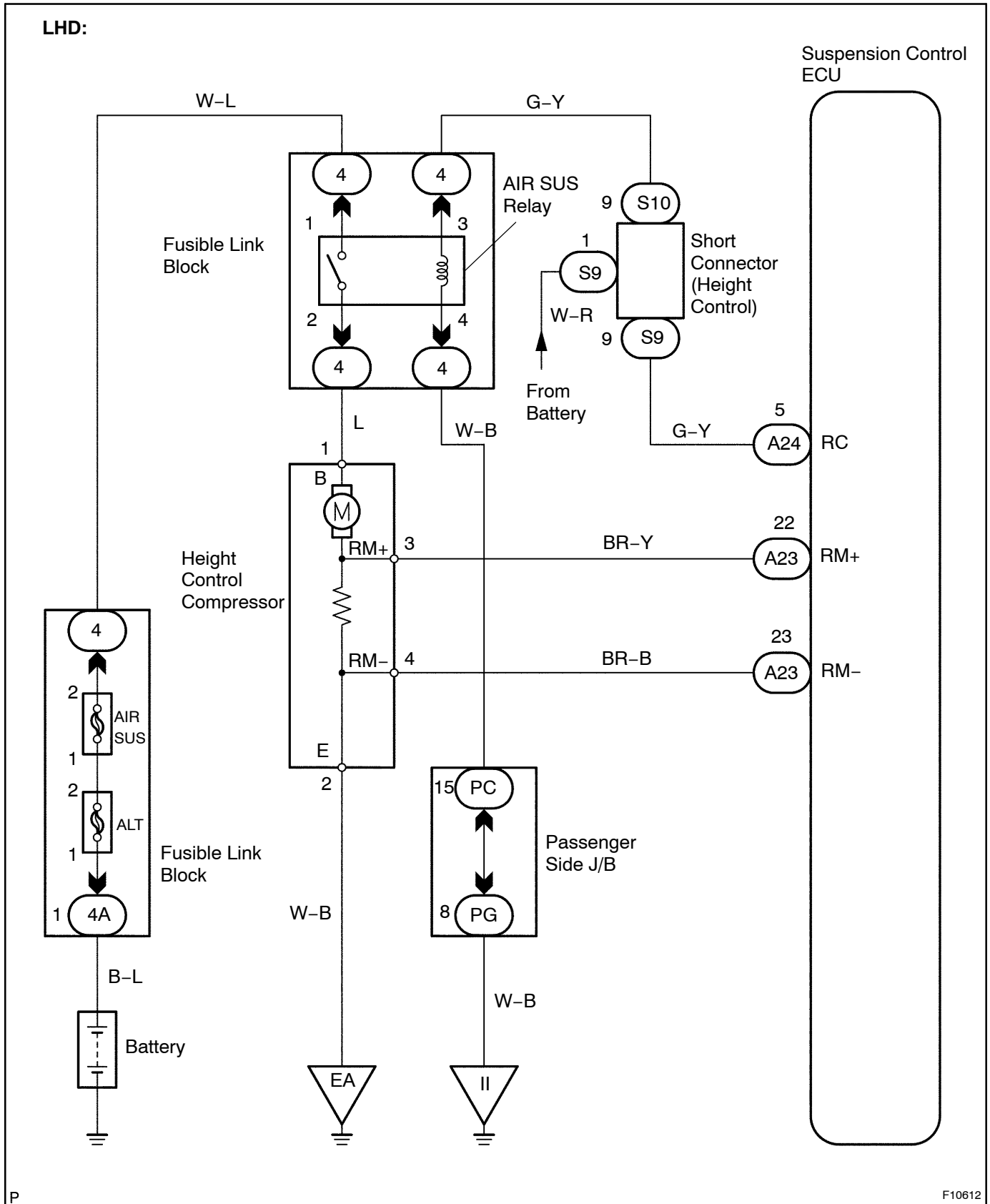
F10612

RHD:

INSPECTION PROCEDURE

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

PREPARATION:
(a) Remove the passenger side scuff plate and pull out the floor carpet.
(b) Disconnect the S10 short connector from S9 short connector.

CHECK:
(a) Turn the ignition switch ON.
(b) Connect terminals 1 of S9 and 9 of S10 short connector.

OK:

Compressor motor operates.

NOTICE:
Connect terminals 1 of S9 and 9 of S10 short connector for no longer than 5 seconds.

NG	Go to step 4.

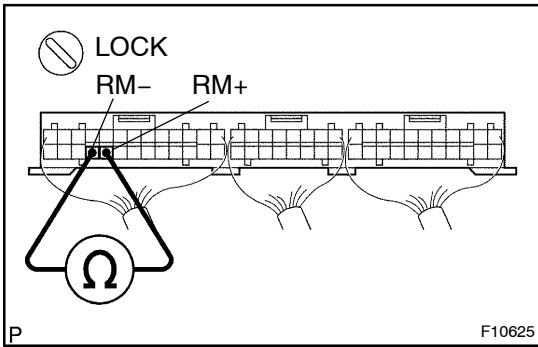**OK**

*[1]: When the compressor motor is actuated directly with the height control connector, the ECU stores DTC C1741 / 41 in memory.

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

PREPARATION:
Remove the suspension control ECU with the connectors still connected.
CHECK:
Check continuity between terminals RM+ and RM– of the suspension ECU connector.
OK:
    Continuity

OK	Proceed to next circuit inspection shown on problem symptoms table (See page DI–263).*²

NG

*²: When DTC C1742 / 42 is displayed, however check and replace the suspension control ECU.

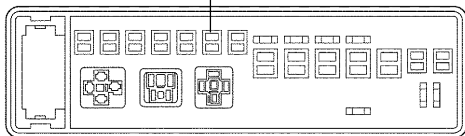| 3	Check for open and short circuit in harness and connector between suspension control ECU and height control compressor (See page IN–35).

NG	Repair or replace harness or connector.

OK

Replace height control compressor.

4	Check AIR SUS fuse (fusible link block).

Fusible Link Block:

AIR SUS Fuse

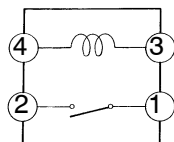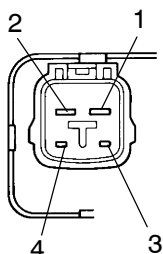P   F10585

PREPARATION:
Remove AIR SUS fuse from the fusible link block.
CHECK:
Check continuity of the AIR SUS fuse.
OK:
>   **Continuity**

NG ⟩ **Replace AIR SUS fuse.**

OK

5	Check AIR SUS relay (fusible link block).

I03513

PREPARATION:
Remove the AIR SUS relay from the fusible link block.
CHECK:
Check continuity between the terminals of the AIR SUS relay shown below.
OK:

Terminal 1 and 2	Open
Terminal 3 and 4	Continuity

CHECK:
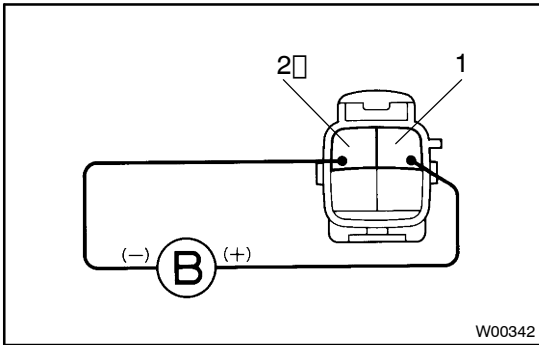(a) Apply battery voltage between terminals 3 and 4 of the AIR SUS relay.
(b) Check continuity between terminals 1 and 2 of the AIR SUS relay.
OK:

Terminal 1 and 2	Continuity

NG ⟩ **Replace AIR SUS relay.**

OK

6	Check height control compressor motor.

W00342

PREPARATION:
(a) Remove the RH front wheel and front fender liner.
(b) 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−35).

NG ⟩	Repair or replace harness or connector.

OK

Check and replace suspension control ECU.