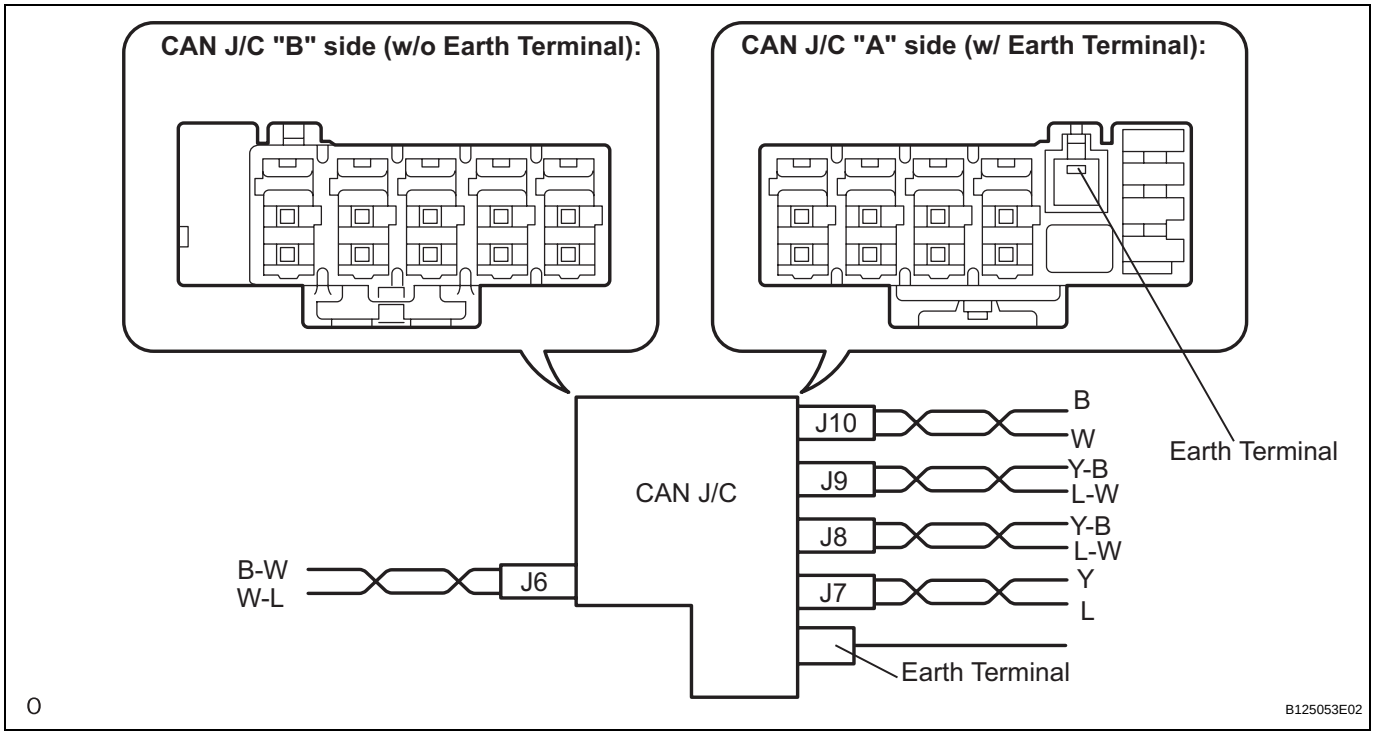
TERMINALS OF ECU

HINT:
This section describes the standard CAN values for all CAN related components.

1. CAN JUNCTION CONNECTOR

(a) CAN J/C connectors.
HINT:
- The connectors connected to the CAN J/C can be distinguished by the colors of the bus lines and the connecting side of the connector.
- J7, J8, J9 and J10 are interchangeable.



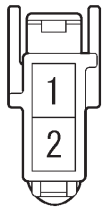
Wiring color

CAN J/C connectors ("A" side, w/ earth terminal)	Color (CAN-H Side)	Color (CAN-L Side)
ECM (J10)	B	W
DLC3 (J9)	Y-B	L-W
Steering angle sensor (J8)	Y-B	L-W
Yaw rate sensor (J7)	W	R

Wiring color

CAN J/C connectors (B side, w/o earth terminal)	Color (CAN-H Side)	Color (CAN-L Side)
Skid control ECU (J6)	B	W

CAN J/C Connector Front View:



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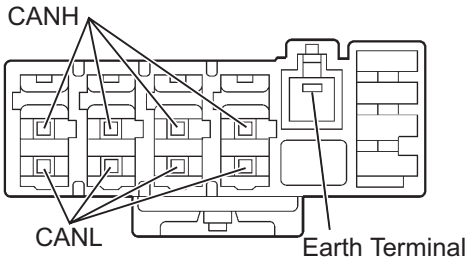
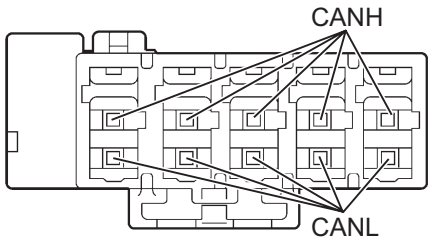
(b) The terminals of the CAN J/C connectors.

Terminal	Terminal symbol
1	CANH
2	CANL

CAN J/C "A" Side (w/ Earth Terminal):



CAN J/C "B" Side (w/o Earth Terminal):



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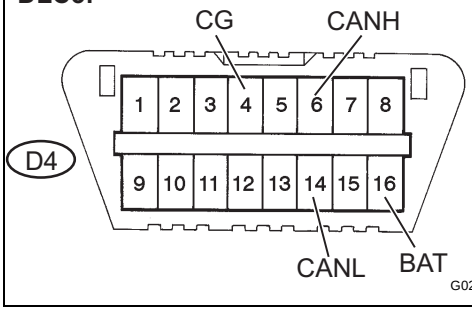
(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Terminal	Specified value
CANH - CANL	**108 to 132 Ω**

DLC3:



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2. DLC3

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

Standard Resistance

Terminals	Terminal Description	Condition	Specified Condition
D4-6 (CANH) - D4-14 (CANL)	**HIGH-level CAN bus line - LOW-level CAN bus line**	**IG switch OFF Stop light switch OFF**	**54 to 69 Ω**
D4-6 (CANH) - D4-16 (BAT)	**HIGH-level CAN bus line - Battery positive**	**IG switch OFF Stop light switch OFF**	**1 MΩ or higher**
D4-14 (CANL) - D4-16 (BAT)	**LOW-level CAN bus line - Battery positive**	**IG switch OFF Stop light switch OFF**	**1 MΩ or higher**
D4-6 (CANH) - D4-4 (CG)	**HIGH-level CAN bus line - Ground**	**IG switch OFF Stop light switch OFF**	**3 kΩ or higher**

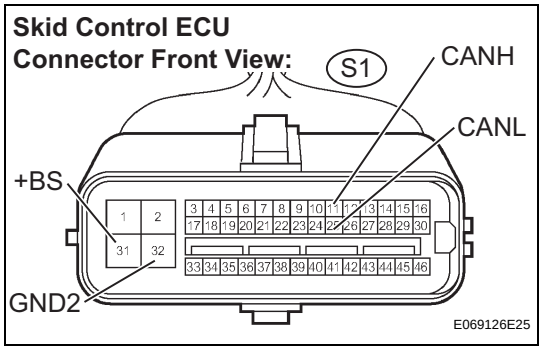
Terminals	Terminal Description	Condition	Specified Condition
D4-14 (CANL) - D4-4 (CG)	LOW-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher

3. SKID CONTROL ECU

(a) 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	Terminal Description	Condition	Specified Condition
S1-11 (CANH) - S1-25 (CANL)	B-W - W-L	HIGH-level CAN bus line - LOW-level CAN bus line	IG switch OFF Stop light switch OFF	54 to 69 Ω
S1-11 (CANH) - S1-32 (GND2)	B-W - W-B	HIGH-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
S1-25 (CANL) - S1-32 (GND2)	W-B - W-B	LOW-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
S1-11 (CANH) - S1-31 (+BS)	B-W - R	HIGH-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher
S1-25 (CANL) - S1-31 (+BS)	W-L - R	LOW-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher

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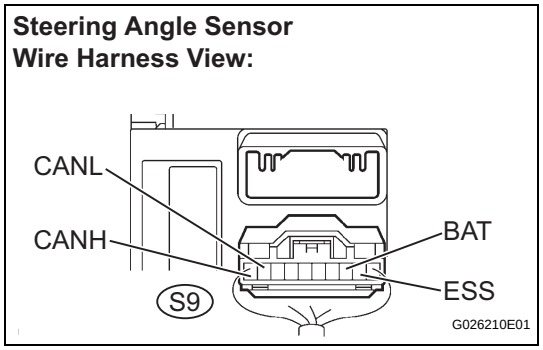
4. STEERING ANGLE SENSOR

(a) Check the harness side connector (S9) of the steering angle sensor.

(1) Disconnect the connector (S9) from the steering angle sensor.

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



Standard Resistance

Terminals	Wiring Color	Terminal Description	Condition	Specified Condition
S9-3 (CANH) - S9-11 (CANL)	Y-B - L-W	HIGH-level CAN bus line - LOW-level CAN bus line	IG switch OFF Stop light switch OFF	54 to 69 Ω

Terminals	Wiring Color	Terminal Description	Condition	Specified Condition
S9-3 (CANH) - S9-2 (ESS)	Y-B - W-B	HIGH-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
S9-11 (CANL) - S9-21 (ESS)	L-W - W-B	LOW-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
S9-3 (CANH) - S9-9 (BAT)	Y-B - R	HIGH-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher
S9-11 (CANL) - S9-9 (BAT)	L-W - R	LOW-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher

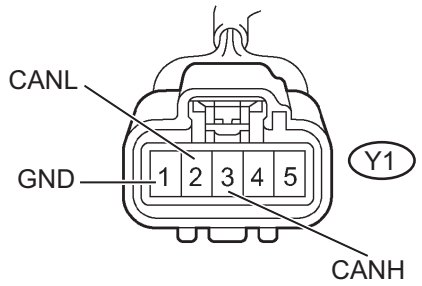
5. YAW RATE SENSOR

(a) Check the yaw rate sensor harness side connector (Y1).

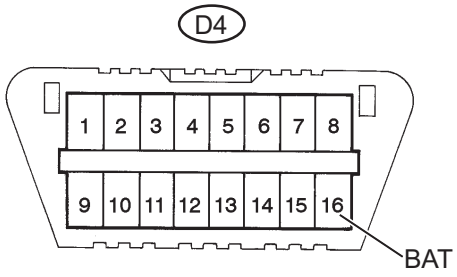
(1) Disconnect the connector (Y1) from the yaw rate sensor.

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

Yaw Rate Sensor Connector Front View:



DLC3:



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Standard Resistance

Terminals	Wiring Color	Terminal Description	Condition	Specified Condition
Y1-3 (CANH) - Y1-2 (CANL)	Y - L	HIGH-level CAN bus line - LOW-level CAN bus line	IG switch OFF Stop light switch OFF	54 to 69 Ω
Y1-3 (CANH) - Y1-1 (GND)	Y - W-B	HIGH-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
Y1-2 (CANL) - Y1-1 (GND)	L - W-B	LOW-level CAN bus line - Ground	IG switch OFF Stop light switch OFF	3 kΩ or higher
Y1-3 (CANH) - D4-16 (BAT)	Y - Y	HIGH-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher
Y1-2 (CANL) - D4-16 (BAT)	L - Y	LOW-level CAN bus line - Battery positive	IG switch OFF Stop light switch OFF	1 MΩ or higher

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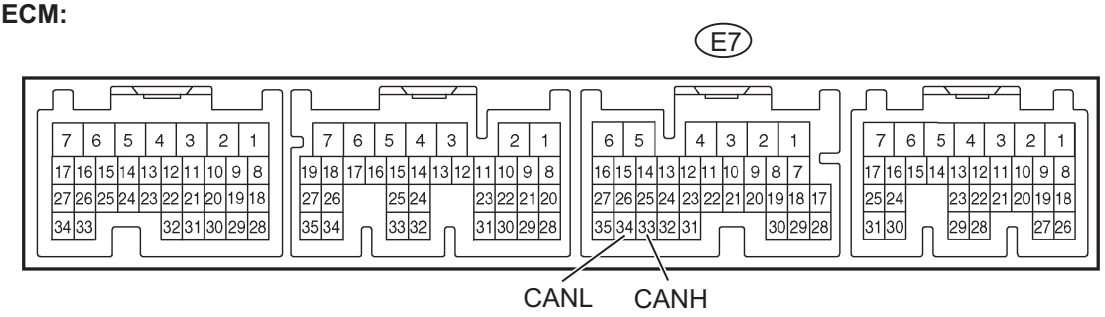
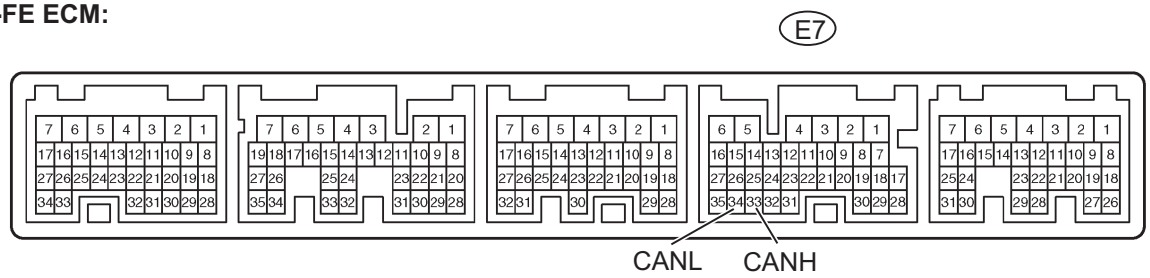
6. ECM

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

2TR-FE ECM:



1GR-FE ECM:



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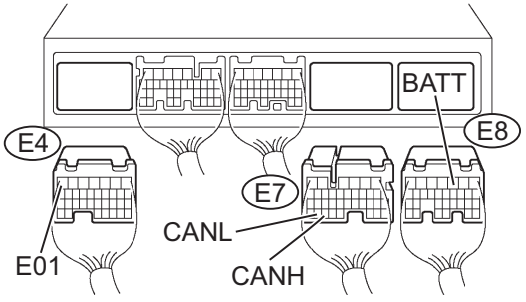
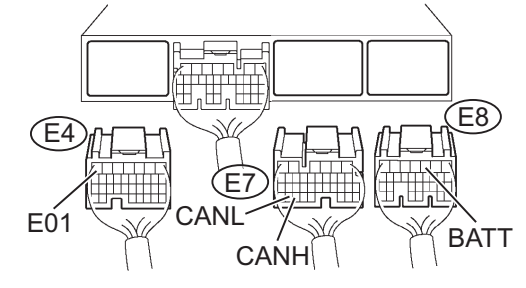
Standard resistance

Terminals	Condition	Specified Condition
E7-33 (CANH) - E7-34 (CANL)	IG switch OFF Stop light switch OFF	108 to 132 Ω

ECM Wire Harness View 1GR-FE:



ECM Wire Harness View 2TR-FE:



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

Standard resistance

Terminals	Wiring Color	Condition	Specified Condition
E7-33 (CANH) - E7-34 (CANL)	B - W	IG switch OFF Stop light switch OFF	108 to 132 Ω

CA

Terminals	Wiring Color	Condition	Specified Condition
E7-33 (CANH) - E4-7 (E01)	B - W-B	IG switch OFF Stop light switch OFF	3 kΩ or more
E7-34 (CANL) - E4-7 (E01)	W - W-B	IG switch OFF Stop light switch OFF	3 kΩ or more
E7-33 (CANH) - E8-3 (BATT)	B - L	IG switch OFF Stop light switch OFF	1 MΩ or more
E7-34 (CANL) - E8-3 (BATT)	W - L	IG switch OFF Stop light switch OFF	1 MΩ or more