DTC	C1786/86	Height Control Switch Circuit

DESCRIPTION

By controlling the height control switch, the vehicle height can be set 30 mm (1.18 in.) higher in "HI mode" and 15 mm (0.59 in.) lower in "LO mode" than normal vehicle height.
Even though the vehicle is operated in normal mode, the vehicle height is set approx. 7.5 mm (0.295 in.) lower than normal vehicle height while driving at high speed.
HINT:
Driving in the "HI mode" is only possible when the vehicle's speed is less than 30 km/h (19 mph).

DTC No.	Detecting Condition	Trouble Area
C1786/86	Height control switch signal does not change.	• Height control switch • Height control switch circuit • Suspension control ECU

WIRING DIAGRAM

F044480E01
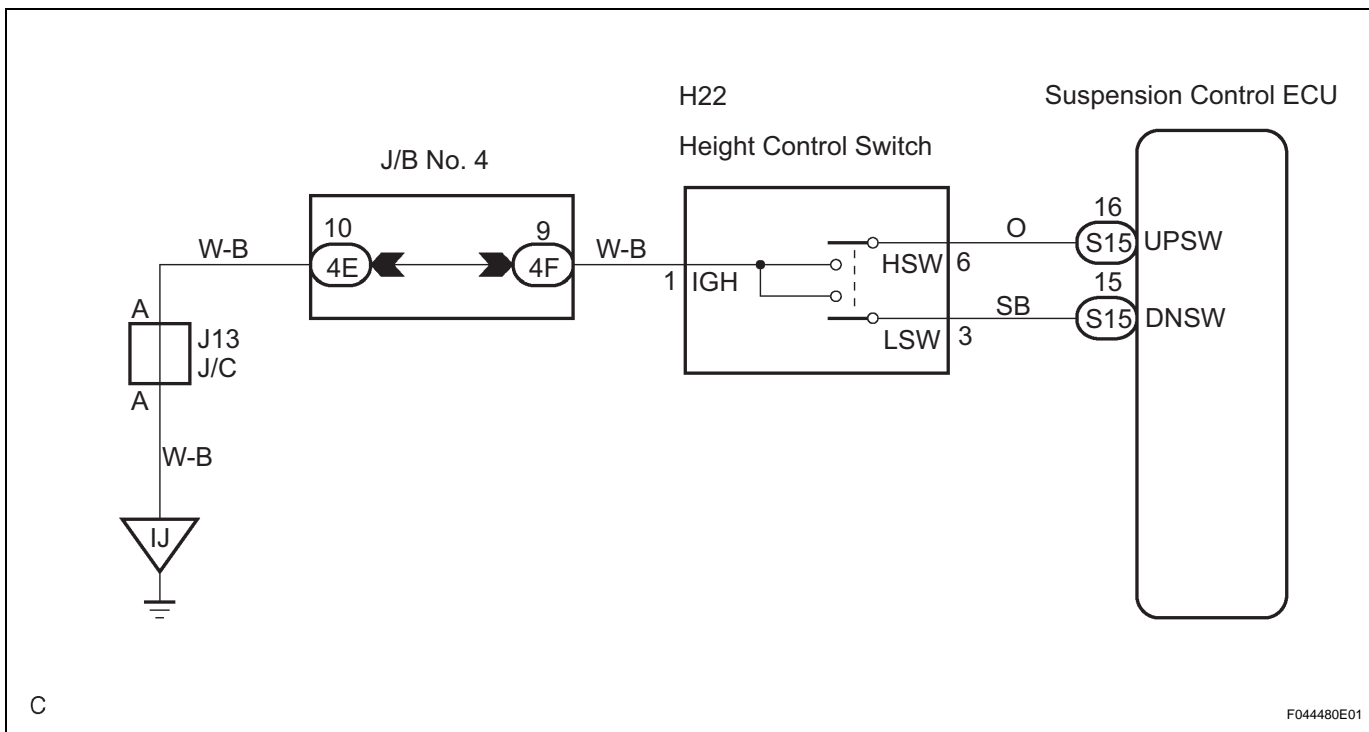
HINT:
Start the inspection from step 1 when using the intelligent tester, and start from step 2 when not using the intelligent tester.

SC

1	READ VALUE OF INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position, and push the intelligent tester main switch on,
(c) Select the item below in the DATA LIST, and read its value displayed on the intelligent tester.

AIRSUS

Item	Normal Condition
HEIGHT SW DOWN	ON: Height control switch while pressing "DOWN" button OFF: Neutral position
HEIGHT SW UP	ON: Height control switch while pressing "UP" button OFF: Neutral position

(d) Check that the value displayed on the intelligent tester changes by pressing the height control switch "UP" or "DOWN".
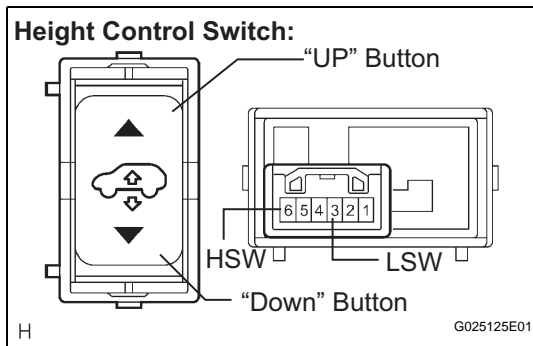
OK:

Height control switch value changes.

NG >	Go to step 2

OK

REPLACE SUSPENSION CONTROL ECU

2	INSPECT HEIGHT CONTROL SWITCH

Height Control Switch:

"UP" Button

HSW   LSW

"Down" Button

H   G025125E01

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

Resistance

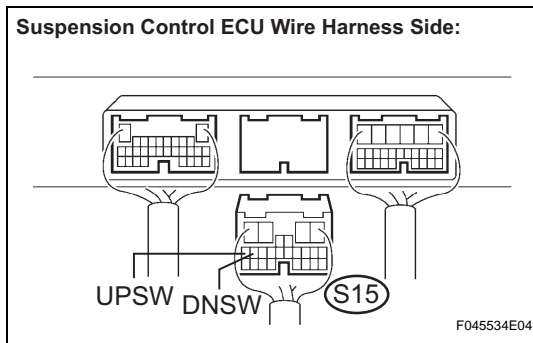| Switch Condition	Tester Connection	Specified Condition
"Down" button	1 (IGH) - 3 (LSW)	Below 1 Ω
OFF	1 (IGH) - 3 (LSW) 1 (IGH) - 6 (HSW)	10 kΩ or higher
"UP" button	1 (IGH) - 6 (HSW)	Below 1 Ω

NG >	REPLACE HEIGHT CONTROL SWITCH

OK

3	CHECK HARNESS AND CONNECTOR (SUSPENSION CONTROL ECU - HEIGHT CONTROL SWITCH)

Suspension Control ECU Wire Harness Side:

UPSW DNSW (S15)   F045534E04

(a) Disconnect the suspension control ECU S15 connector.
(b) Measure the resistance according to the values in the table below.

Resistance

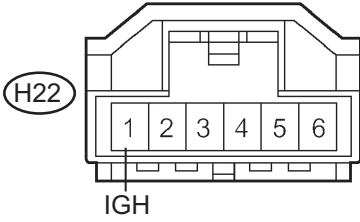| Tester Connection	Specified Condition
S15-15 (DNSW) - H22-3 (LSW)	Below 1 Ω
S15-16 (UPSW) - H22-6 (HSW)	Below 1 Ω
S15-15 (DNSW) - Body ground	10 kΩ or higher
S15-16 (UPSW) - Body ground	10 kΩ or higher

SC

NG >	REPAIR OR REPLACE HARNESS OR CONNECTOR

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OK
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4	CHECK HARNESS AND CONNECTOR (HEIGHT CONTROL SWITCH - BODY GROUND)

Height Control Switch Wire Harness Side:

H22

IGH

H   G025124E01

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

Resistance

Tester Connection	Specified Condition
H22-1 (IGH) - Body ground	Below 1 Ω

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NG    REPAIR OR REPLACE HARNESS OR
       CONNECTOR
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OK
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REPLACE SUSPENSION CONTROL ECU