

DTC	C1735/35	Exhaust Solenoid Valve Circuit
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DESCRIPTION

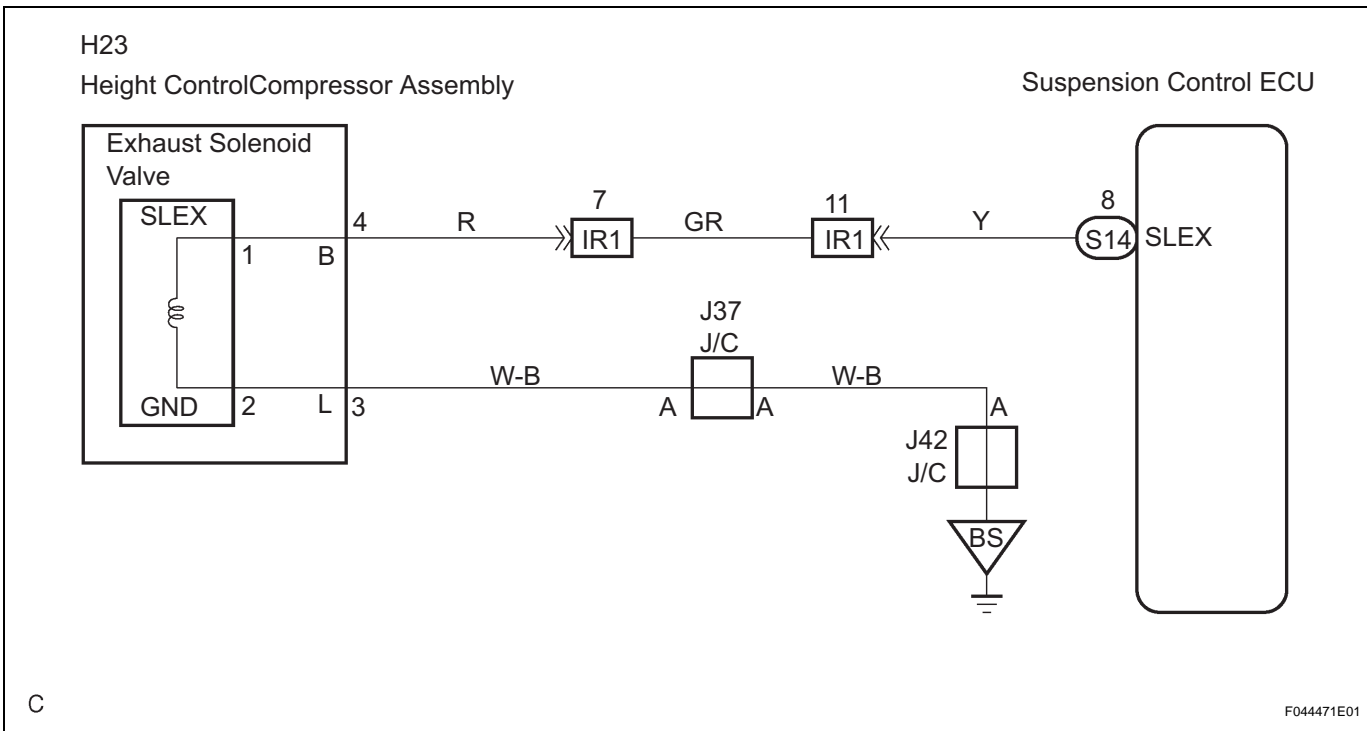
The exhaust solenoid is installed in the height control compressor assembly. It discharges high pressure air from the system by opening the solenoid valve according to the signal from the suspension control ECU. The exhaust solenoid continues its operation for max. 60 seconds after the ignition switch is turned off. This takes place in order to discharge the high pressure air which is produced when the vehicle's height is descended by the auto leveling function and access mode or exhausting high pressure air in the pneumatic tank assembly.

HINT:

Since high pressure air, which is discharged from the exhaust solenoid is reused for removing moisture by a dryer, discharge speed of the high pressure air is limited. In order to increase the speed of descent of the vehicle's height, some amount of high pressure air is discharged to the pneumatic tank assembly. Then, the stored air in the pneumatic tank assembly is discharged from the exhaust solenoid while the vehicle height control is not in operation.

DTC No.	DTC Detecting Condition	Trouble Area
C1735/35	1. With the exhaust solenoid valve inactivated, an open signal of the exhaust solenoid valve is detected for 1 sec. or more. 2. With the exhaust solenoid valve activated, a short signal of the valve is detected 8 times successively.	<ul style="list-style-type: none"> • Exhaust solenoid valve • Exhaust solenoid valve circuit • Suspension control ECU

WIRING DIAGRAM



1	RECONFIRM DTC
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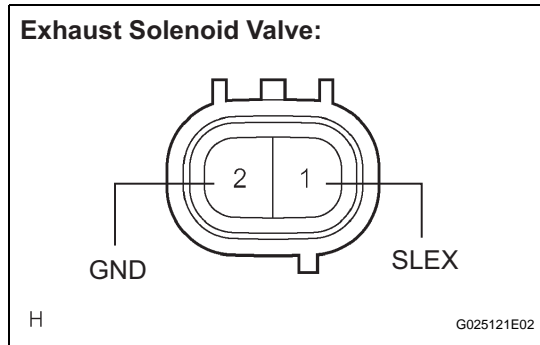
- (a) Check DTCs (See page [SC-28](#)).
- (1) Confirm if the DTC C1761/61 and/or C1774/74 is recorded.

OK:
DTC C1761/61 and/or C1774/74 is not output.

NG **REPAIR CIRCUIT INDICATED BY OUTPUT CODE**

OK

2 INSPECT EXHAUST SOLENOID VALVE



- (a) Disconnect the exhaust solenoid valve connector.
- (b) Measure the resistance according to the values in the table below.

Resistance

Tester Connection	Specified Condition
1 (SLEX) - 2 (GND)	12 +/- 2 Ω

- (c) Check the operating sound of the exhaust solenoid valve when the battery positive voltage is applied to the terminals.

Battery Positive	Battery Negative
1 (SLEX)	2 (GND)

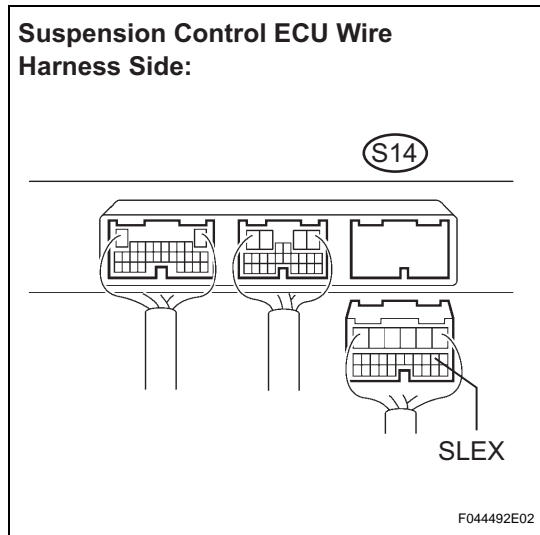
OK:
It should make an operating sound (click).

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

NG **REPLACE HEIGHT CONTROL COMPRESSOR ASSEMBLY**

OK

3 CHECK HARNESS AND CONNECTOR (SUSPENSION CONTROL ECU - EXHAUST SOLENOID VALVE)



- (a) Disconnect the suspension control ECU S14 connector.
- (b) Measure the resistance according to the values in the table below.

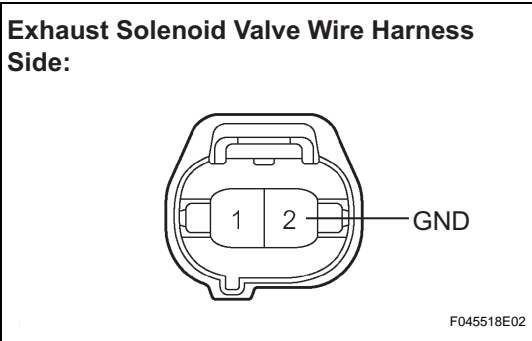
Resistance

Tester Connection	Specified Condition
S14-8 (SLEX) - 1 (SLEX)	Below 1 Ω
S14-8 (SLEX) - Body ground	10 kΩ or higher

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4 CHECK HARNESS AND CONNECTOR (EXHAUST SOLENOID VALVE - BODY GROUND)



(a) Measure the resistance according to the values in the table below.

Resistance

Tester Connection	Specified Condition
(GND) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE SUSPENSION CONTROL ECU