

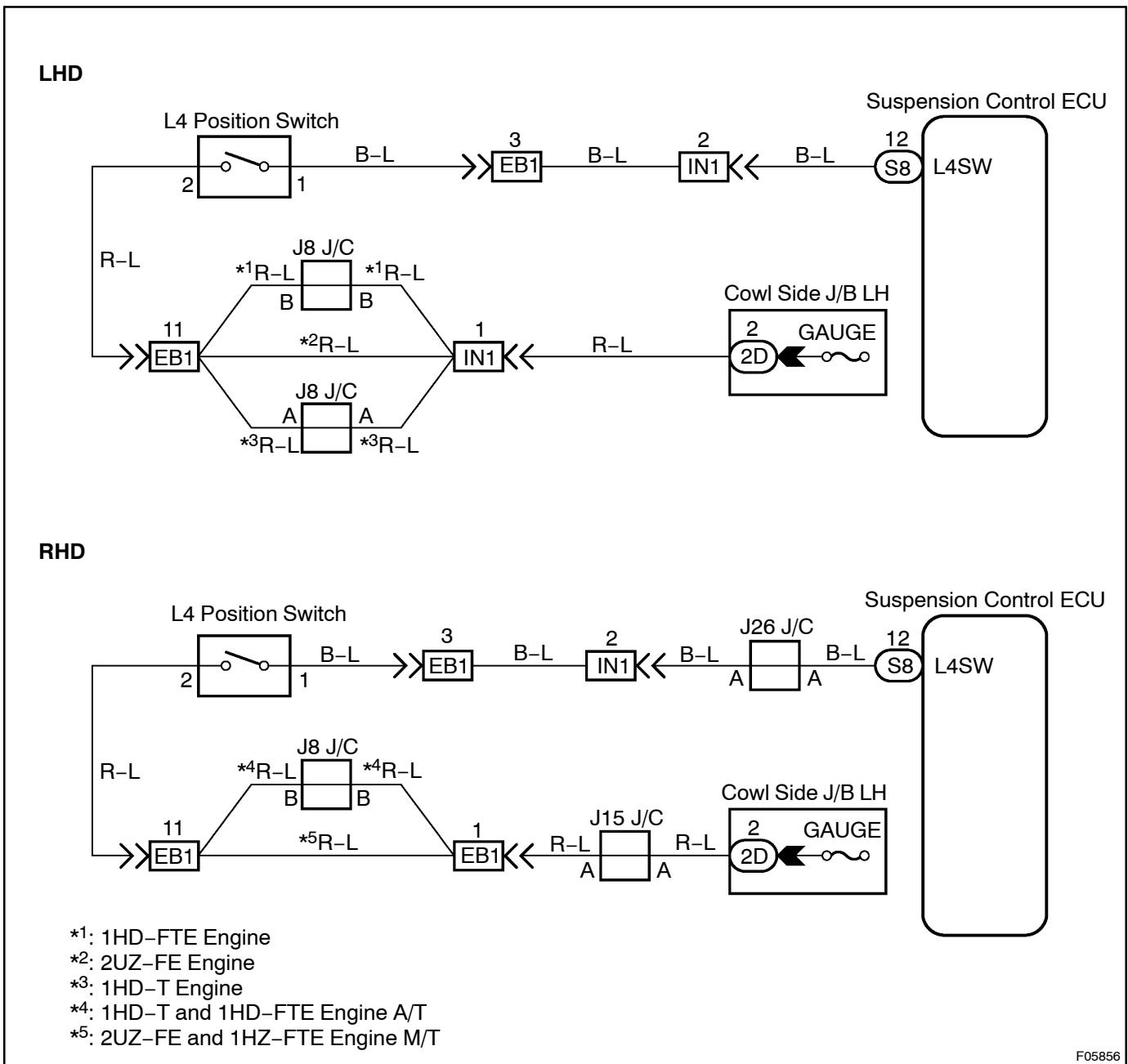
|            |                   |                                   |
|------------|-------------------|-----------------------------------|
| <b>DTC</b> | <b>C1789 / 89</b> | <b>L4 Position Switch Circuit</b> |
|------------|-------------------|-----------------------------------|

## 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. | <ul style="list-style-type: none"> <li>• L4 position switch</li> <li>• L4 position switch circuit</li> <li>• Suspension control ECU</li> </ul> |

## WIRING DIAGRAM



**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.

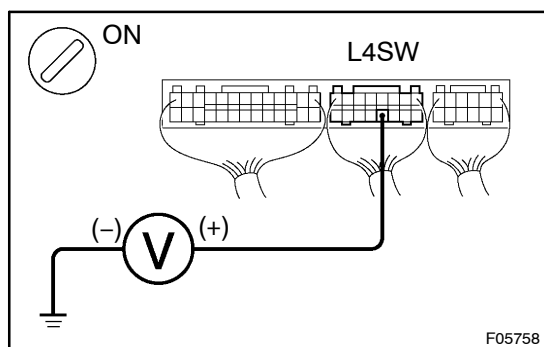
**OK:**

**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:**

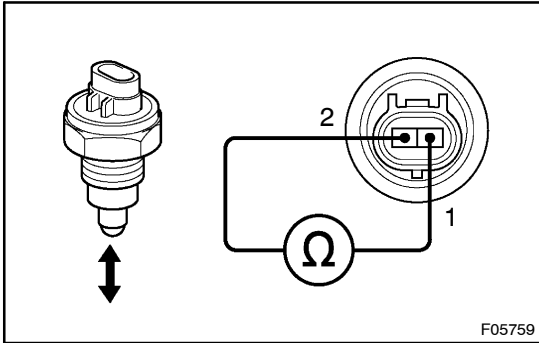
- (a) Turn the ignition switch ON.
- (b) Measure voltage between terminal L4SW of suspension control ECU connector and body ground when transfer shift lever is shifted in "L4" and "H4" position.

**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.**