DI3GY–03

DTC	C 1789 / 89	L4 Position Switch Circuit

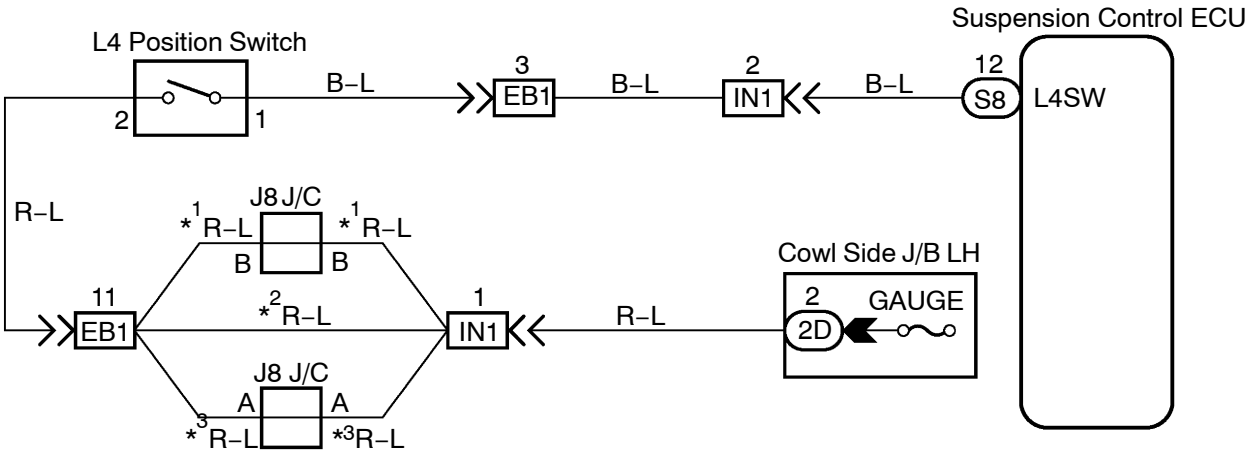
CIRCUIT DESCRIPTION

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

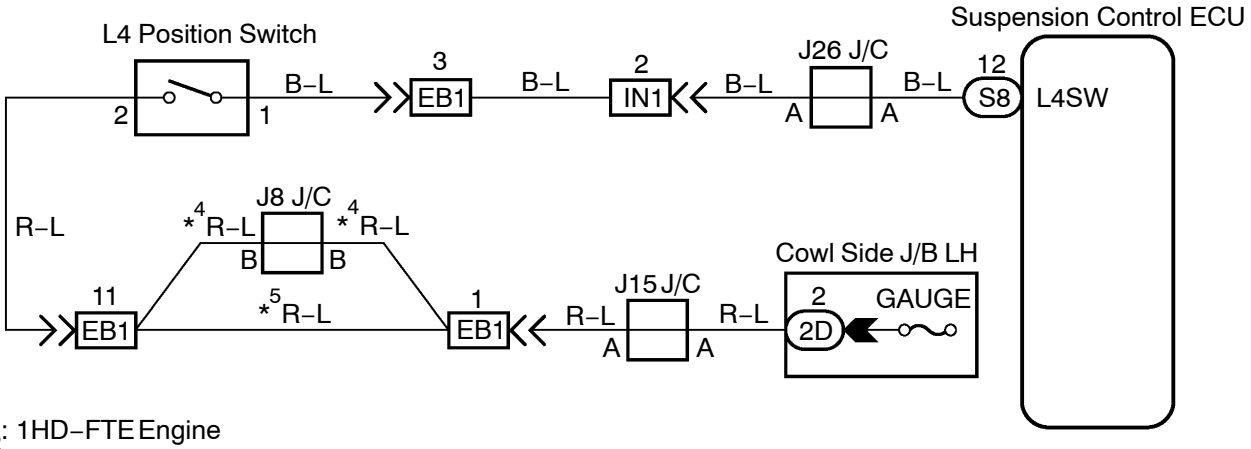
DTC No.	DTC Detecting Condition	Trouble Area
C1789 / 89	L4 position switch signal does not change.	• L4 position switch • L4 position switch circuit • Suspension control ECU

WIRING DIAGRAM

LHD



RHD



*1, *2: 1HD–FTE Engine
*3: 2UZ –FE Engine
*4: 1HD–T Engine
*5: 1HD–T and 1HD–FTE Engine A/T
* : 2UZ –FE and 1HZ–FTE Engine M/T

F05856

INSPECTION PROCEDURE

1	**Check output signal of L4 position switch.**

IN CASE OF USING HAND –HELD TESTER:

PREPARATION:

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

(b) Turn the ignition switch ON and push the hand –held tester main switch ON.

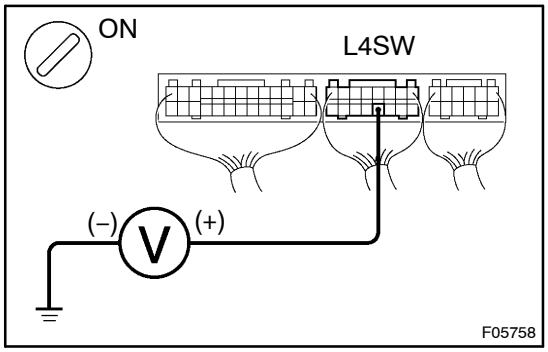
(c) Select the DATALIST mode on the hand –held tester.

CHECK:

Check the L4 position switch condition displayed on the 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 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.

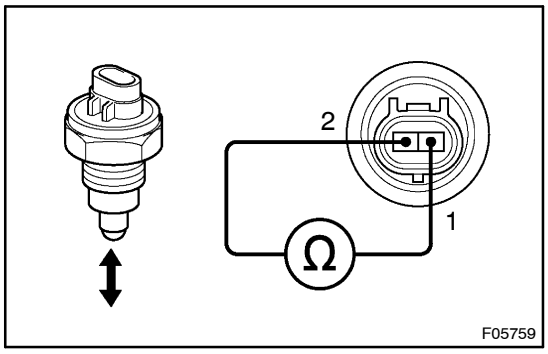
OK:

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–9).

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–35).

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

OK ↓

Check and replace suspension control ECU.