DTC	C1751	CONTINUOUS ELECTRIC CURRENT TO HEIGHT CONTROL COMPRESSOR

DTC	C1752	CONTINUOUS ELECTRIC CURRENT TO EXHAUST SOLENOID VALVE

CIRCUIT DESCRIPTION

The signal from the suspension control ECU operates the AIR SUS relay and the height control compressor motor starts.

The height control compressor motor assy operates until the targeted vehicle height is reached. Then the height control sensor sub–assy sends the signal to the suspension control ECU, and stops the height control compressor motor.

DTC No.	DTC Detecting Condition	Trouble Area
C1751	DTC is output when the ECU detects flow of electricity 8 minutes or more.	• Height control compressor motor • Height control compressor circuit • Height control sensor link sub–assy • Height control sensor sub–assy • Relief valve • AIR SUS relay comes off • Air leakage from the air tube or each valve • Clogging in the air tube or each valve • Suspension control ECU
C1752	With the exhaust valve activated, the vehicle does not go down to the standard vehicle height after 6 minutes have elapsed.	• Height control sensor link sub–assy • Height control sensor sub–assy • Clogging in the air tube or each valve • Suspension control ECU

INSPECTION PROCEDURE

1	CHECK HEIGHT CONTROL COMPRESSOR CIRCUIT (SEE PAGE 05–299)

2	CHECK AIR LEAKAGE (SEE PAGE 25–4)

OK:
No leaks

NG	REPAIR OR REPLACE AIR TUBE

OK

3	INSPECT HEIGHT CONTROL SOLENOID VALVE

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the ACTIVE TEST and operate it with the intelligent tester II.

AIRSUS:

Item	Vehicle Condition / Test Details	Diagnostic Note
FR SOL	Turn OFF right front solenoid valve one second after turning it ON	Operation of solenoid (clicking sound) can be heard
FL SOL	Turn OFF left front solenoid valve one second after turning it ON	Operation of solenoid (clicking sound) can be heard
RR SOL	Turn OFF right rear solenoid valve one second after turning it ON	Operation of solenoid (clicking sound) can be heard
RL SOL	Turn OFF left rear solenoid valve one second after turning it ON	Operation of solenoid (clicking sound) can be heard

(d) Check the operation sound of the height control solenoid valve when the solenoid is turned on through the ACTIVE TEST.

OK:
An operation sound is heard 1 second after the height control solenoid valve is turned on.

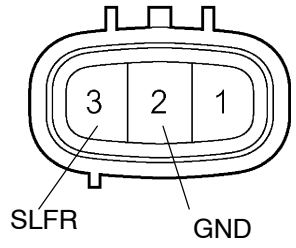
NG	Go to step 4

OK

Go to step 6

4	INSPECT HEIGHT CONTROL SOLENOID VALVE

Height Control Solenoid Valve Front RH:



HEIGHT CONTROL SOLENOID VALVE FRONT RH:

(a) Disconnect the height control solenoid valve connector.
(b) Connect terminal 3 (SLFR) to the battery positive (+) terminal, and terminal 2 (GND) to the battery negative (–) terminal.
(c) Check the operating sound of the height control solenoid valve.

OK:

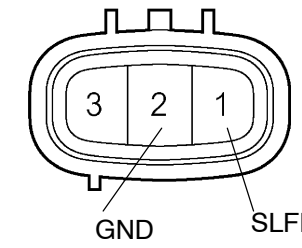
It should make an operating sound (click).

Result:

OK	A
NG	B

HINT:
When a malfunction is found in the front solenoid valve, replace the height control valve sub–assy No.1.

Height Control Solenoid Valve Front LH:



HEIGHT CONTROL SOLENOID VALVE FRONT LH:

(a) Disconnect the height control solenoid valve connector.
(b) Connect terminal 1 (SLFL) to the battery positive (+) terminal, and terminal 2 (GND) to the battery negative (–) terminal.
(c) Check the operating sound of the height control solenoid valve.

OK:

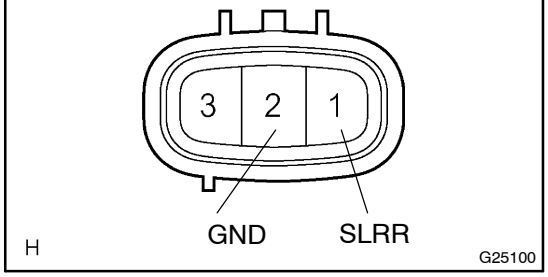
It should make an operating sound (click).

Result:

OK	A
NG	B

HINT:
When a malfunction is found in the front solenoid valve, replace the height control valve sub–assy No.1.

Height Control Solenoid Valve Rear RH:



HEIGHT CONTROL SOLENOID VALVE REAR RH:

(a) Disconnect the height control solenoid valve connector.

(b) Connect terminal 1 (SLRR) to the battery positive (+) terminal, and terminal 2 (GND) to the battery negative (–) terminal.

(c) Check the operating sound of the height control solenoid valve.

OK:

It should make an operating sound (click).

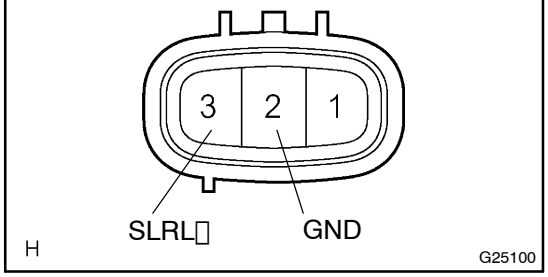
Result:

OK	A
NG	C

HINT:

When a malfunction is found in the rear solenoid valve, replace the height control valve sub–assy No.2.

Height Control Solenoid Valve Rear LH:



HEIGHT CONTROL SOLENOID VALVE REAR LH:

(a) Disconnect the height control solenoid valve connector.

(b) Connect terminal 3 (SLRL) to the battery positive (+) terminal, and terminal 2 (GND) to the battery negative (–) terminal.

(c) Check the operating sound of the height control solenoid valve.

OK:

It should make an operating sound (click).

Result:

OK	A
NG	C

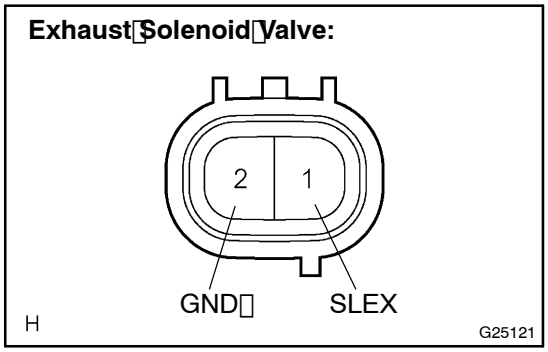
HINT:

When a malfunction is found in the rear solenoid valve, replace the height control valve sub–assy No.2.

B	**REPLACE HEIGHT CONTROL VALVE SUB–ASSY NO.1 (SEE PAGE 25–17)**
C	**REPLACE HEIGHT CONTROL VALVE SUB–ASSY NO.2 (SEE PAGE 25–19)**

A

5	INSPECT EXHAUST SOLENOID VALVE



(a) Disconnect the exhaust solenoid valve connector.
(b) Connect terminal 1 (SLEX) to the battery positive (+) terminal, and terminal 2 (GND) to the battery negative (–) terminal.
(c) Check the operating sound of the exhaust solenoid valve.
OK:
It should make an operating sound (click).

HINT:
When a malfunction is found in the exhaust solenoid valve, replace the height control compressor assy.

NG → **REPLACE HEIGHT CONTROL COMPRESSOR ASSY (SEE PAGE 25–9)**

OK

6	INSPECT HEIGHT CONTROL SENSOR LINK SUB–ASSY

(a) Inspect and adjust the height control sensor link sub–assy (see page 25–4).

NG → **REPLACE HEIGHT CONTROL SENSOR LINK SUB–ASSY**

OK

CHECK AND REPAIR OR REPLACE PARTS

- Air tube is clogged (see page 25–4).
- Compressor is faulty (see page 25–9).
- Height control sensor sub–assy is faulty (see page 25–12, 25–15).
- Foreign material in the height control solenoid valve and/or exhaust solenoid valve (see page 25–17, 25–19, 25–9).
- Suspension control ECU malfunction (see page 25–20).