PROBLEM SYMPTOMS TABLE

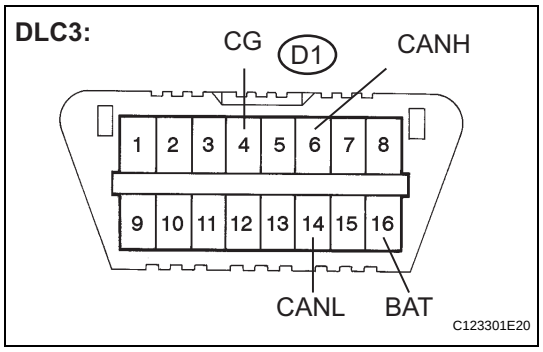
Confirm the trouble mode by referring to the above. Then check the parts to be replaced and pages to proceed to, by referring to the below.

RESULT LIST OF HOW TO PROCEED WITH TROUBLESHOOTING

Symptom	Suspected area	See page
The result of HOW TO PROCEED WITH TROUBLESHOOTING is Open in CAN Main Bus Line	CHECK CAN MAIN BUS LINE FOR DISCONNECTION	CA-16
The result of HOW TO PROCEED WITH TROUBLESHOOTING is in CAN Bus Line	CHECK CAN BUS LINE	CA-19
The result of HOW TO PROCEED WITH TROUBLESHOOTING is Short to +B in CAN Bus Line	CHECK CAN BUS LINE FOR SHORT TO +B	CA-26
The result of HOW TO PROCEED WITH TROUBLESHOOTING is Short to GND in CAN Bus Line	CHECK CAN BUS LINE FOR SHORT TO GND	CA-30
The result of HOW TO PROCEED WITH TROUBLESHOOTING is Short in CAN Bus Line	CHECK CAN SUB LINES FOR SHORT CIRCUIT	CA-22

COMMUNICATION STOP MODE TABLE

Symptom	Suspected area	See page
Skid control ECU is not displayed on the intelligent tester	SKID CONTROL ECU COMMUNICATION STOP MODE	CA-11
Yaw rate sensor is not displayed on the intelligent tester	YAW RATE SENSOR COMMUNICATION STOP MODE	CA-12
Steering sensor is not displayed on the intelligent tester	STEERING SENSOR COMMUNICATION STOP MODE	CA-14



TERMINALS OF ECU

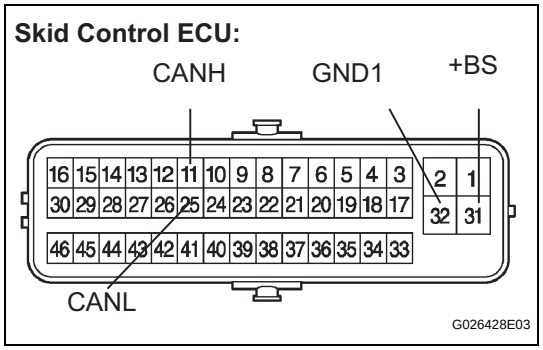
1. DLC3

(a) Check DLC3.

(1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Terminals	Check item	Condition	Specified value
D1-6 (CANH) - D1-14 (CANL)	**Resistance**	**IG switch OFF**	**54 to 69 Ω**
D1-6 (CANH) - D1-16 (BAT)	**Resistance**	**IG switch OFF**	**6 kΩ or higher**
D1-14 (CANL) - D1-16 (BAT)	**Resistance**	**IG switch OFF**	**6 kΩ or higher**
D1-6 (CANH) -D1-4 (CG)	**Resistance**	**IG switch OFF**	**200 Ω or higher**
D1-14 (CANL) - D1-4 (CG)	**Resistance**	**IG switch OFF**	**200 Ω or higher**



2. SKID CONTROL ECU

(a) Check skid control ECU.

(1) Disconnect the connector (S1) from the skid control ECU.

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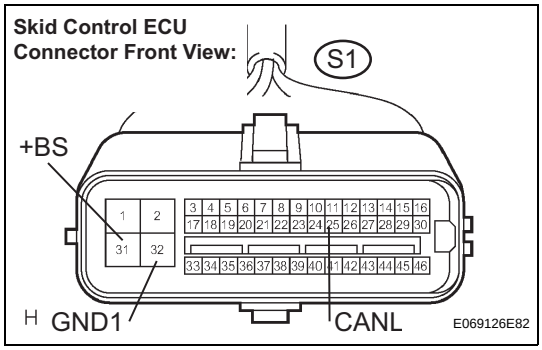
(2) Measure the resistance according to the value(s) in the table below.

Standard resistance

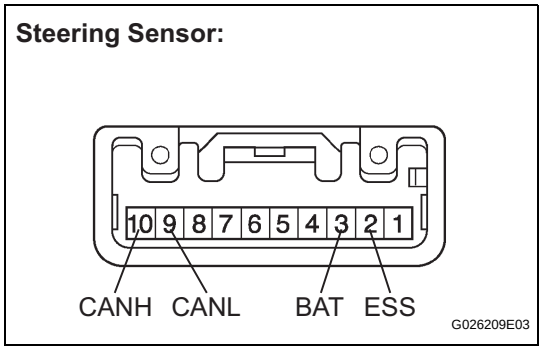
Terminals	Check item	Condition	Specified value
11 (CANH) - 25 (CANL)	Resistance	IG switch OFF	108 to 132 Ω
11 (CANH) - 32 (GND1)	Resistance	IG switch OFF	200 Ω or higher
25 (CANL) - 32 (GND1)	Resistance	IG switch OFF	200 Ω or higher
11 (CANH) - 31 (+BS)	Resistance	IG switch OFF	6 kΩ or higher
25 (CANL) - 31 (+BS)	Resistance	IG switch OFF	6 kΩ or higher



(b) Check the skid control ECU harness side connector (S1).
(1) Disconnect the connector (S1) from the skid control ECU.
(2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Terminals	Wiring Color	Check item	Condition	Specified value
S1-11 (CANH) - S1-25 (CANL)	B - W	Resistance	IG switch OFF	108 to 132 Ω
S1-11 (CANH) - S1-32 (GND1)	B - W-B	Resistance	IG switch OFF	200 Ω or higher
S1-25 (CANL) - S1-32 (GND1)	W - W-B	Resistance	IG switch OFF	200 Ω or higher
S1-11 (CANH) - S1-31 (+BS)	B - B	Resistance	IG switch OFF	6 kΩ or higher
S1-25 (CANL) - S1-31 (+BS)	W - B	Resistance	IG switch OFF	6 kΩ or higher



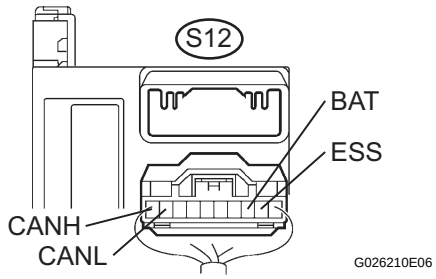
3. STEERING SENSOR

(a) Check steering sensor.
(1) Disconnect the connector (S12) from the steering sensor.
(2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Terminals	Check item	Condition	Specified value
10 (CANH) - 9 (CANL)	Resistance	IG switch OFF	108 to 132 Ω
10 (CANH) - 2 (ESS)	Resistance	IG switch OFF	200 Ω or higher
9 (CANL) - 2 (ESS)	Resistance	IG switch OFF	200 Ω or higher
10 (CANH) - 3 (BAT)	Resistance	IG switch OFF	6 kΩ or higher
9 (CANL) - 3 (BAT)	Resistance	IG switch OFF	6 kΩ or higher

Steering Sensor Wire Harness View:

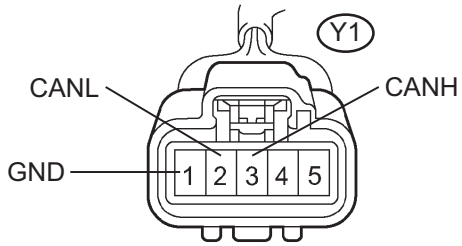


(b) Check the harness side connector (S12) of the steering sensor.
(1) Disconnect the connector (S12) from the steering sensor.
(2) Measure the resistance according to the value(s) in the table below.

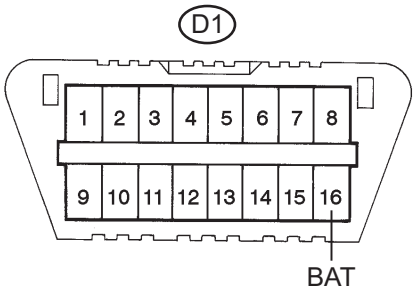
Standard resistance

Terminals	Wiring Color	Check item	Condition	Specified value
S12-10 (CANH) - S12-9 (CANL)	B - W	Resistance	IG switch OFF	108 to 132 Ω
S12-10 (CANH) - S12-2 (ESS)	B - W-B	Resistance	IG switch OFF	200 Ω or higher
S12-9 (CANL) - S12-2 (ESS)	W - W-B	Resistance	IG switch OFF	200 Ω or higher
S12-10 (CANH) - S12-3 (BAT)	B - R-B	Resistance	IG switch OFF	6 kΩ or higher
S12-9 (CANL) - S12-3 (BAT)	W - R-B	Resistance	IG switch OFF	6 kΩ or higher

Yaw Rate Sensor Connector Front View:



DLC3:



4. YAW RATE SENSOR

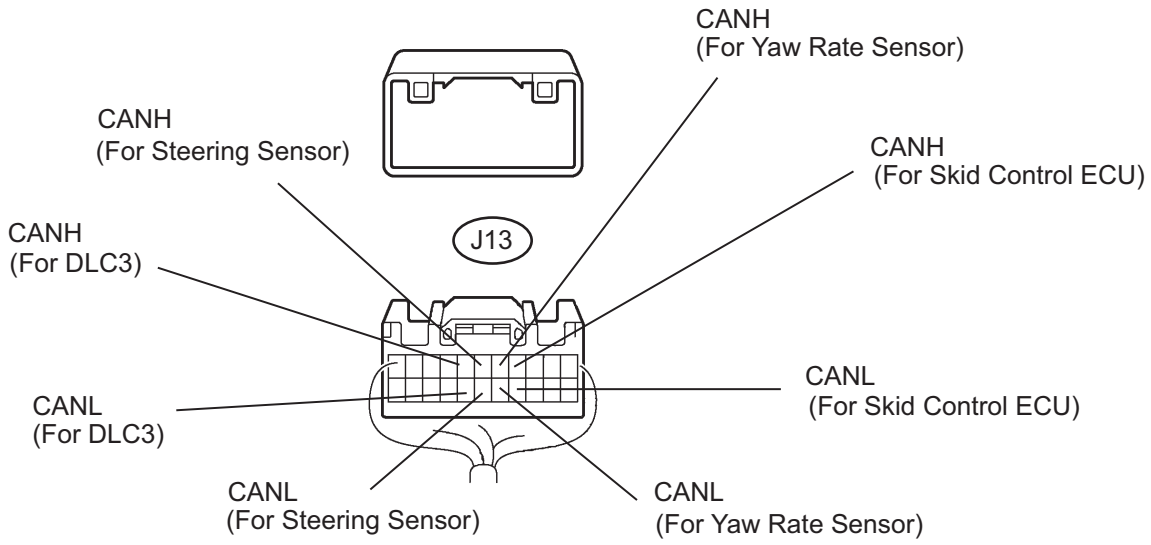
(a) Check the yaw rate sensor harness side connector (Y1).
(1) Disconnect the connector (Y1) from the yaw rate sensor.
(2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Terminals	Wiring Color	Check item	Condition	Specified value
Y1-3 (CANH) - Y1-2 (CANL)	B - W	Resistance	IG switch OFF	54 to 69 Ω
Y1-3 (CANH) - Y1-1 (GND)	B - W-B	Resistance	IG switch OFF	200 Ω or higher
Y1-2 (CANL) - Y1-1 (GND)	W - W-B	Resistance	IG switch OFF	200 Ω or higher
Y1-3 (CANH) - D1-16 (BAT)	B - R-B	Resistance	IG switch OFF	6 kΩ or higher
Y1-2 (CANL) - D1-16 (BAT)	W - R-B	Resistance	IG switch OFF	6 kΩ or higher

5. JUNCTION CONNECTOR (J13)

Junction Connector (J13) Wire Harneess View:



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(a) Terminal arrangement and connection

Terminals	Connects to
J13-4 (CANH)	Skid Control ECU (CANH)
J13-15 (CANL)	Skid Control ECU (CANL)
J13-5 (CANH)	Yaw Rate Sensor (CAN-H)
J13-16 (CANL)	Yaw Rate Sensor (CAN-L)
J13-6 (CANH)	Steering Sensor (CANH)
J13-17 (CANL)	Steering Sensor (CANL)
J13-7 (CANH)	DLC3 (CANH)
J13-18 (CANL)	DLC3 (CANL)