

This circuit is sending the signal to the ECU by detecting that the transfer shift lever is in "L4" position.

Wiring diagram for the L4SW (L4 Switch) system. The diagram shows the connection between the Suspension Control ECU, the Cowl Side J/B RH, and the Junction Block No. 6.

Components and Connections:

- Suspension Control ECU:** Connected to the L4SW (S7) via a B-L line.
- Cowl Side J/B RH:** Contains terminals 54 (3Q) and 6 (3D). It is connected to the Junction Block No. 6 (32) via a B-L line.
- Junction Block No. 6:** Contains terminals 31 (6D) and 32 (6D). It is connected to the D5 Detection SW (Transfer L Position) via a B-L line.
- D5 Detection SW (Transfer L Position):** A switch connected to the Cowl Side J/B RH (11) via an R-L line.
- Cowl Side J/B RH:** Contains terminals 11 (EB1) and 14 (IO3). It is connected to the Junction Block No. 6 (3) via an R-L line.
- Junction Block No. 6:** Contains terminal 3 (EB1). It is connected to the Cowl Side J/B RH (3E) via an R-L line.
- Cowl Side J/B RH:** Contains terminal 3 (3E). It is connected to the Junction Block No. 6 (6) via an R-L line.
- Junction Block No. 6:** Contains terminal 6 (6). It is connected to the Cowl Side J/B RH (3E) via an R-L line.

INSPECTION PROCEDURE

1	Check output signal of L4 position switch.
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IN CASE OF USING LEXUS HAND-HELD TESTER:**PREPARATION:**

- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- (c) Select the DATA LIST mode on the LEXUS hand-held tester.

CHECK:

Check the L4 position switch condition displayed on the LEXUS hand-held tester when shifting the transfer shift lever in "L4" and "H4" positions.

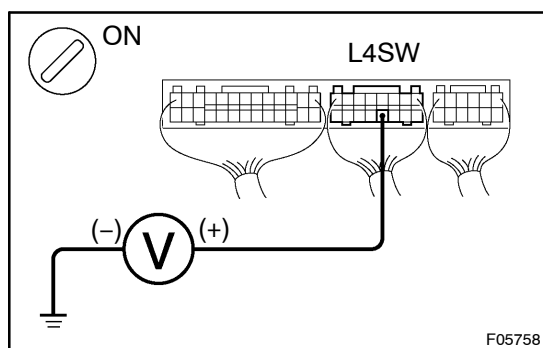
OK:

When the transfer shift lever is shifted in "L4" position:

"ON" is displayed for L4 position switch condition.

When the transfer shift lever is shifted in "H4" position:

"OFF" is displayed for L4 position switch condition.

**IN CASE OF NOT USING LEXUS HAND-HELD TESTER:****PREPARATION:**

Remove the suspension control ECU with connectors still connected.

CHECK:

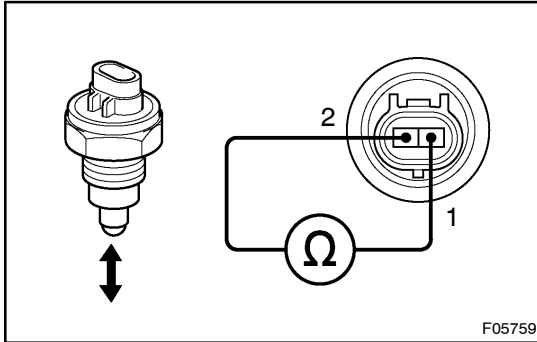
- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminal L4SW of suspension control ECU connector and body ground when transfer shift lever is shifted in "L4" and "H4" position.

OK:

Transfer shift lever position	Voltage
L4	Below 1.5 V
H4	9 – 14 V

OK**No problem.****NG**

2 Check L4 position switch.



PREPARATION:

- (a) Disconnect the L4 position switch connector.
- (b) Remove the L4 position switch (See page [TR-7](#)).

CHECK:

Measure resistance between terminals 1 and 2 of L4 position switch connector when the L4 position switch pushed and released.

OK:

Switch condition	Resistance
Pushed	0 Ω (continuity)
Released	∞ Ω (Open)

NG

Replace L4 position switch.

OK

3 Check for open and short circuit in harness and connector between L4 position switch and suspension control ECU (See page [IN-36](#)).

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Repair or replace harness or connector.

OK

Check and replace suspension control ECU.