

PROBLEM SYMPTOMS TABLE

Result list of how to proceed with troubleshooting

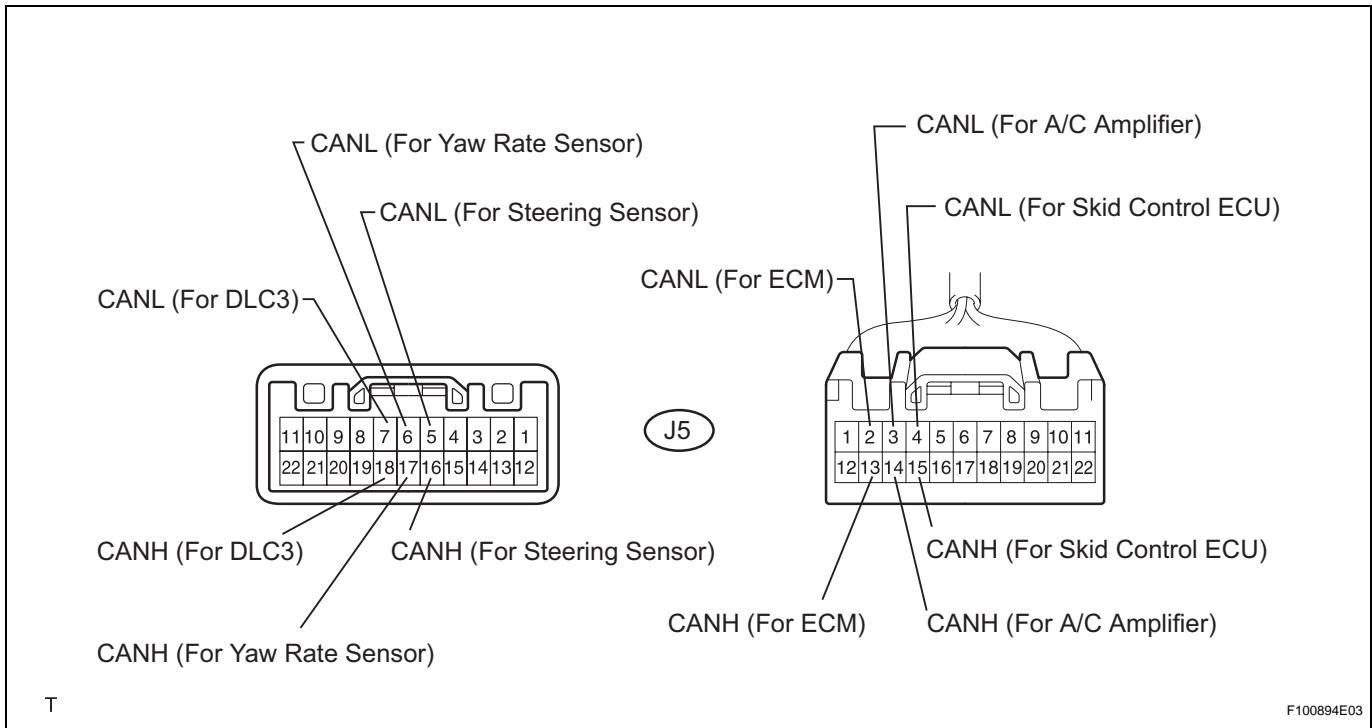
Symptom	Suspected area	See page
Open in CAN Main Bus Line	CHECK CAN MAIN BUS LINE FOR DISCONNECTION	CA-31
Short in CAN Bus Line	CHECK CAN BUS LINE FOR SHORT CIRCUIT	CA-34
Short to B+ CAN Bus Line	CHECK CAN BUS LINE FOR SHORT TO B+	CA-40
Short to GND in CAN Bus Line	CHECK CAN BUS LINE FOR SHORT TO GND	CA-46
Open in One Side of CAN Sub Bus Line	CHECK FOR AN OPEN IN ONE SIDE OF THE CAN SUB BUS LINE	CA-52

Communication stop mode table

Symptom	Suspected area	See page
ENGINE is not displayed on the intelligent tester via CAN VIM	ECM COMMUNICATION STOP MODE	CA-24
SKID CONTROL ECU is not displayed on the intelligent tester via CAN VIM	SKID CONTROL ECU COMMUNICATION STOP MODE	CA-16
STEERING SENSOR is not displayed on the intelligent tester via CAN VIM	STEERING SENSOR COMMUNICATION STOP MODE	CA-20
YAW RATE SENSOR is not displayed on the intelligent tester via CAN VIM	YAW RATE SENSOR COMMUNICATION STOP MODE	CA-22
A/C AMPLIFIER is not displayed on the intelligent tester via CAN VIM	A/C CONDITIONING AMPLIFIER COMMUNICATION STOP MODE	CA-18

TERMINALS OF ECU

1. JUNCTION CONNECTOR



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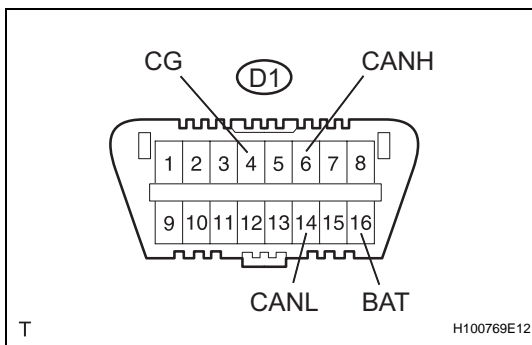
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Junction Connector	Wiring Color	Connect to
CANH (J5-13)	B	ECM
CANL (J5-2)	W	ECM
CANH (J5-14)	B	A/C Amplifier
CANL (J5-3)	W	A/C Amplifier
CANH (J5-15)	B	Skid Control ECU
CANL (J5-4)	W	Skid Control ECU
CANH (J5-16)	B	Steering Sensor
CANL (J5-5)	W	Steering Sensor
CANH (J5-17)	B	Yaw Rate Sensor
CANL (J5-6)	W	Yaw Rate Sensor
CANH (J5-18)	B	DLC3
CANL (J5-7)	W	DLC3

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2. CHECK DLC3

- (a) Measure the resistance of the connector.



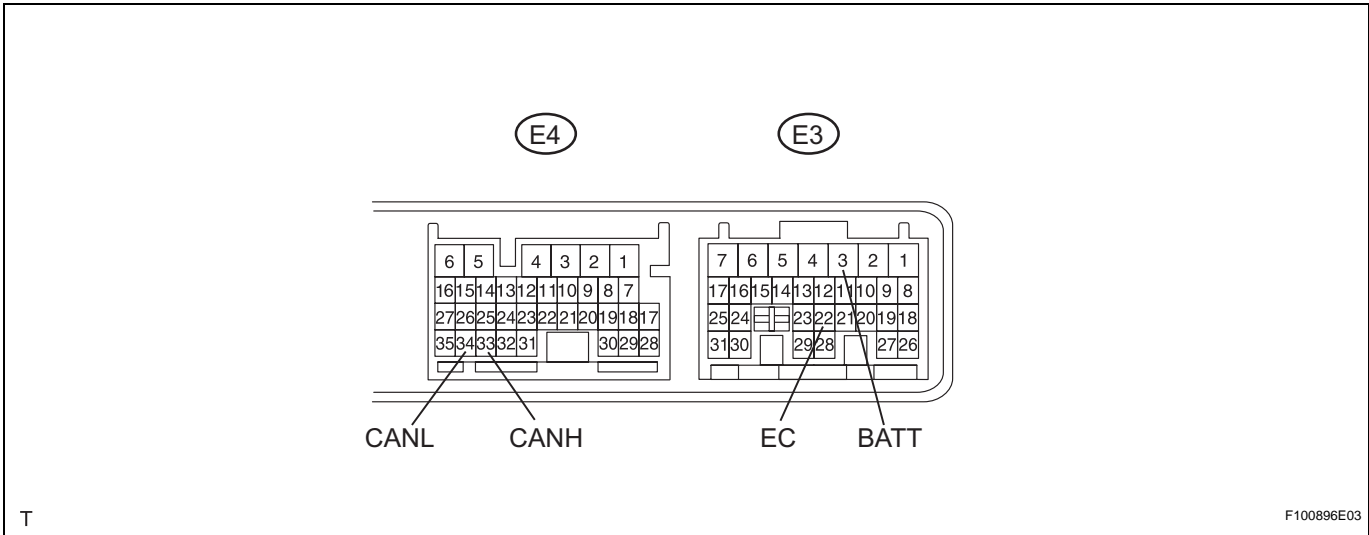
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Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (D1-6) - CANL (D1-14)	B - W	Ignition switch OFF	54 to 69 Ω
CANH (D1-6) - CG (D1-4)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (D1-14) - CG (D1-4)	W - W-B	Ignition switch OFF	3 kΩ or higher

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (D1-6) - BAT (D1-16)	B - B-O	Ignition switch OFF	1 MΩ or higher
CANL (D1-14) - BAT (D1-16)	W - B-O	Ignition switch OFF	1 MΩ or higher

3. CHECK ECM



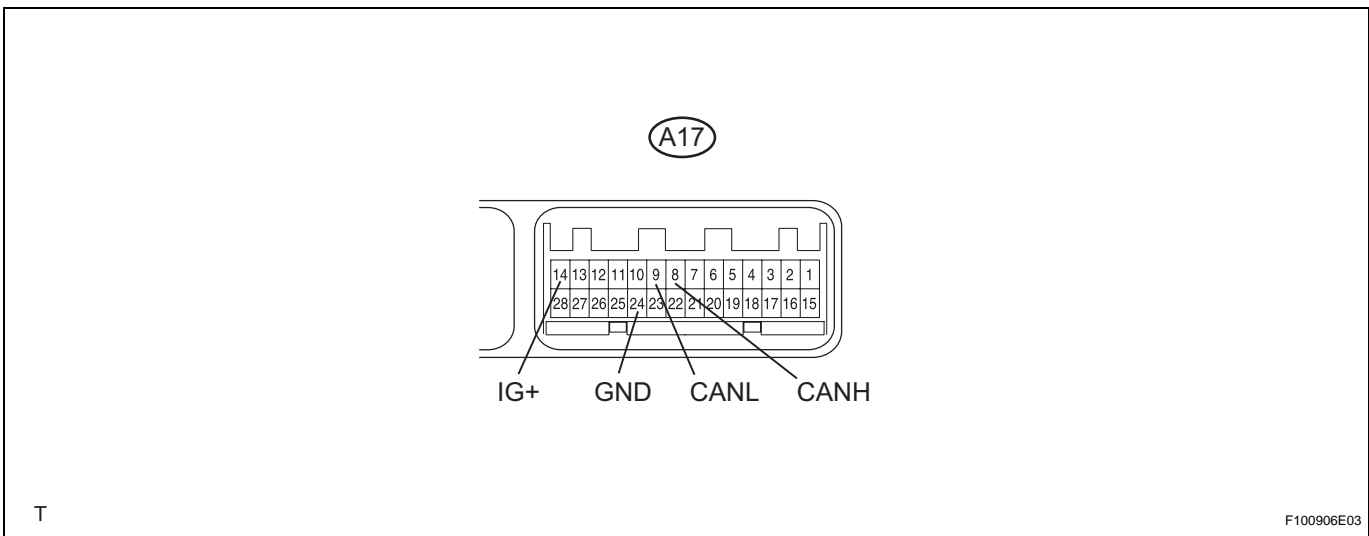
(a) Measure the resistance of the connector.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (E4-33) - CANL (E4-34)	B - W	Ignition switch OFF	54 to 69 Ω

- (b) Disconnect the E4 and E3 ECM connectors.
- (c) Measure the resistance of the wire harness side connectors.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (E4-33) - CANL (E4-34)	B - W	Ignition switch OFF	108 to 132 Ω
CANH (E4-33) - EC (E3-22)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (E4-34) - EC (E3-22)	W - W-B	Ignition switch OFF	3 kΩ or higher
CANH (E4-33) - BATT (E3-3)	B - B-Y	Ignition switch OFF	1 MΩ or higher
CANL (E4-34) - BATT (E3-3)	W - B-Y	Ignition switch OFF	1 MΩ or higher

4. CHECK A/C AMPLIFIER



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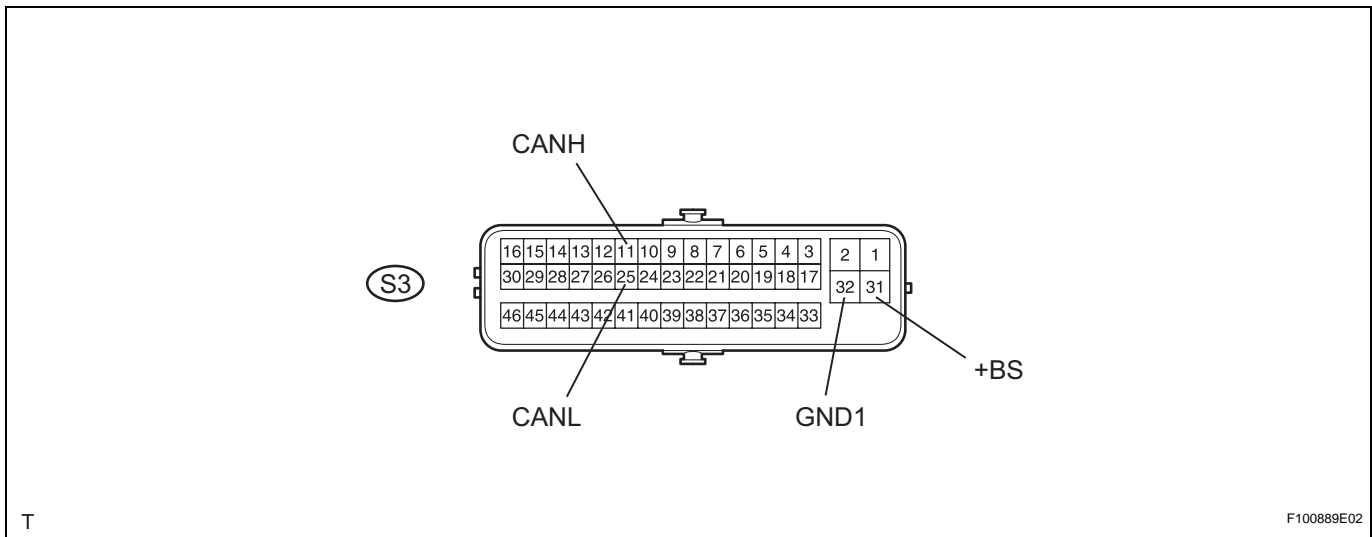
(a) Measure the resistance of the connector.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (A17-8) - CANL (A17-9)	B - W	Ignition switch OFF	54 to 69 Ω

- (b) Disconnect the A17 amplifier connector.
- (c) Measure the resistance of the wire harness side connector.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (A17-8) - CANL (A17-9)	B - W	Ignition switch OFF	108 to 132 Ω
CANH (A17-8) - GND (A17-24)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (A17-9) - GND (A17-24)	W - W-B	Ignition switch OFF	3 kΩ or higher
CANH (A17-8) - IG+ (A17-14)	B - L	Ignition switch OFF	1 MΩ or higher
CANL (A17-9) - IG+ (A17-14)	W - L	Ignition switch OFF	1 MΩ or higher

5. CHECK BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU WITH ACTUATOR)

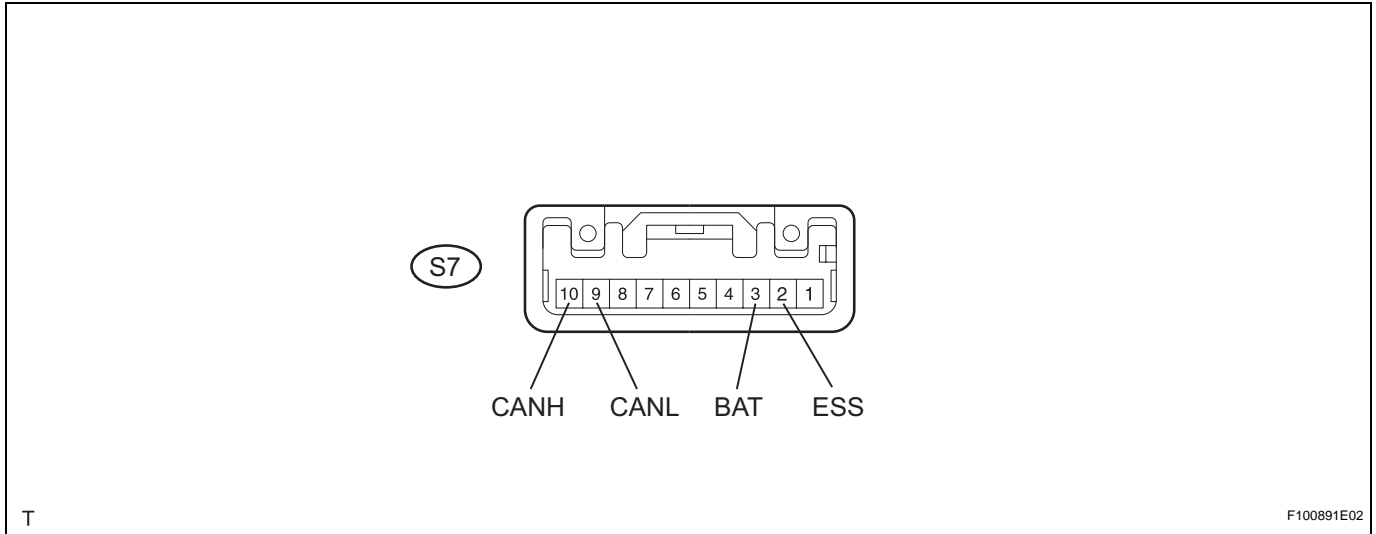


- (a) Disconnect the S3 ECU connector.
- (b) Measure the resistance of the wire harness side connector.

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Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (S3-11) - CANL (S3-25)	B - W	Ignition switch OFF	54 to 69 Ω
CANH (S3-11) - GND1 (S3-32)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (S3-25) - GND1 (S3-32)	W - W-B	Ignition switch OFF	3 kΩ or higher
CANH (S3-11) - +BS (S3-31)	B - B	Ignition switch OFF	1 MΩ or higher
CANL (S3-25) - +BS (S3-31)	W - B	Ignition switch OFF	1 MΩ or higher

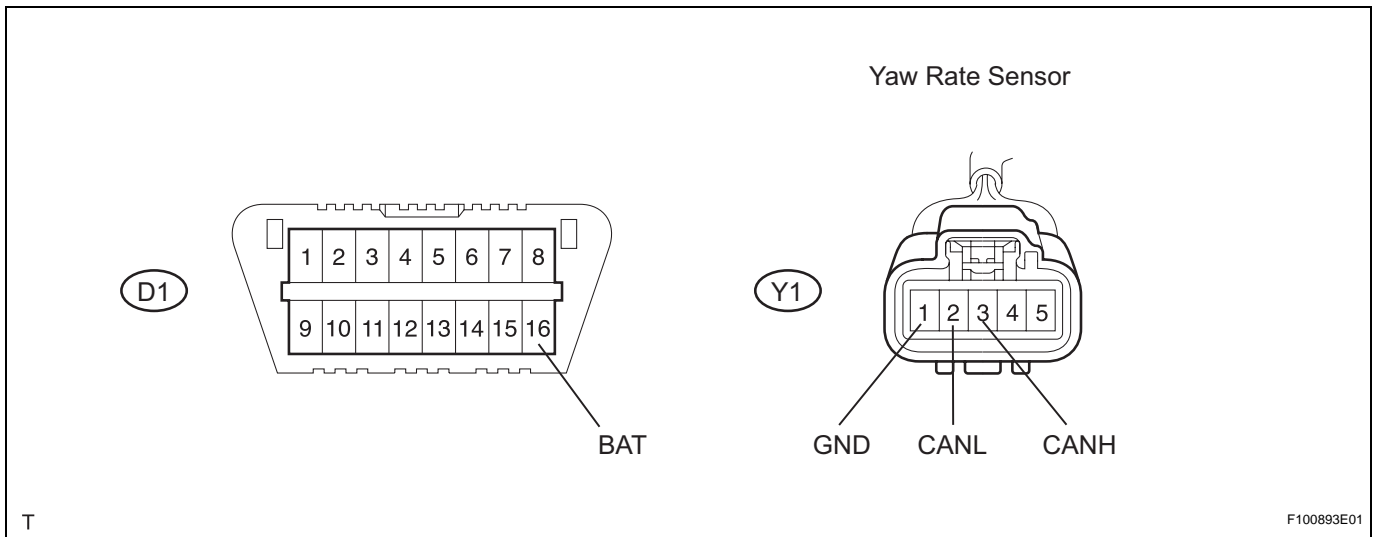
6. CHECK STEERING SENSOR



- (a) Disconnect the S7 sensor connector.
- (b) Measure the resistance of the wire harness side connector.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (S7-10) - CANL (S7-9)	B - W	Ignition switch OFF	54 to 69 Ω
CANH (S7-10) - ESS (S7-2)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (S7-9) - ESS (S7-2)	W - W-B	Ignition switch OFF	3 kΩ or higher
CANH (S7-10) - BAT (S7-3)	B - W-R	Ignition switch OFF	1 MΩ or higher
CANL (S7-9) - BAT (S7-3)	W - W-R	Ignition switch OFF	1 MΩ or higher

7. CHECK YAW RATE SENSOR



- (a) Disconnect the Y1 sensor connector.
- (b) Measure the resistance of the wire harness side connectors.

Symbols (Terminal No.)	Wiring Color	Condition	Specified Condition
CANH (Y1-3) - CANL (Y1-2)	B - W	Ignition switch OFF	54 to 69 Ω
CANH (Y1-3) - GND (Y1-1)	B - W-B	Ignition switch OFF	3 kΩ or higher
CANL (Y1-3) - GND (Y1-1)	W - W-B	Ignition switch OFF	3 kΩ or higher
CANH (Y1-3) - BAT (D1-16)	B - B-O	Ignition switch OFF	1 MΩ or higher
CANL (Y1-2) - BAT (D1-16)	W - B-O	Ignition switch OFF	1 MΩ or higher

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