

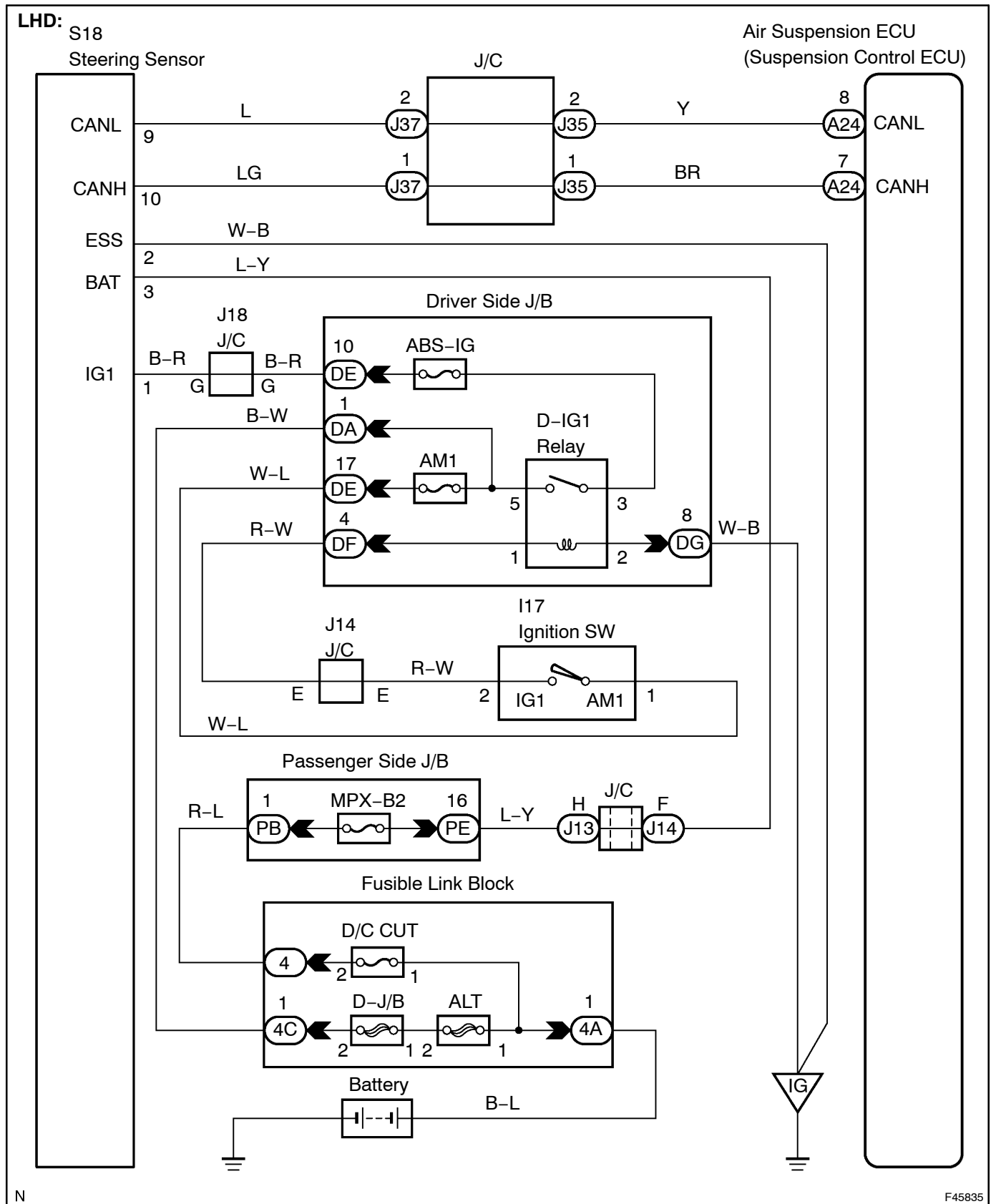
<b>DTC</b>	<b>C1777</b>	<b>STEERING ANGLE SENSOR CIRCUIT</b>
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## CIRCUIT DESCRIPTION

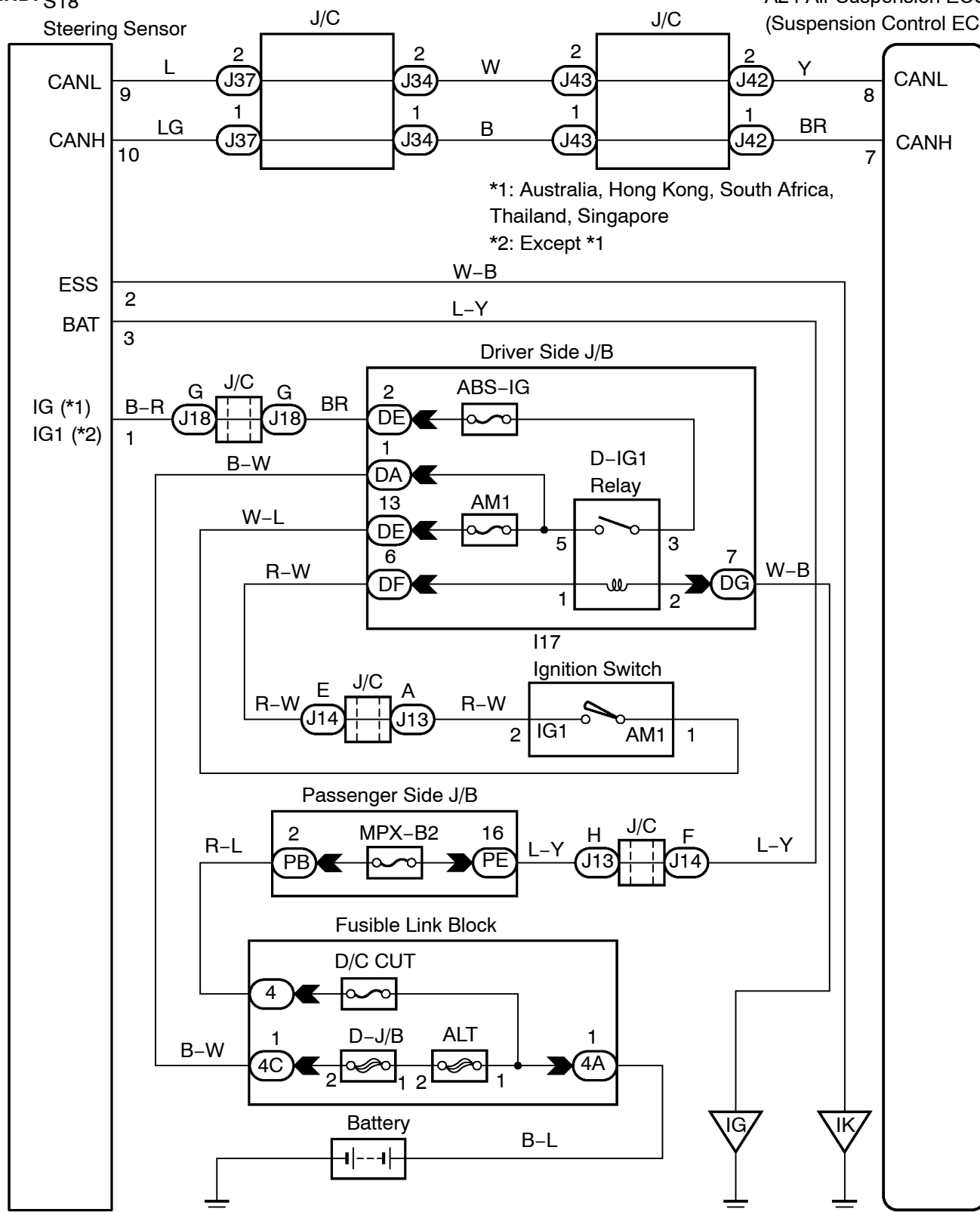
The steering angle sensor signal is sent to the suspension control ECU through the CAN communication system. When there is a communication malfunction, it will be detected by the diagnosis function.

DTC No.	DTC Detecting Condition	Trouble Area
C1777	Steering sensor signal is abnormal for 5 seconds or more.	<ul style="list-style-type: none"><li>• Steering sensor</li><li>• Steering angle sensor circuit</li><li>• Suspension control ECU</li></ul>

## WIRING DIAGRAM



RHD: S18

A24 Air Suspension ECU  
(Suspension Control ECU)

## INSPECTION PROCEDURE

## 1 READ VALUE ON INTELLIGENT TESTER

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

**AIR SUS:**

Item	Normal Condition
STEERING ANGLE	Actual steering angle Left turn: Reading increases Right turn: Reading decreases

- (d) Check that the steering wheel turning angle value of the steering angle position sensor displayed on the intelligent tester changes when turning the steering wheel.

**Standard:**

Steering wheel turning angle value changes.

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Go to step 2

OK

## REPLACE SUSPENSION CONTROL ECU (SEE PAGE 25-20)

## 2 CHECK DIAGNOSTIC CODE OUTPUT

- (a) Check if the normal system code is output in the CAN communication system (see page 05-3306).

**OK:**

No DTC is output in the CAN communication system.

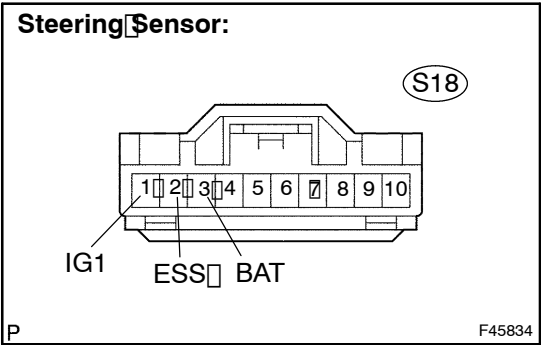
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REPAIR CIRCUIT INDICATED BY OUTPUT CODE

OK

3 CHECK HARNESS AND CONNECTOR (STEERING SENSOR POWER SOURCE)

Steering Sensor:



- (a) Disconnect the steering sensor S18 connector.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S18-1 (IG1) - S18-2 (ESS)	10 to 14 V
S18-3 (BAT) - S18-2 (ESS)	10 to 14 V

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE STEERING SENSOR (SEE PAGE 32-65)