DTC	C1786	HEIGHT CONTROL SWITCH CIRCUIT (TEST DIAGNOSIS)

CIRCUIT DESCRIPTION

The height control switch turns on when it is pressed to the ”HIGH” side and turns off when pressed to the ”NORM” side. The ECU detects the height control switch condition and raises or lowers the vehicle height accordingly.

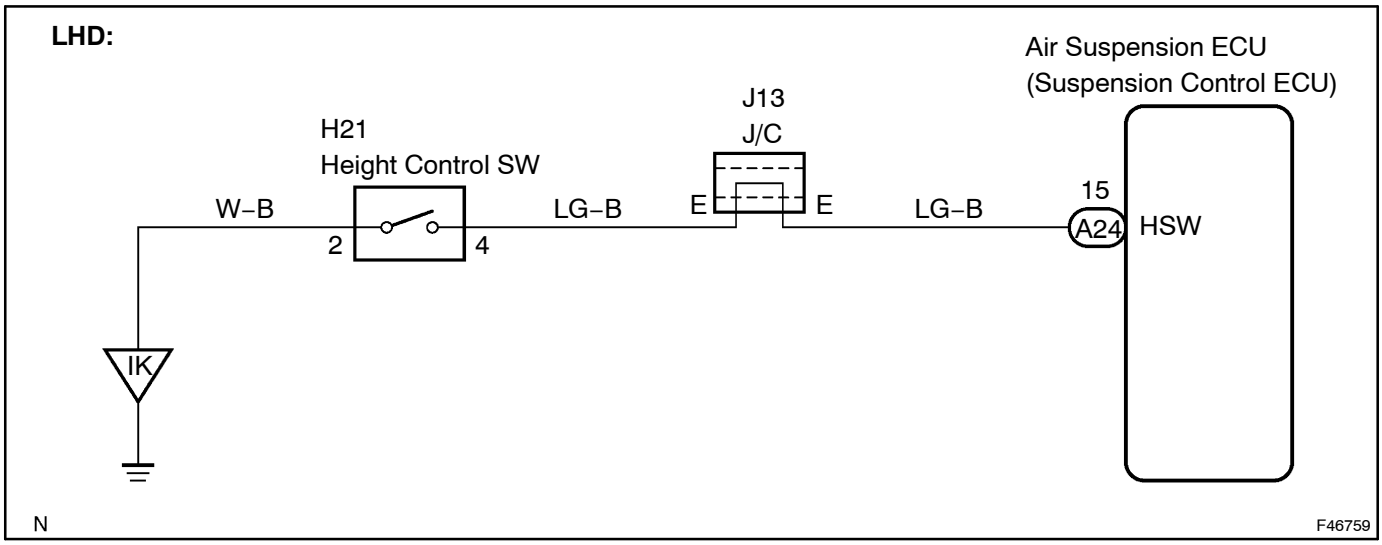
By controlling the height control switch, the vehicle height can be set 30 mm (1.18 in.) higher in ”HIGH” mode.

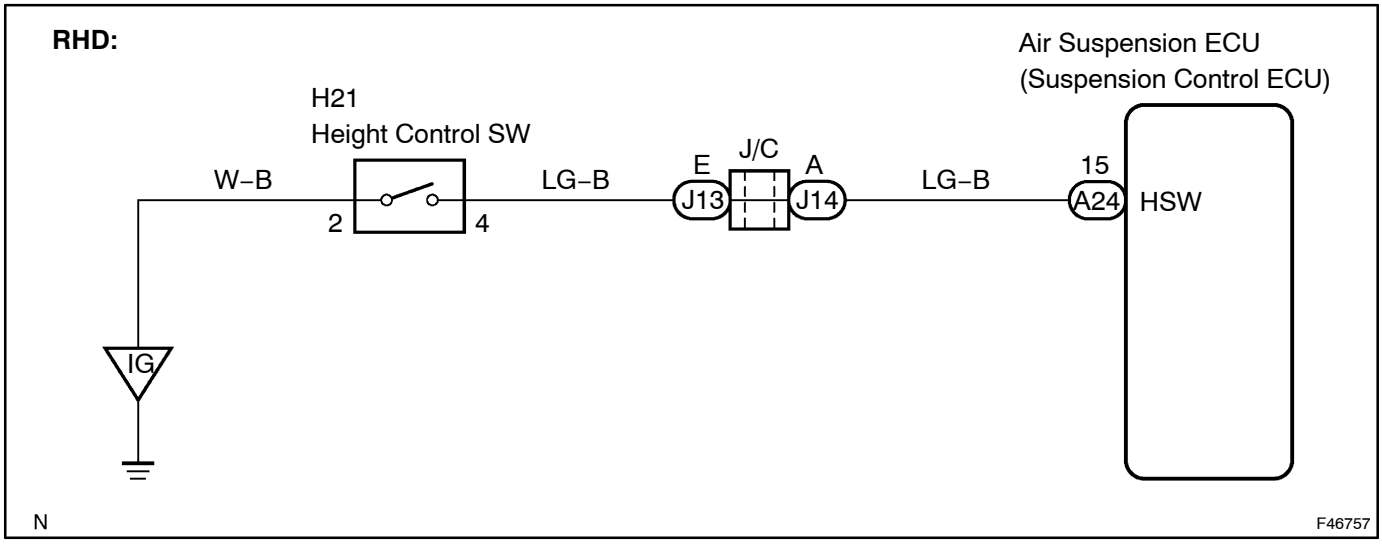
DTC No.	DTC Detecting Condition	Trouble Area
C1786	Height control switch signal does not change.	• Height control switch • Height control switch circuit • Suspension control ECU

HINT:

DTC C1786 is output only in the test mode.

WIRING DIAGRAM





INSPECTION PROCEDURE

1 READ VALUE ON INTELLIGENT TESTER II

(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 DATA LIST and read its value displayed on the intelligent tester II.

AIRSUS:

Item	Normal Condition
HEIGHT SWITCH	ON: Height control switch while pressing "HIGH" OFF: Height control switch while pressing "NORM"

(d) Check that the value displayed on the intelligent tester II changes by pressing the height control switch "HIGH" or "NORM" button.

OK:

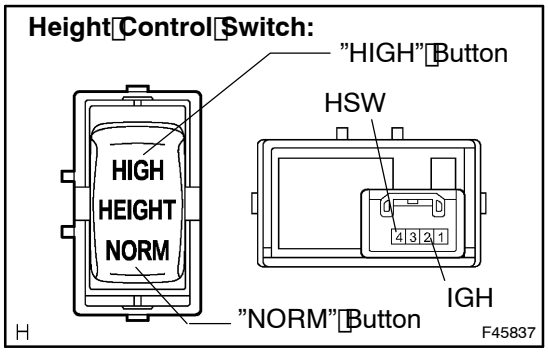
Height control switch value changes.

NG → **Go to step 2**

OK

REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25–20)

2 INSPECT HEIGHT CONTROL SWITCH



(a) Disconnect the height control switch connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

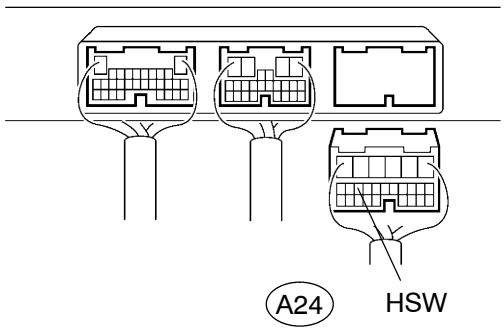
Switch Condition	Tester Connection	Specified Condition
"HIGH"	2 (IGH) – 4 (HSW)	Below 1 Ω
"NORM"	2 (IGH) – 4 (HSW)	10 kΩ or higher

NG → **REPLACE HEIGHT CONTROL SWITCH**

OK

3	CHECK HARNESS AND CONNECTOR(SUSPENSION CONTROL ECU – HEIGHT CONTROL SWITCH) (SEE PAGE 01–44)

Suspension Control ECU:

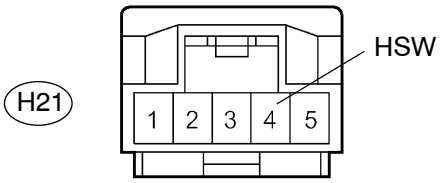


(a) Disconnect the suspension control ECU A24 connector.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
A24–15 (HSW) – H21–4 (HSW)	Below 1 Ω
A24–15 (HSW) – Body ground	10 kΩ or higher

Height Control Switch:

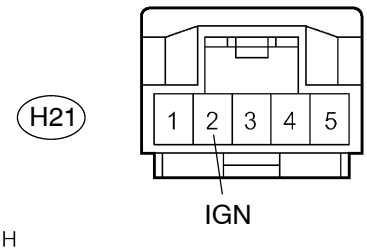


NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4	CHECK HARNESS AND CONNECTOR(HEIGHT CONTROL SWITCH – BODY GROUND) (SEE PAGE 01–44)

Height Control Switch:



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

Standard:

Tester Connection	Specified Condition
H21–2 (IGN) – Body ground	Below 1 Ω

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25–20)