DTC	C1751/51	CONTINUOUS ELECTRIC CURRENT TO HEIGHT CONTROL COMPRESSOR

CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1751/51*1	With the AIR SUS relay activated, the vehicle does not go up to the standard vehicle height after the 100 sec. elapsed.	• Height control compressor assy • Height control compressor circuit • Height control sensor link sub–assy rear • Height control sensor sub–assy rear • 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

*1: Since the relief pressure of the compressed air is 980 kPa (10 kgf/cm^2, 142 psi), if the vehicle height control is attempted on a steeply sloping road, when the vehicle is overloaded, or when the vehicle is jacked up with the engine running, the compressor motor operates continuously to raise vehicle height, and causes electric current to flow to the AIR SUS relay for 100 sec. or longer.
Thus DTC C1751/51 may be output and vehicle height control may be suspended (This is not abnormal.). In this case, however, the vehicle height operation is resumed approx. 10 min. after the ignition switch is turned ON after the ECU detects the first error. If ECU detects another error, it takes 70 minutes until the control to be resumed.

INSPECTION PROCEDURE

1	INSPECT HEIGHT CONTROL COMPRESSOR CIRCUIT (See page 05–622)

2	INSPECT AIR LEAKAGE (See page 25–3)

NG → REPAIR OR REPLACE AIR TUBE

OK

3 INSPECT HEIGHT CONTROL SOLENOID VALVE OR EXHAUST SOLENOID VALVE

In the case of not using hand–held tester:

(a) Connect the hand–held tester to DLC3.
(b) Turn the ignition switch to ON, and turn the hand–held tester main switch to ON.
(c) Select the item "LEVEL SOL REAR", "GATE SOL REAR", "LOW PRS TNK SOL" in the ACTIVE TEST, and operate it with the hand–held tester.

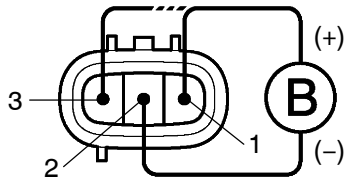
HINT:
Since the exhaust solenoid valve cannot be tested in ACTIVE TEST.

(d) Check whether the solenoid makes sound.
(e) Check whether the height control solenoid valve has a continuity (having vibration).

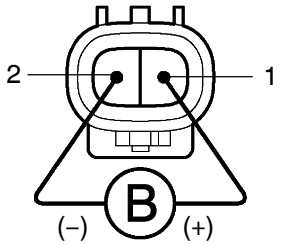
Standard:

The solenoid makes sound, the height control solenoid valve has a continuity (having vibration).

Gate Solenoid Valve:
Leveling Solenoid Valve:



Exhaust Solenoid Valve:
Tank Solenoid Valve:



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In the case of not using hand–held tester:

(a) Disconnect the valve connector.
(b) Check the operating sound of the valves when battery positive voltage is applied to the terminals as shown below.

Solenoid valve	Battery positive	Battery negative
Gate solenoid valve	1	2
Leveling solenoid valve	3	2
Exhaust solenoid valve	1	2
Tank solenoid valve	2	1

Standard:

It make an operating sound (click).

HINT:

- When a malfunction is found on the gate solenoid valve, the leveling valve or the tank solenoid valve, replace the height control reservoir assy.
- When a malfunction is found on the exhaust solenoid valve, replace the height control dryer assy.

NG → **REPLACE HEIGHT CONTROL RESERVOIR ASSY**

NG → **REPLACE HEIGHT CONTROL DRYER ASSY**

OK

4 INSPECT HEIGHT CONTROL SENSOR LINK SUB–ASSY

(a) Inspect and adjust the height control sensor link sub–assy (See page 25–3).

5	RECONFIRM DTC

(a) Clear the DTC and repeat the procedure to re–check it (See page 05–580).

HINT:

If the, DTC C1751/51 is still output, proceed to the next step.

6	CHECK AND REPAIR OR REPLACE PARTS OF MALFUNCTION CAUSES

(a) Air tube clogged
(b) Compressor faulty
(c) Relief valve faulty
(d) Height control sensor sub–assy rear faulty
(e) Foreign material entrance in the height control solenoid valve (gate solenoid valve) and the exhaust solenoid valve
(f) Suspension control ECU malfunction