STEERING SENSOR COMMUNICATION STOP MODE

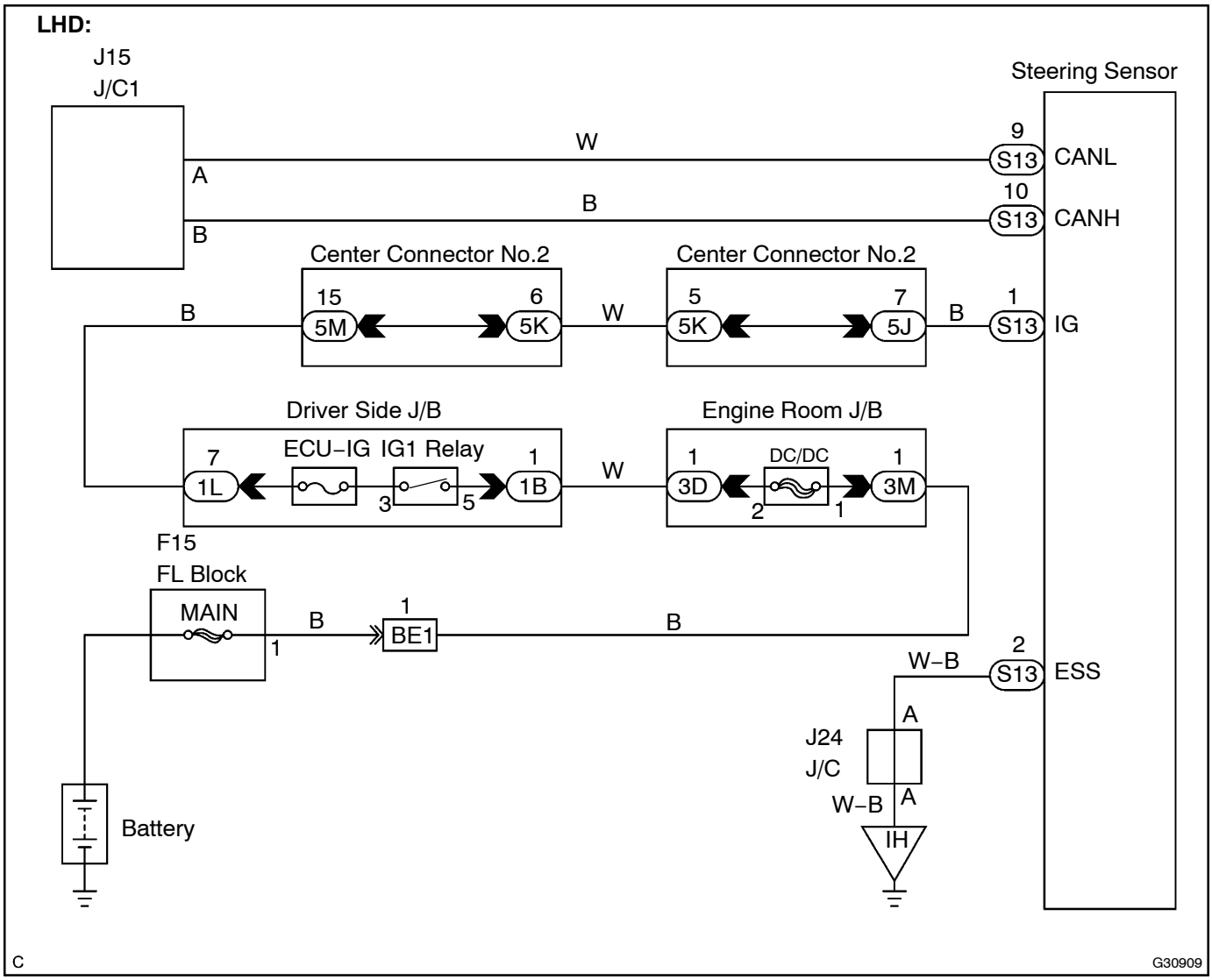
MODE DESCRIPTION

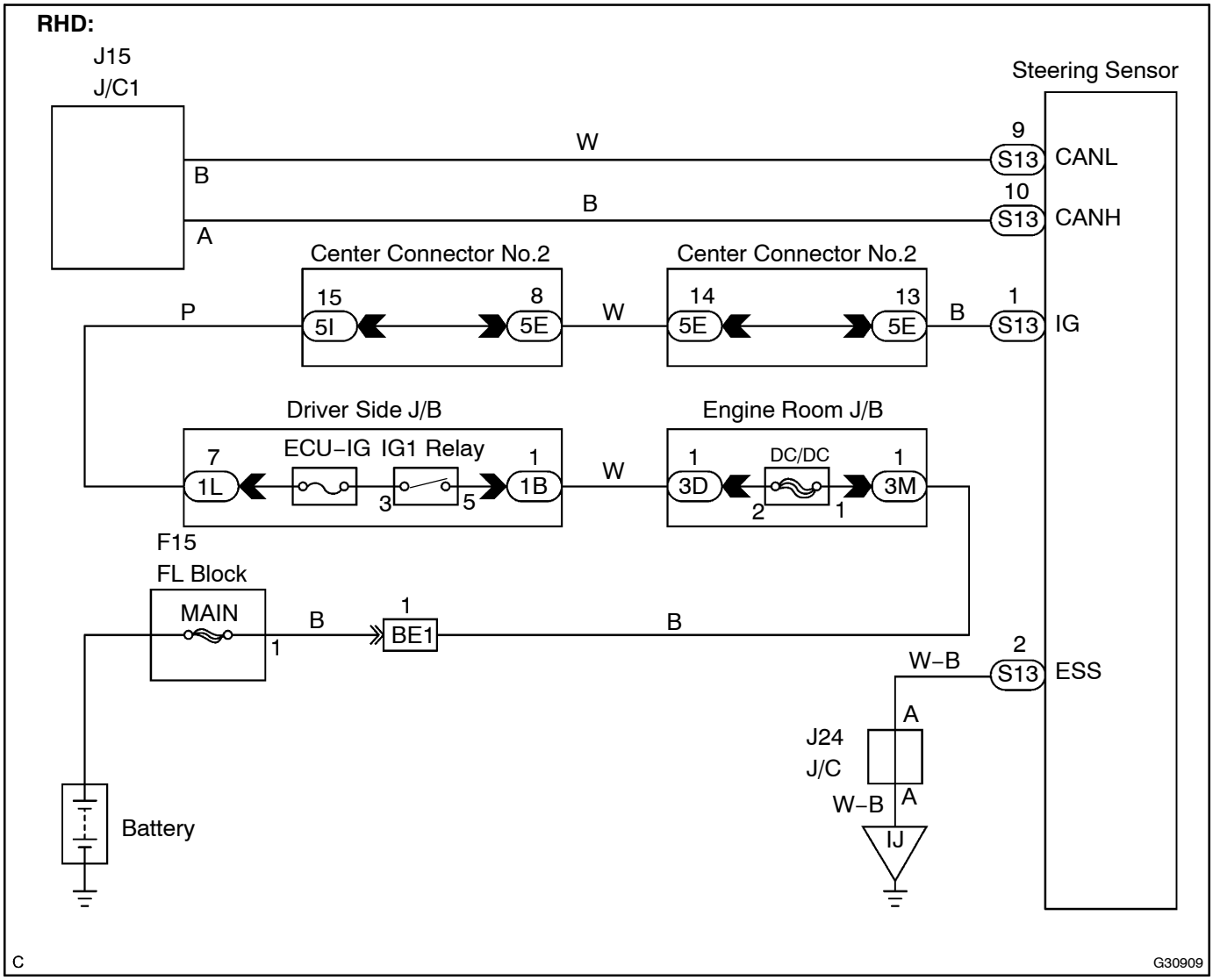
Detection Item	Symptom	Trouble Area
STEERING SENSOR COMMUNICATION STOP MODE	• ”Steering Angle Sensor” is not displayed on the ”Communication Bus Check” screen of the intelligent tester II. • Applies to ”STEERING SENSOR COMMUNICATION STOP MODE” in the ”DTC COMBINATION TABLE” (see page 05–2315).	• Power source or inside the steering sensor • Steering sensor sub bus line or connector

NOTICE:

This is not applicable to a vehicle without VSC+.

WIRING DIAGRAM

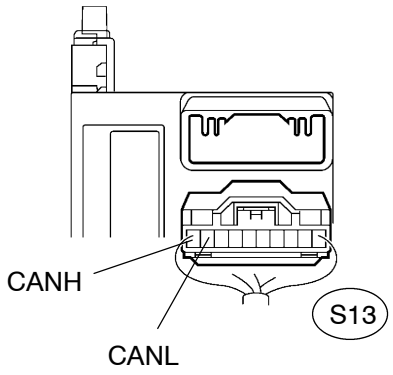



RHD:
J15
J/C1
Steering Sensor
W
B
9
S13
CANL
B
A
10
S13
CANH
Center Connector No.2
Center Connector No.2
P
15
5I
8
5E
W
14
5E
13
5E
B
1
S13
IG
Driver Side J/B
Engine Room J/B
ECU–IG
IG1 Relay
7
1L
1
1B
3
5
W
1
3D
DC/DC
1
3M
2
1
F15
FL Block
MAIN
1
B
1
BE1
B
W–B
2
S13
ESS
A
J24
J/C
W–B
A
IJ
Battery
C
G30909

INSPECTION PROCEDURE

1	CHECK CAN BUS LINE FOR DISCONNECTION(STEERING SENSOR SUB BUS LINE)

Steering Sensor
Wire Harness View:



G30155

(a) Turn the power switch off.
(b) Disconnect the steering sensor connector (S13).
(c) Measure the resistance according to the value(s) in the table below.

Standard:

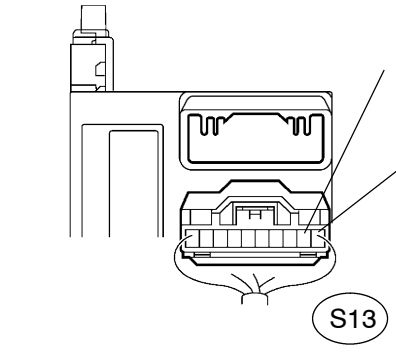
Tester connection	Condition	Specified value
S13–10 (CANH) – S13–9 (CANL)	Power Switch OFF	54 to 69 Ω

NG → **REPLACE STEERING SENSOR SUB BUS LINE OR CONNECTOR (CAN–H, CAN–L)**

OK

2	CHECK WIRE HARNESS(IG1,ESS)

Steering Sensor
Wire Harness View:



G30156

(a) Measure the resistance according to the value(s) in the table below.
(b) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S13–2 (ESS) – Body ground	Always	Below 1 Ω
S13–1 (IG) – Body ground	Power Switch ON (IG)	10 to 14 V

NG → **REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR**

OK

REPLACE STEERING SENSOR (SEE PAGE 32–85)