DI3GM–05

DTC	C 1741 / 41	AHC Motor Relay Circuit

CIRCUIT DESCRIPTION

This relay is to supply power source to the pump & motor. The relay is stays ON while the height control is operated.

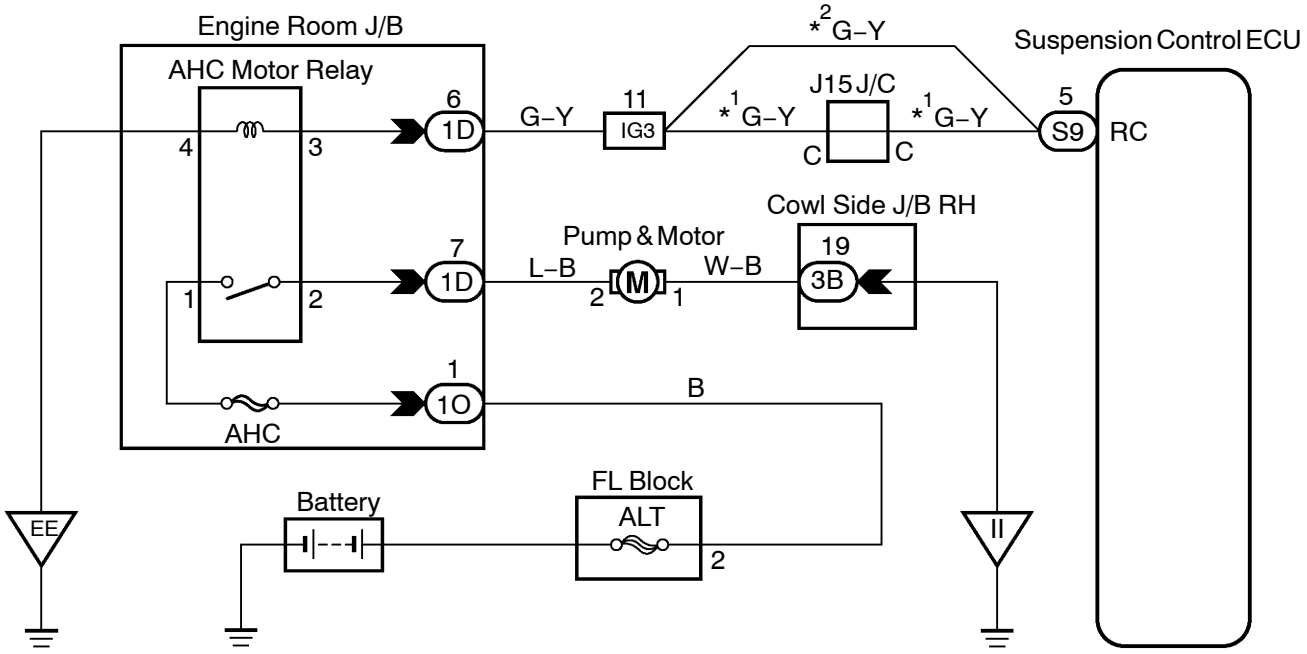
DTC No.	DTC Detecting Condition	Trouble Area
C1741 / 41	After the condition that the upper reaches voltage of the motor relay solenoid is 2 V or less when motor relay is ON continued for 40 ± 10 msec. and when turning on the electricity 1 sec. later and detecting the short circuit condition 2 times continuously.	• AHC motor relay • AHC motor relay circuit • Suspension control ECU

Fail safe function:

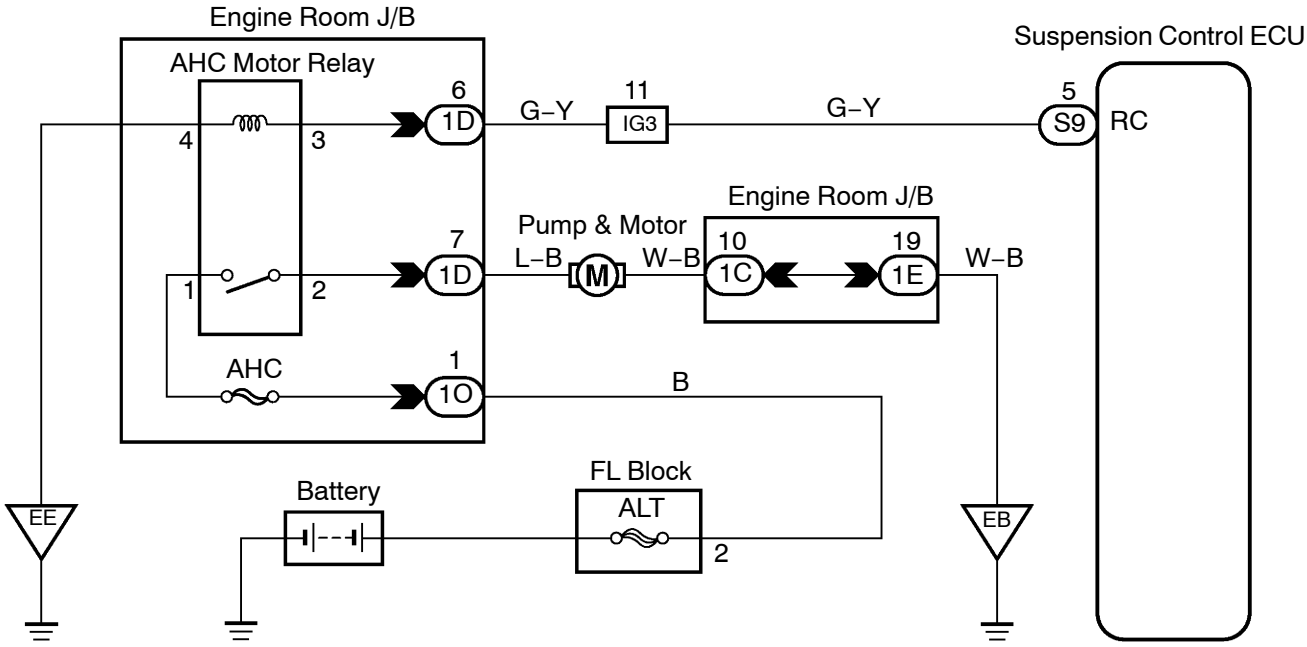
If trouble occurs in the AHC motor relay circuit, the height control is prohibited after adjusting the vehicle to the standard height in case that the height is higher than the standard or to the lowest wheel of the 4 wheels in case that the height is lower than the standard.

WIRING DIAGRAM

LHD



RHD



*1: 2UZ –FE Engine
*2: 1HD–FTE and 1HD–T Engine

F05855

INSPECTION PROCEDURE

1	**Check AHC motor relay operation.**

IN CASE OF USING HAND –HELD TESTER:

PREPARATION:

(a) Connect the hand –held tester to the DLC3.

(b) Start the engine and push the hand –held tester main switch ON.

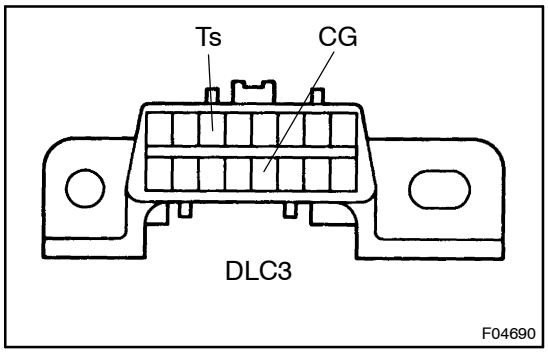
(c) Select the ACTIVE TEST mode on the hand –held tester.

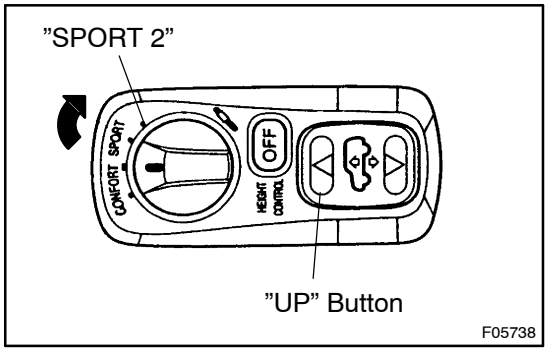
CHECK:

Check the operation sound of the AHC motor relay when operating it with the hand –held tester.

OK:

The operation sound of the AHC motor relay should be heard.





NG

IN CASE OF NOT USING HAND –HELD TESTER:

PREPARATION:

(a) Using SST, connect terminals Ts and CG of DLC3.
SST 09843 –18040

(b) Push the "DOWN" button of the height select switch 5 times or more within 5 seconds after starting the engine.

HINT:

At this time the height control OFF indicator light flashes at 0.25 second intervals.

CHECK:

(a) Change the damping mode select switch to the "SPORT 2" position.

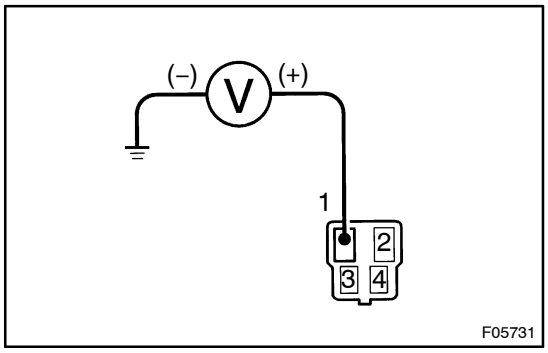
(b) Push the "UP" button of the height select switch, then check the operation sound of the AHC motor relay.

OK:

The operation sound of the AHC motor relay should be heard.

OK	**Go to step 4.**

2	**Check voltage between terminal 1 of Engine Room J/B (for AHC motor relay) and body ground.**

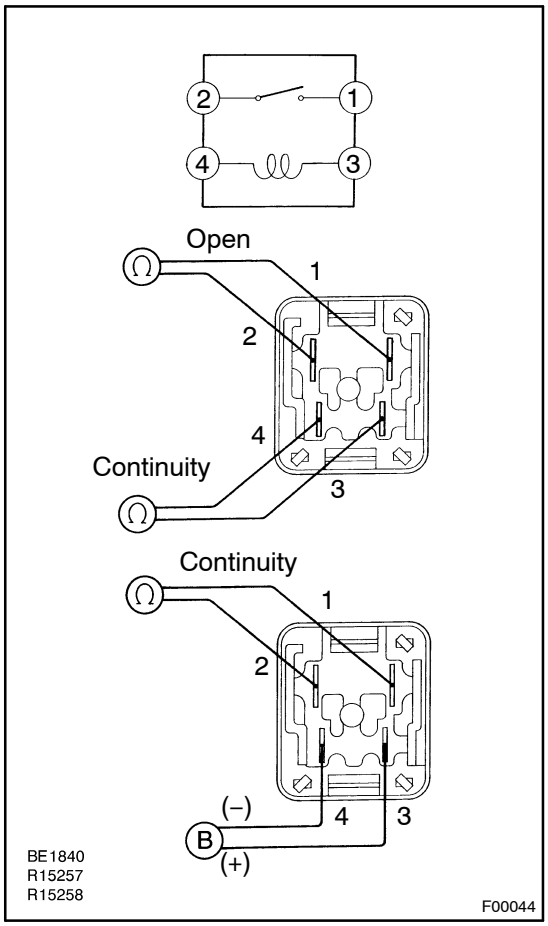


PREPARATION:
Remove the AHC motor relay from Engine Room J/B.
CHECK:
Measure voltage between terminal 1 of Engine Room J/B (for AHC motor relay) and body ground.
OK:
Voltage: 10 – 14 V

NG	**Check and repair harness or connector.**

OK

3	**Check AHC motor relay.**



PREPARATION:
Remove the AHC motor relay from Engine Room J/B.
CHECK:
Check continuity between each pair of terminal of motor relay.
OK:

Terminals 3 and 4	Continuity (Reference value 62 Ω)
Terminals 1 and 2	Open

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

Terminals 1 and 2	Continuity

NG	**Replace AHC motor relay.**

OK

4	**Check for open and short circuit in harness and connector between AHC motor relay and pump & motor, suspension control ECU (See page IN–35).**

NG → **Repair or replace harness or connector.**

OK

Clear the DTC (See page DI–208).