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2001 LEXUS LS OEM Service and Repair Workshop Manual

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TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E55-10 (CAVH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
E55-11 (CAVL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher

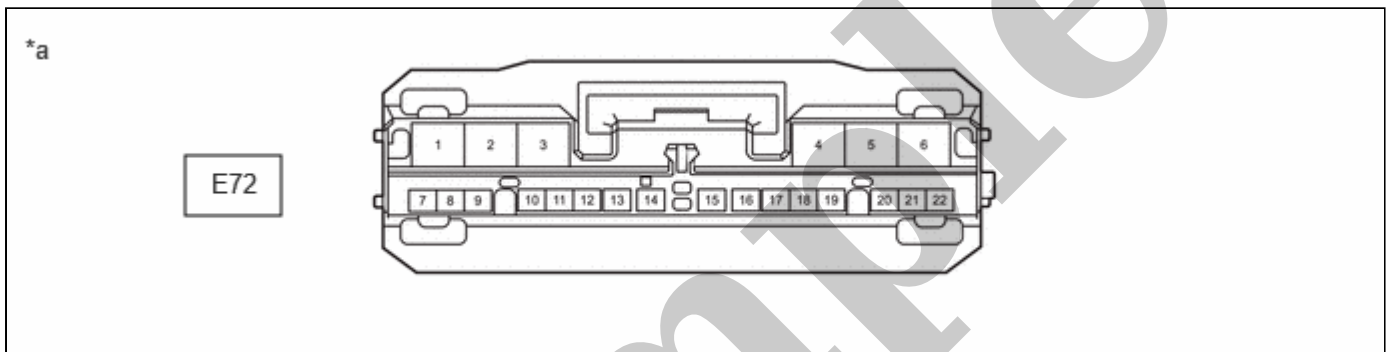
PARKING ASSIST ECU (w/o Parking Assist Monitor System)

Refer to Terminals of ECU.

w/ Panoramic View Monitor System: Click here [INFO](#)

w/ Multi-terrain Monitor System: Click here [INFO](#)

- Disconnect the cable from the negative (-) battery terminal.
- Disconnect the parking assist ECU connector.
- Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Parking Assist ECU)	-	-
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Standard Resistance:

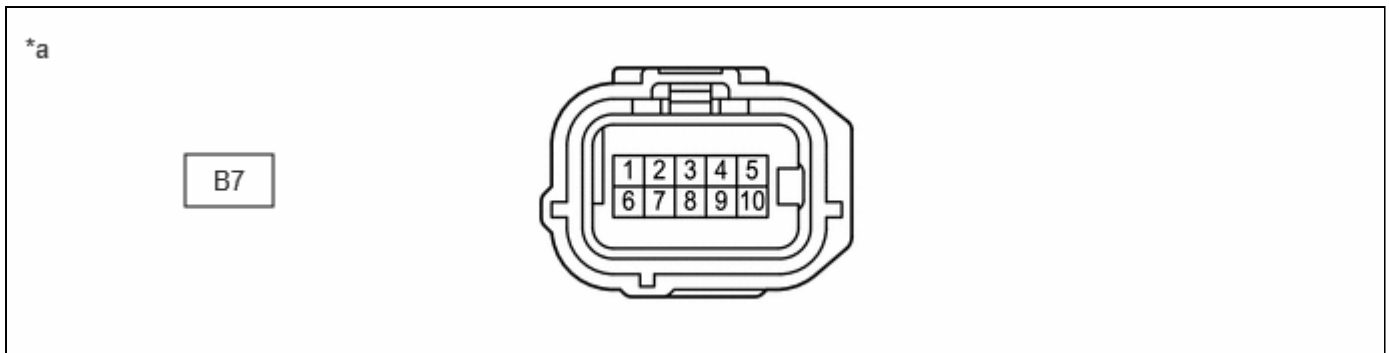
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E72-12 (CANH) - E72-13 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
E72-12 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E72-13 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E72-12 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
E72-13 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher

FORWARD RECOGNITION CAMERA

Refer to Terminals of ECU.

Click here [INFO](#)

- Disconnect the cable from the negative (-) battery terminal.
- Disconnect the forward recognition camera connector.
- Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Millimeter Wave Radar Sensor Assembly)	-	-
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Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
B7-4 (CA2H) - B7-3 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	108 to 132 Ω
B7-4 (CA2H) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
B7-3 (CA2L) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
B7-4 (CA2H) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
B7-3 (CA2L) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
B7-10 (CA3H) - B7-9 (CA3L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	108 to 132 Ω
B7-10 (CA3H) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
B7-9 (CA3L) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
B7-10 (CA3H) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
B7-9 (CA3L) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher

FRONT SIDE RADAR SENSOR (A)(w/ Front Side Radar Sensor System)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the front side radar sensor (A) connector.
- (c) Measure the resistance according to the value(s) in the table below.

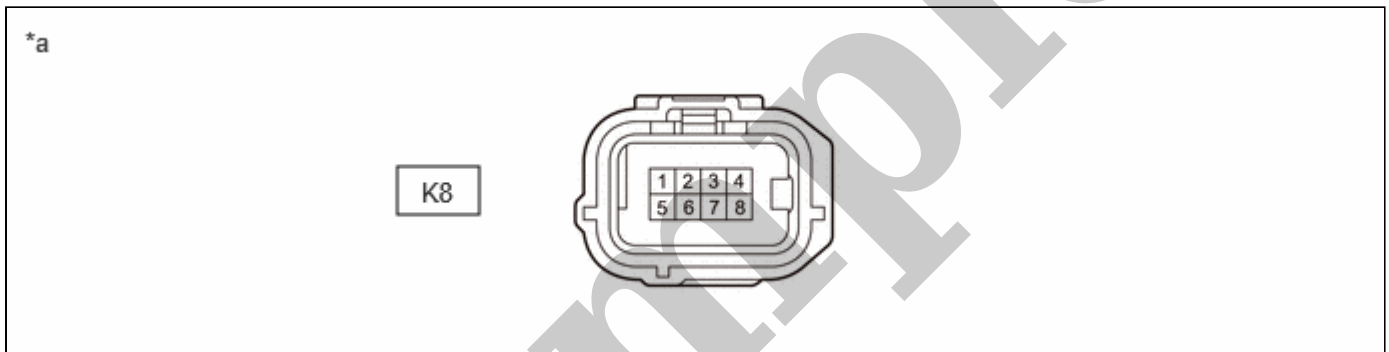
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E69-17 (R1) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E69-18 (R2) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E69-17 (R1) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
E69-18 (R2) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher

BLIND SPOT MONITOR SENSOR LH (B)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the blind spot monitor sensor LH (B) connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Blind Spot Monitor Sensor LH (B))	-	-
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Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K8-3 (CA1P) - K8-2 (CA1N)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
K8-3 (CA1P) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
K8-2 (CA1N) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
K8-3 (CA1P) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher
K8-2 (CA1N) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 k Ω or higher

REAR TELEVISION CAMERA ASSEMBLY (w/ Parking Assist Monitor System)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the rear television camera assembly connector.

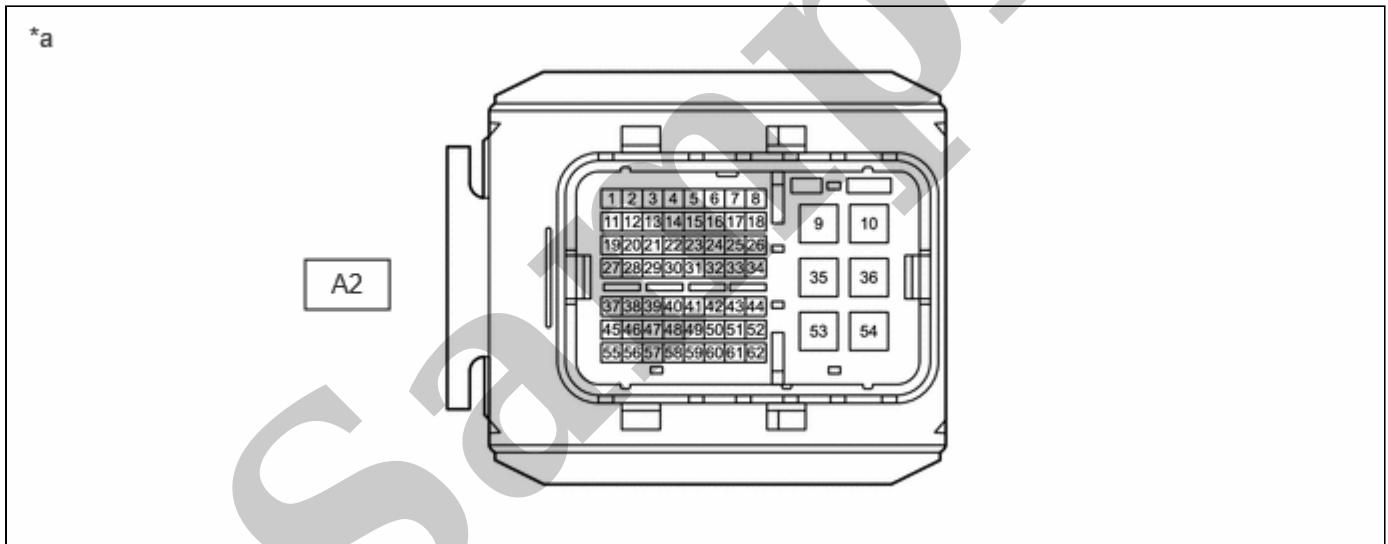
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
C99-20 (CANH) - C99-21 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
C99-20 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
C99-21 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
C99-20 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
C99-21 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

ECM

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the ECM connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to ECM)	-	-
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Standard Resistance:

Bus 2 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A2-18 (CANH) - A2-17 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	108 to 132 Ω
A2-18 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
A2-17 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
A2-18 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

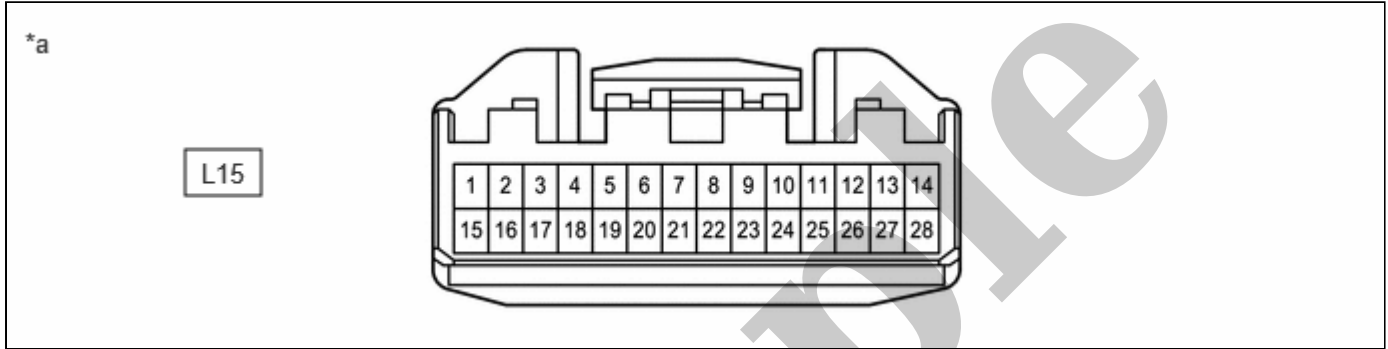
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E15-13 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
E15-14 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

STEREO COMPONENT EQUALIZER ASSEMBLY

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the stereo component equalizer assembly connector.



*a	Front view of wire harness connector (to Stereo Component Equalizer Assembly)	-	-
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- (c) Measure the resistance according to the value(s) in the table below.
- Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
L15-1 (CANH) - L15-15 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
L15-1 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
L15-15 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
L15-1 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
L15-15 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

DCM (TELEMATICS TRANSCEIVER) (w/ Telematics System)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the DCM (telematics transceiver) connector.
- (c) Measure the resistance according to the value(s) in the table below.

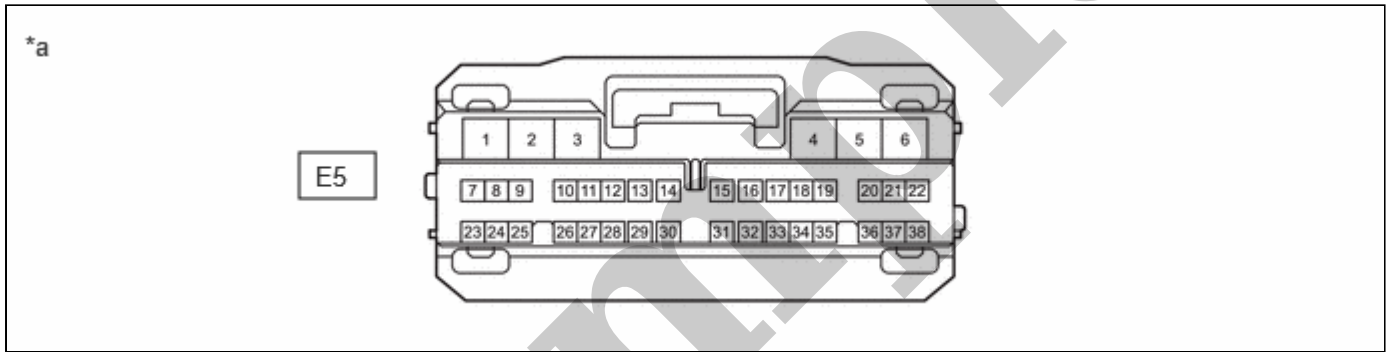
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E117-5 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E117-6 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E117-5 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
E117-6 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

COMBINATION METER ASSEMBLY

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the combination meter assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Combination Meter Assembly)	-	-
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Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E5-31 (CANH) - E5-14 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	108 to 132 Ω
E5-31 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E5-14 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E5-31 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
E5-14 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

STEERING SENSOR

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the steering sensor connector.

	(to Airbag ECU Assembly)		
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Standard Resistance:

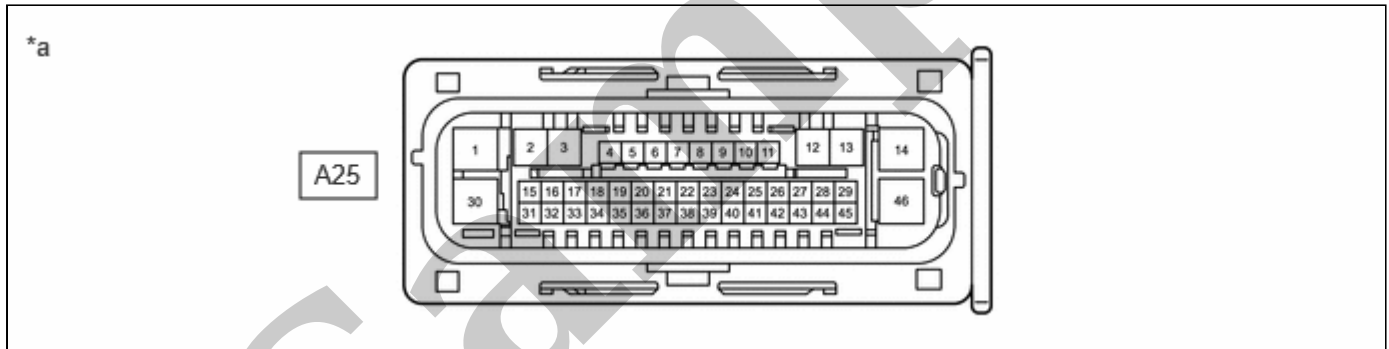
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E41-26 (CAFH) - E41-27 (CAFL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
E41-26 (CAFH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E41-27 (CAFL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E41-26 (CAFH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
E41-27 (CAFL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the brake actuator assembly (skid control ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Brake Actuator Assembly (Skid Control ECU))	-	-
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Standard Resistance:

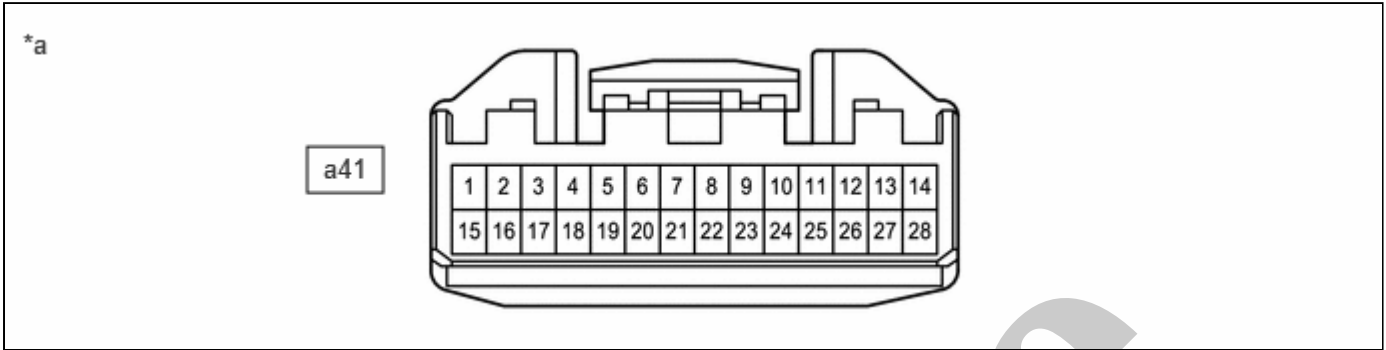
Bus 4 Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A25-27 (CANH) - A25-43 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
A25-27 (CANH) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
A25-43 (CANL) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
A25-27 (CANH) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
A25-43 (CANL) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the position control ECU assembly LH (for Front Seat) connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Position Control ECU Assembly LH (for Front Seat))	-	-	
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Standard Resistance:

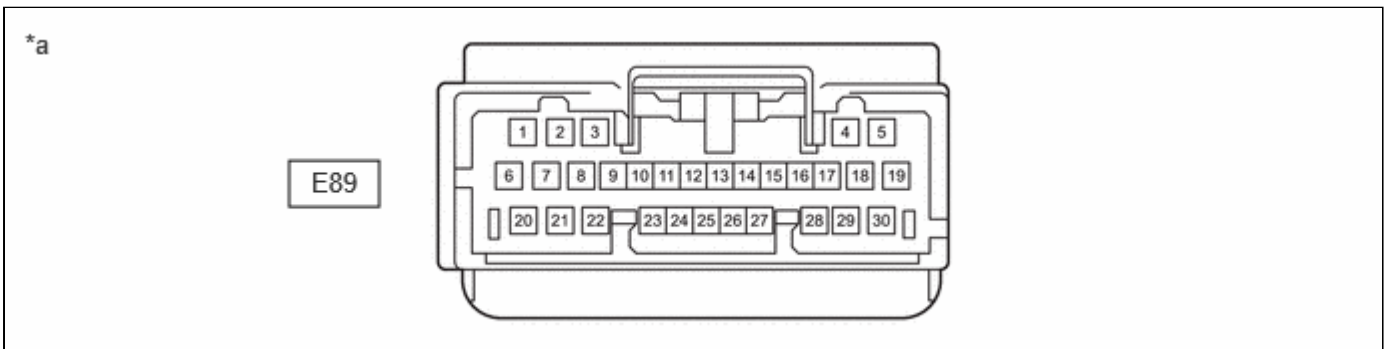
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
a41-13 (CANP) - a41-14 (CANN)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
a41-13 (CANP) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
a41-14 (CANN) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
a41-13 (CANP) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
a41-14 (CANN) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the certification ECU (smart key ECU assembly) connector.
- (c) Measure the resistance according to the value(s) in the table below.



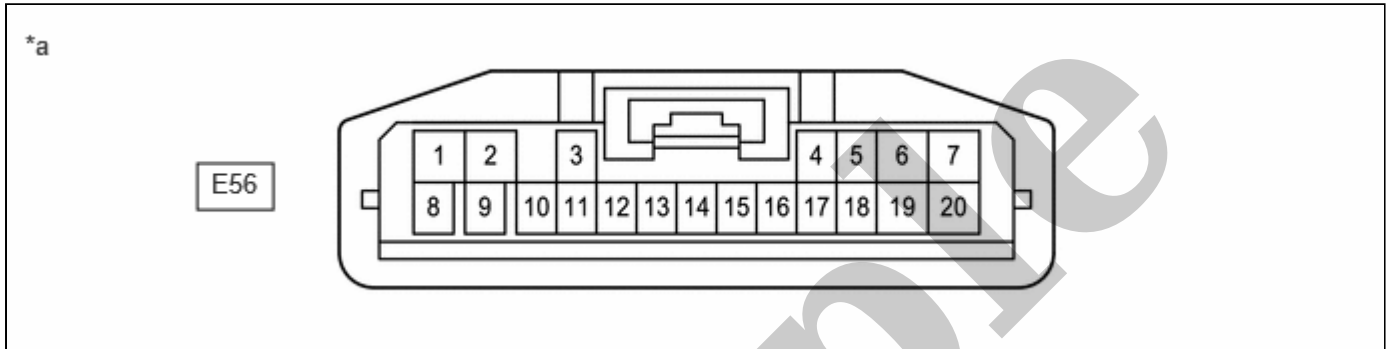
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
a20-14 (CANN) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

MULTIPLEX TILT AND TELESCOPIC ECU (w/ Power Tilt and Power Telexopic Steering System)

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the multiplex tilt and telescopic ECU connector.
- (c) Measure the resistance according to the value(s) in the table below.



*a	Front view of wire harness connector (to Multiplex Tilt and Telescopic ECU)	-	-
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Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
E56-3 (CANP) - E56-11 (CANN)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) battery terminal	54 to 69 Ω
E56-3 (CANP) - Body ground	HIGH-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E56-11 (CANN) - Body ground	LOW-level CAN bus line - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E56-3 (CANP) - Positive (+) battery terminal	HIGH-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher
E56-11 (CANN) - Positive (+) battery terminal	LOW-level CAN bus line - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

MULTIPLEX NETWORK DOOR ECU

Refer to Terminals of ECU.

Click here [INFO](#)

- (a) Disconnect the cable from the negative (-) battery terminal.
- (b) Disconnect the multiplex network door ECU connector.
- (c) Measure the resistance according to the value(s) in the table below.