Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029GTG
Model Year Start: 2023	**Model:** Prius	**Prod Date Range:** [12/2022 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): TERMINALS OF ECU; 2023 - 2024 MY Prius [12/2022 -]		

TERMINALS OF ECU

NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

  Click here INFO
- When disconnecting and reconnecting the auxiliary battery.

  HINT:

  When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

  Click here INFO
- Before measuring the resistance of the CAN bus, turn the ignition switch off and leave the vehicle for 1 minute or more without operating the key or any switches, or opening or closing the doors. After that, disconnect the cable from the negative (-) auxiliary battery terminal and leave the vehicle for 10 minutes or more before measuring the resistance.
- This section describes the standard values for all CAN related components.

HINT:

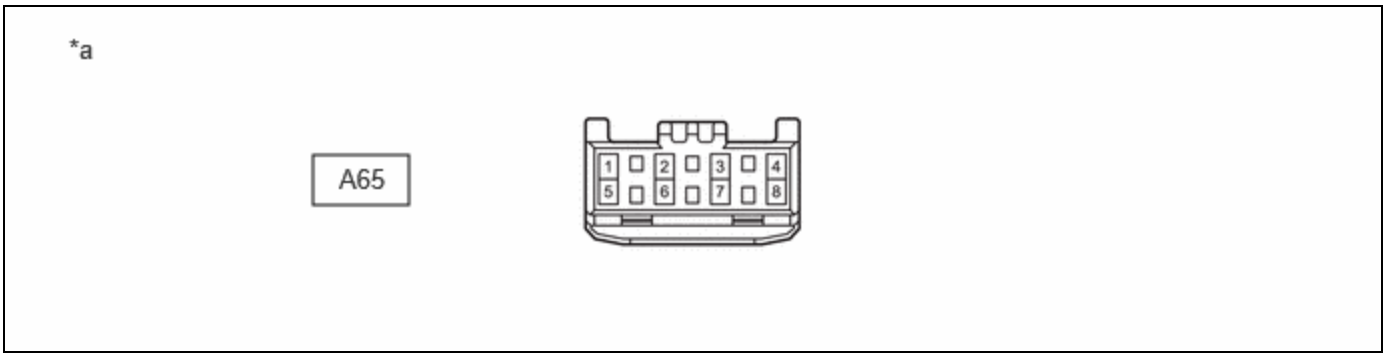
- The systems (ECUs and sensors) that use CAN communication vary depending on the vehicle and optional equipment. Check which systems (ECUs and sensors) are installed to the vehicle.

  Click here INFO
- Operating the ignition switch, any other switches or a door triggers related ECU and sensor communication on the CAN. This communication will cause the resistance value to change.
- Even after DTCs are cleared, if a DTC is stored again after driving the vehicle for a while, the malfunction may be occurring due to vibration of the vehicle. In such a case, wiggling the ECUs or wire harness while performing the inspection below may help determine the cause of the malfunction.

NO. 2 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 2 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 2 Global CAN Junction Connector)	-	-

(2) Check the connection diagram of the components which are connected to the No. 2 global CAN junction connector.

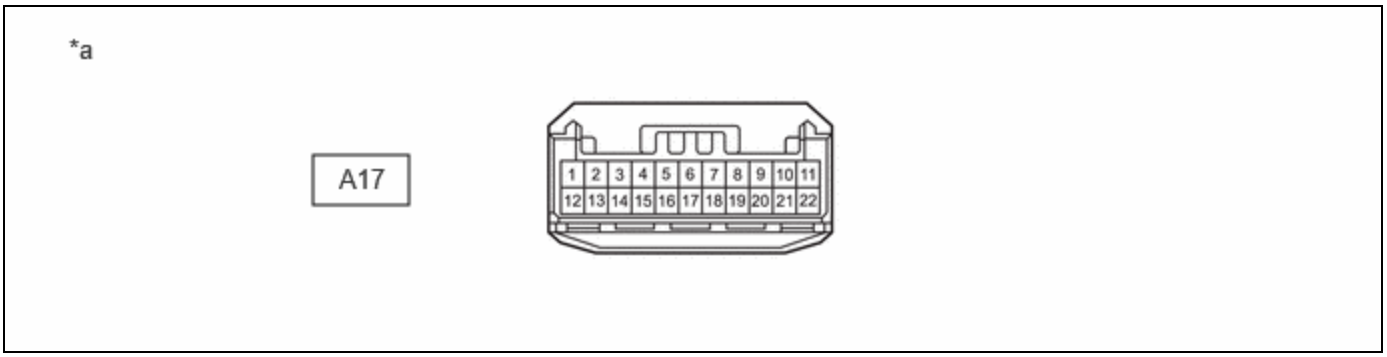
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
A65-1 (CANH)	LG	No. 11 global CAN junction connector (for Bus 1)
A65-5 (CANL)	W	
A65-2 (CANH)	L	Front side radar sensor (A)* (for Bus 1)
A65-6 (CANL)	W	
A65-3 (CANH)	R	Millimeter wave radar sensor assembly (for Bus 1)
A65-7 (CANL)	W	

*: w/ Front Side Radar Sensor System

NO. 3 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 3 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 3 Global CAN Junction Connector)	-	-

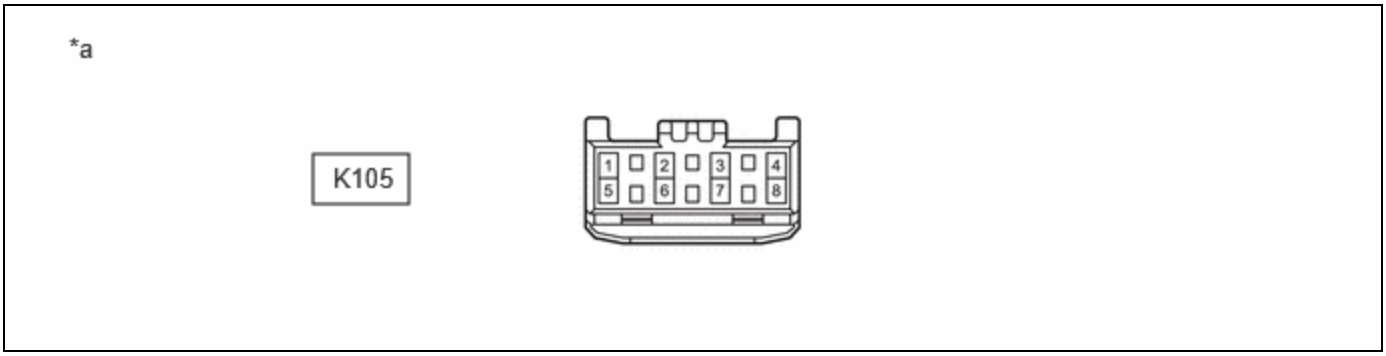
(2) Check the connection diagram of the components which are connected to the No. 3 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
A17-1 (CANH)	G	No. 2 skid control ECU (brake actuator assembly) (for Bus 4)
A17-12 (CANL)	W	
A17-2 (CANH)	L	No. 1 skid control ECU (brake booster with master cylinder assembly) (for Bus 4)
A17-13 (CANL)	W	
A17-3 (CANH)	B	No. 4 global CAN junction connector (for Bus 4)
A17-14 (CANL)	W	

NO. 4 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 4 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 4 Global CAN Junction Connector)	-	-

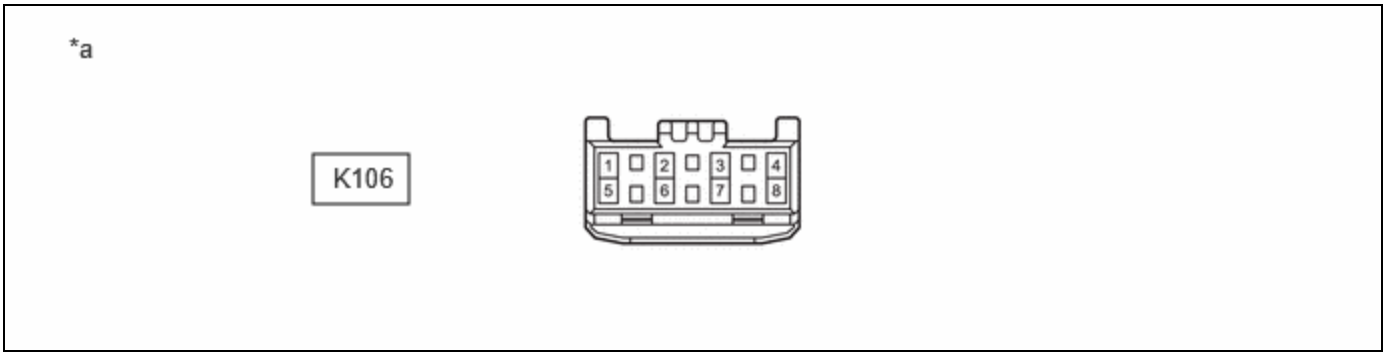
(2) Check the connection diagram of the components which are connected to the No. 4 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K105-1 (CANH)	R	Airbag ECU assembly (for Bus 4)
K105-5 (CANL)	W	
K105-2 (CANH)	B	No. 3 global CAN junction connector (for Bus 4)
K105-6 (CANL)	W	
K105-3 (CANH)	LG	Steering sensor (for Bus 4)
K105-7 (CANL)	W	
K105-4 (CANH)	G	Power steering ECU assembly (for Bus 4)
K105-8 (CANL)	W	

NO. 5 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 5 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 5 Global CAN Junction Connector)	-	-

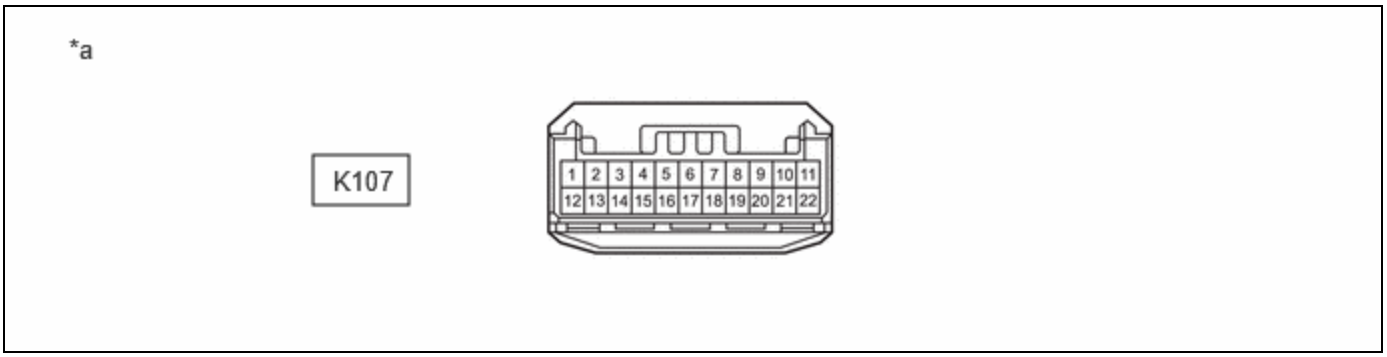
(2) Check the connection diagram of the components which are connected to the No. 5 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K106-1 (CANH)	R	Hybrid vehicle control ECU (for Bus 2)
K106-5 (CANL)	W	
K106-2 (CANH)	L	Transmission floor shift assembly (for Bus 2)
K106-6 (CANL)	W	
K106-3 (CANH)	LG	Inverter with converter assembly (for Bus 2)
K106-7 (CANL)	W	
K106-4 (CANH)	BR	Battery ECU assembly (for Bus 2)
K106-8 (CANL)	W	

NO. 6 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 6 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 6 Global CAN Junction Connector)	-	-

(2) Check the connection diagram of the components which are connected to the No. 6 global CAN junction connector.

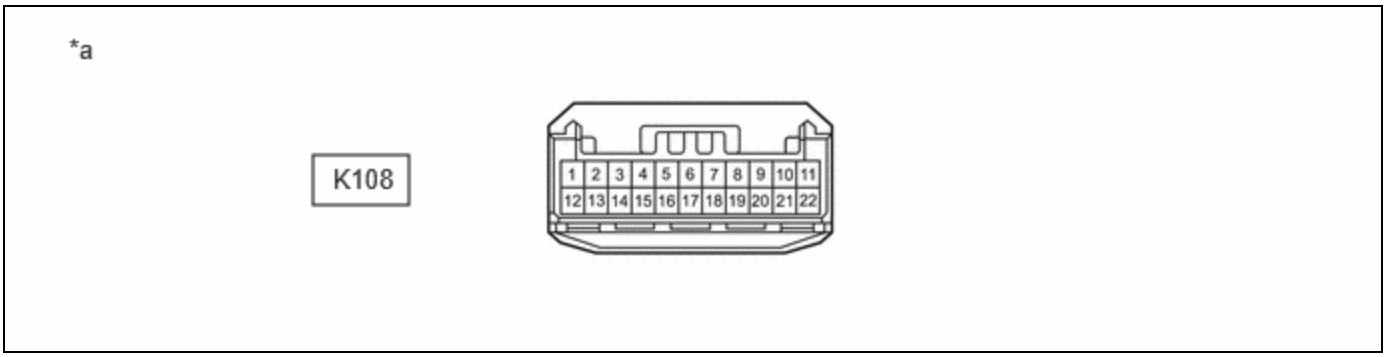
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K107-1 (CANH)	LG	Transmission floor shift assembly (for Battery Local Bus)
K107-12 (CANL)	W	
K107-2 (CANH)	B	No. 2 junction connector (for Battery Local Bus)
K107-13 (CANL)	W	
K107-3 (CANH)	P	Battery ECU assembly (for Battery Local Bus)
K107-14 (CANL)	W	
K107-7 (CANH)	R	Certification ECU (smart key ECU assembly) (for Bus 5)
K107-18 (CANL)	W	
K107-8 (CANH)	L	Air conditioning amplifier assembly (for Bus 5)
K107-19 (CANL)	W	
K107-9 (CANH)	V	Central gateway ECU (network gateway ECU) (for Bus 5)

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K107-20 (CANL)	W	
K107-10 (CANH)	G	No. 14 global CAN junction connector (for Bus 5)
K107-21 (CANL)	W	

NO. 7 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 7 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 7 Global CAN Junction Connector)	-	-

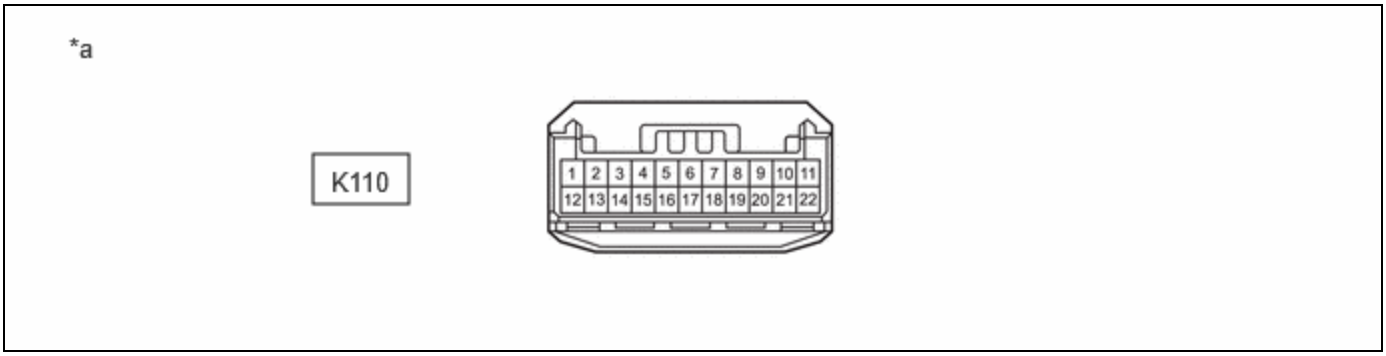
(2) Check the connection diagram of the components which are connected to the No. 7 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K108-1 (CANH)	L	Integration control supply (for Bus 6)
K108-12 (CANL)	W	
K108-2 (CANH)	G	Vehicle approaching speaker controller (for Bus 6)
K108-13 (CANL)	W	
K108-3 (CANH)	LG	Central gateway ECU (network gateway ECU) (for Bus 6)
K108-14 (CANL)	W	
K108-4 (CANH)	P	No. 13 global CAN junction connector (for Bus 6)
K108-15 (CANL)	W	
K108-5 (CANH)	L	Tire pressure warning ECU and receiver (for Bus 6)
K108-16 (CANL)	W	

NO. 10 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 10 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 10 Global CAN Junction Connector)	-	-

(2) Check the connection diagram of the components which are connected to the No. 10 global CAN junction connector.

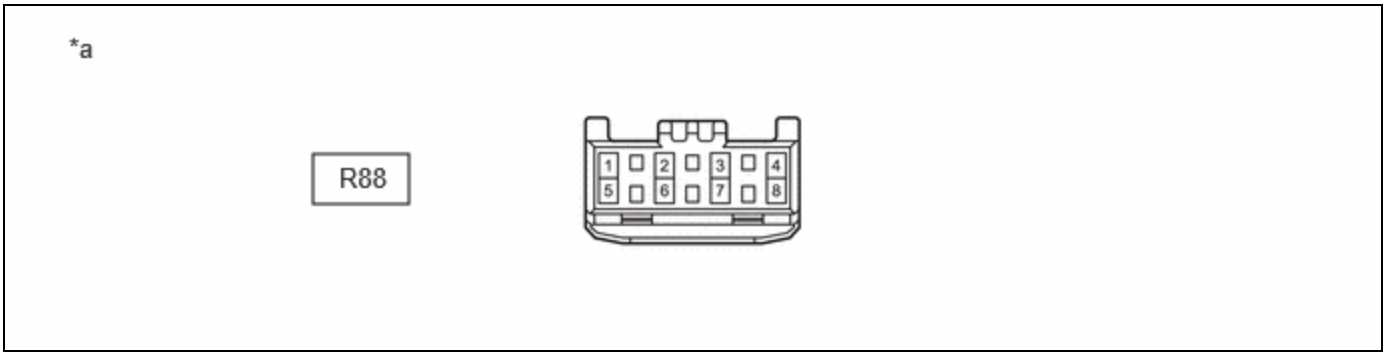
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
K110-1 (CANH)	L	Radio and display receiver assembly (for Bus 3)
K110-12 (CANL)	W	
K110-2 (CANH)	GR	DCM(telematics transceiver)*1 (for Bus 3)
K110-13 (CANL)	W	
K110-3 (CANH)	V	Combination meter assembly (for Bus 3)
K110-14 (CANL)	W	
K110-4 (CANH)	G	Central gateway ECU (network gateway ECU) (for Bus 3)
K110-15 (CANL)	W	
K110-6 (CANH)	R	Inner rear view mirror assembly*2 (for Bus 3)
K110-17 (CANL)	W	

- *1: w/ Telematics Transceiver
- *2: w/ Digital Inner Mirror System

NO. 11 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 11 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector	-	-

	(to No. 11 Global CAN Junction Connector)		

(2) Check the connection diagram of the components which are connected to the No. 11 global CAN junction connector.

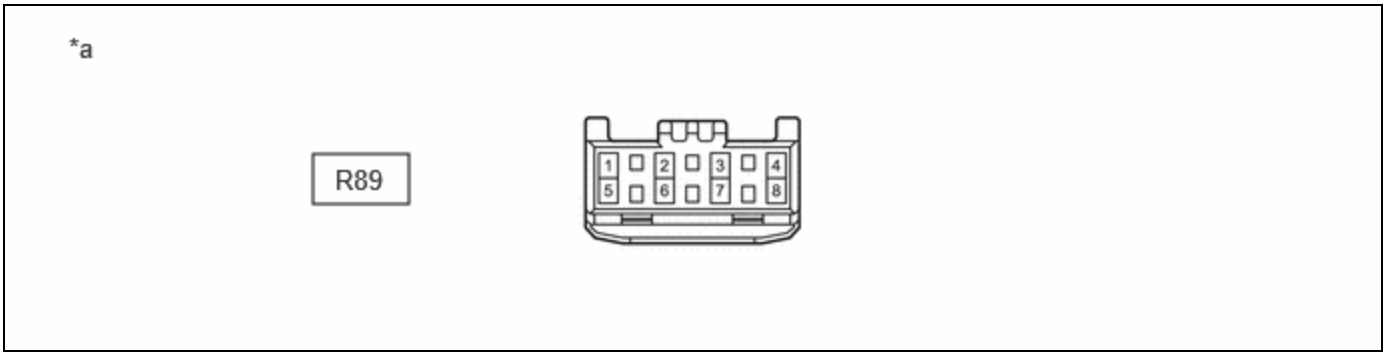
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R88-1 (CANH)	LG	No. 2 global CAN junction connector (for Bus 1)
R88-5 (CANL)	W	
R88-2 (CANH)	R	Blind spot monitor sensor LH (B) (for Bus 1)
R88-6 (CANL)	W	
R88-3 (CANH)	GR	No. 16 global CAN junction connector*1 (for Bus 1)
R88-7 (CANL)	W	
R88-4 (CANH)	L	No. 2 CAN junction terminal*2 (for Bus 1)
R88-8 (CANL)	W	

- *1: w/ Parking Assist Monitor System
- *2: w/o Parking Assist Monitor System

NO. 12 GLOBAL CAN JUNCTION CONNECTOR (w/ Panoramic View Monitor System)

(a) Check the No. 12 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 12 Global CAN Junction Connector)	-	-

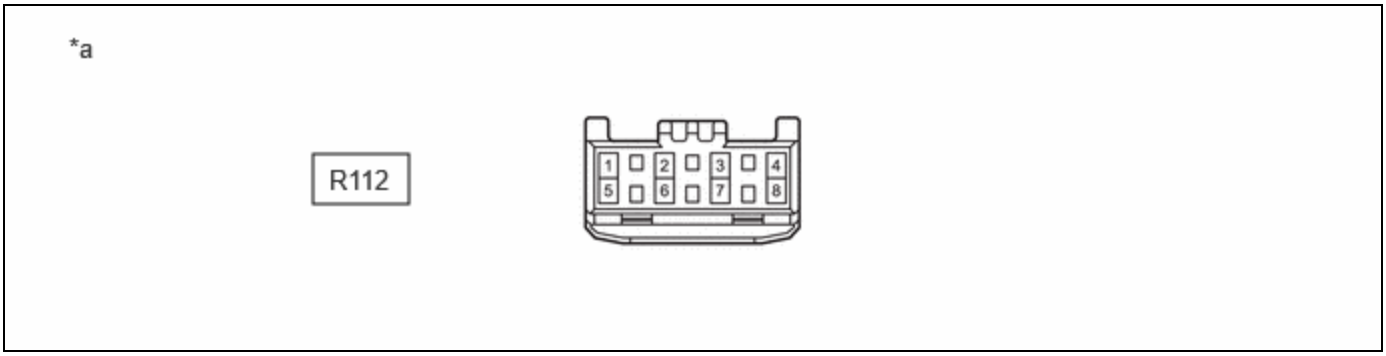
(2) Check the connection diagram of the components which are connected to the No. 12 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R89-1 (CANH)	G	Parking assist ECU (for Bus 1)
R89-5 (CANL)	W	
R89-2 (CANH)	R	Forward recognition camera (for Bus 1)
R89-6 (CANL)	W	
R89-3 (CANH)	B	No. 15 global CAN junction connector (for Bus 1)
R89-7 (CANL)	W	

NO. 13 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 13 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 13 Global CAN Junction Connector)	-	-

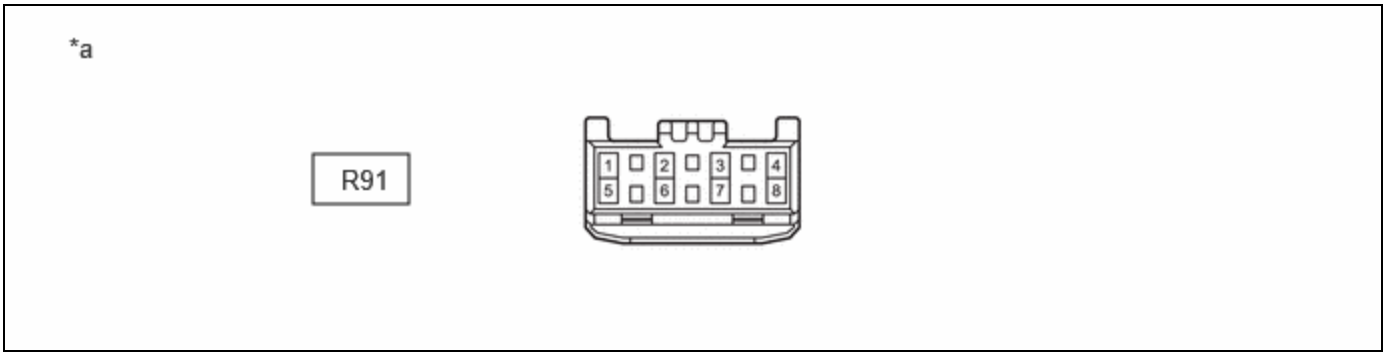
(2) Check the connection diagram of the components which are connected to the No. 13 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R112-1 (CANH)	G	No. 7 global CAN junction connector (for Bus 6)
R112-5 (CANL)	W	
R112-2 (CANH)	R	Central gateway ECU (network gateway ECU) (for Bus 6)
R112-6 (CANL)	W	

NO. 14 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 14 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 14 Global CAN Junction Connector)	-	-

(2) Check the connection diagram of the components which are connected to the No. 14 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R91-1 (CANH)	L	Position control ECU assembly LH*1

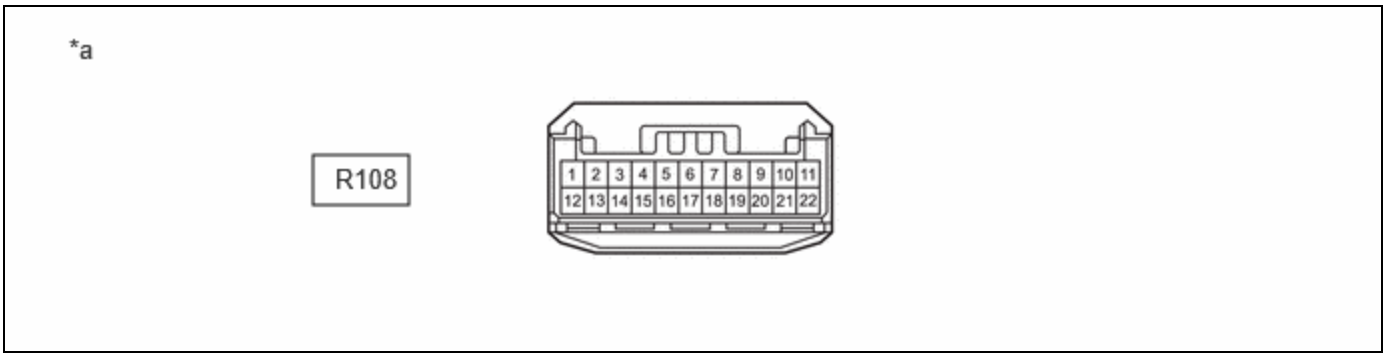
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R91-5 (CANL)	W	(for Bus 5)
R91-2 (CANH)	V	Multiplex network door ECU*2 (for Bus 5)
R91-6 (CANL)	W	
R91-3 (CANH)	G	No. 6 global CAN junction connector (for Bus 5)
R91-7 (CANL)	W	
R91-4 (CANH)	R	Main body ECU (multiplex network body ECU) (for Bus 5)
R91-8 (CANL)	W	

- *1: w/ Seat Position Memory System
- *2: w/ Power Back Door System

NO. 15 GLOBAL CAN JUNCTION CONNECTOR

(a) Check the No. 15 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 15 Global CAN Junction Connector)	-	-

(2) Check the connection diagram of the components which are connected to the No. 15 global CAN junction connector.

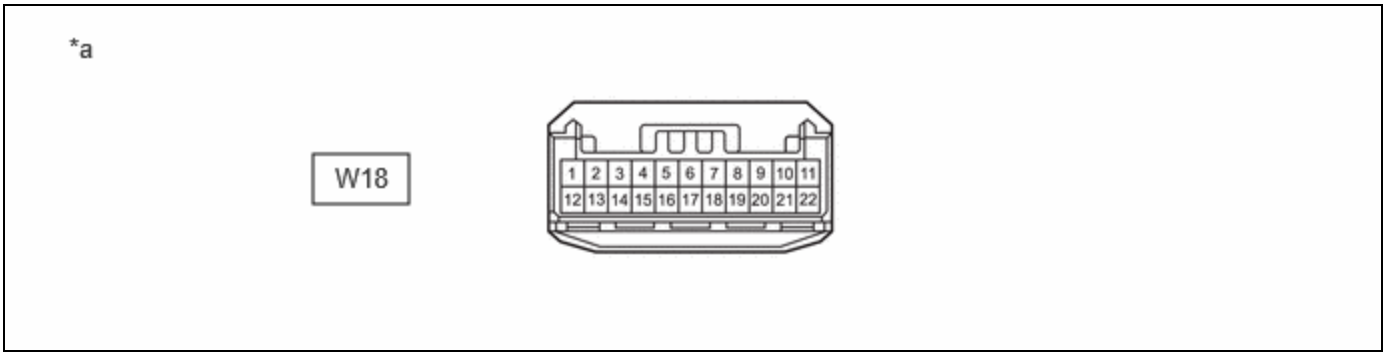
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R108-1 (CANH)	B	Central gateway ECU (network gateway ECU) (for Bus 1)
R108-12 (CANL)	W	
R108-2 (CANH)	L	Clearance warning ECU assembly*1 (for Bus 1)
R108-13 (CANL)	W	
R108-3 (CANH)	SB	Forward recognition camera*2 (for Bus 1)
R108-14 (CANL)	W	
R108-4 (CANH)	B	No. 12 global CAN junction connector*3 (for Bus 1)
R108-15 (CANL)	W	

- *1: w/ Intuitive Parking Assist System
- *2: w/o Panoramic View Monitor System
- *3: w/ Panoramic View Monitor System

NO. 16 GLOBAL CAN JUNCTION CONNECTOR (w/ Parking Assist Monitor System)

(a) Check the No. 16 global CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 16 Global CAN Junction Connector)	-	-

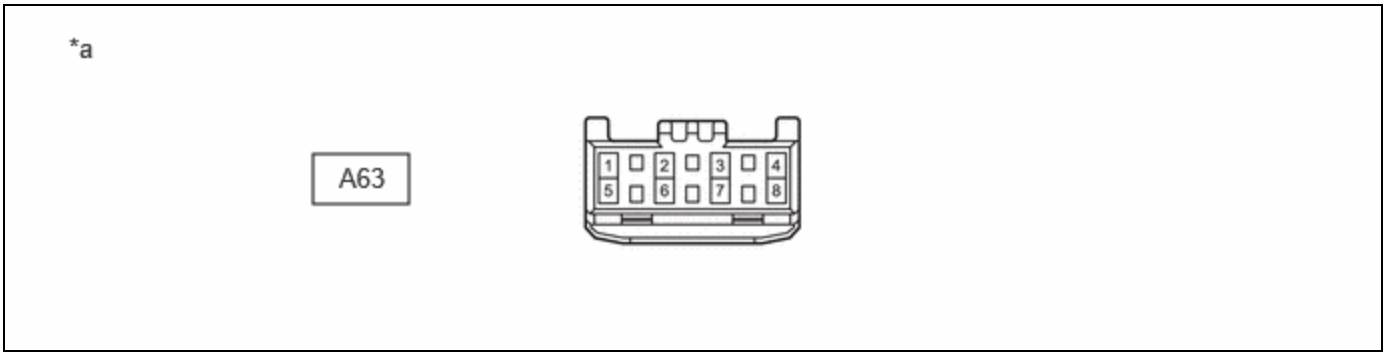
(2) Check the connection diagram of the components which are connected to the No. 16 global CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
W18-5 (CANH)	LG	Rear television camera assembly (for Bus 1)
W18-16 (CANL)	W	
W18-6 (CANH)	L	No. 11 global CAN junction connector (for Bus 1)
W18-17 (CANL)	W	
W18-7 (CANH)	P	No. 2 CAN junction terminal (for Bus 1)
W18-18 (CANL)	W	

NO. 1 CAN JUNCTION CONNECTOR

(a) Check the No. 1 CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 1 CAN Junction Connector)	-	-

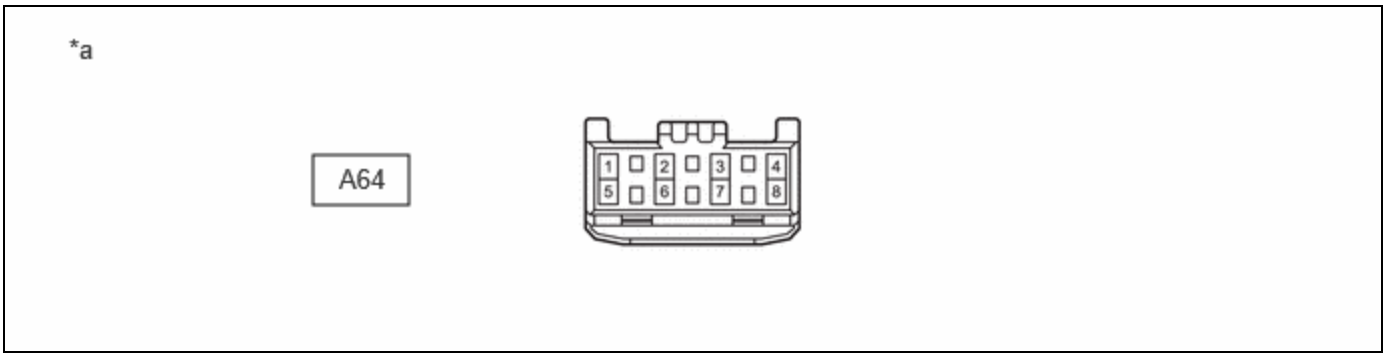
(2) Check the connection diagram of the components which are connected to the No. 1 CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
A63-1 (CANH)	BE	No. 1 skid control ECU (brake booster with master cylinder assembly) (for Powertrain Local Bus)
A63-5 (CANL)	W	
A63-2 (CANH)	P	Hybrid vehicle control ECU (for Powertrain Local Bus)
A63-6 (CANL)	W	
A63-3 (CANH)	L	No. 2 CAN junction connector (for Powertrain Local Bus)
A63-7 (CANL)	W	

NO. 2 CAN JUNCTION CONNECTOR

(a) Check the No. 2 CAN junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 2 CAN Junction Connector)	-	-

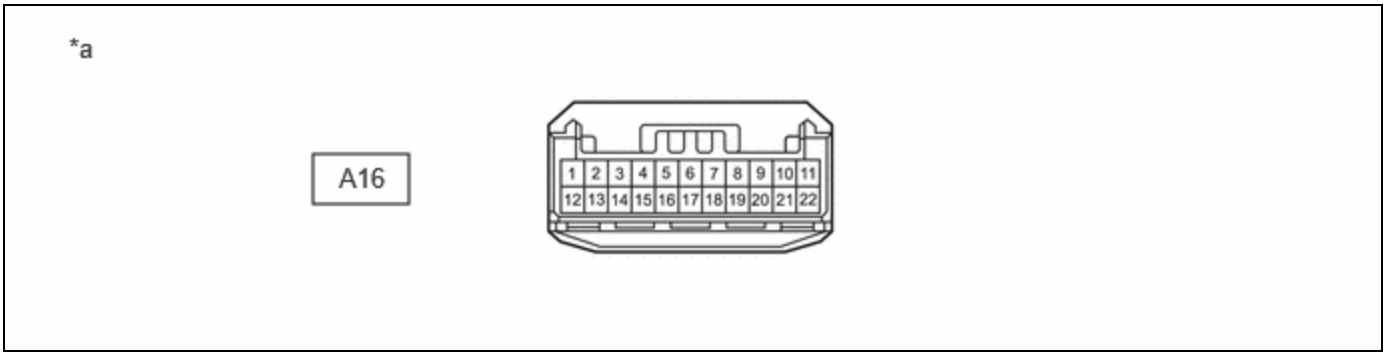
(2) Check the connection diagram of the components which are connected to the No. 2 CAN junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
A64-1 (CANH)	G	Inverter with converter assembly (for Powertrain Local Bus)
A64-5 (CANL)	W	
A64-2 (CANH)	V	No. 2 skid control ECU (brake actuator assembly) (for Powertrain Local Bus)
A64-6 (CANL)	W	
A64-3 (CANH)	B	ECM (for Powertrain Local Bus)
A64-7 (CANL)	W	
A64-4 (CANH)	L	No. 1 CAN junction connector (for Powertrain Local Bus)
A64-8 (CANL)	W	

NO. 2 JUNCTION CONNECTOR

(a) Check the No. 2 junction connector.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 2 Junction Connector)	-	-

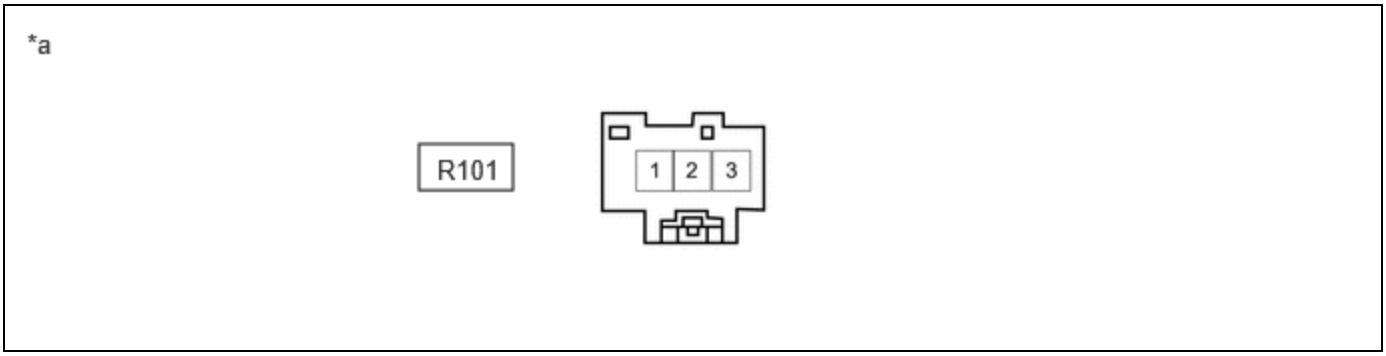
(2) Check the connection diagram of the components which are connected to the No. 2 junction connector.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
A16-1 (CANH)	G	Shift control actuator assembly (for Battery Local Bus)
A16-12 (CANL)	W	
A16-2 (CANH)	SB	Hybrid vehicle control ECU (for Battery Local Bus)
A16-13 (CANL)	W	
A16-3 (CANH)	R	Inverter with converter assembly (for Battery Local Bus)
A16-14 (CANL)	W	
A16-4 (CANH)	B	No. 6 global CAN junction connector (for Battery Local Bus)
A16-15 (CANL)	W	

NO. 2 CAN JUNCTION TERMINAL

(a) Check the No. 2 CAN junction terminal.

(1) Connection diagram



*a	Front view of wire harness connector (to No. 2 CAN Junction Terminal)	-	-

(2) Check the connection diagram of the components which are connected to the No. 2 CAN junction terminal.

TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R101-3 (CANH)	L	No. 11 global CAN junction connector*1 (for Bus 1)
R101-2 (CANL)	W	
R101-3 (CANH)	L	No. 16 global CAN junction connector*2

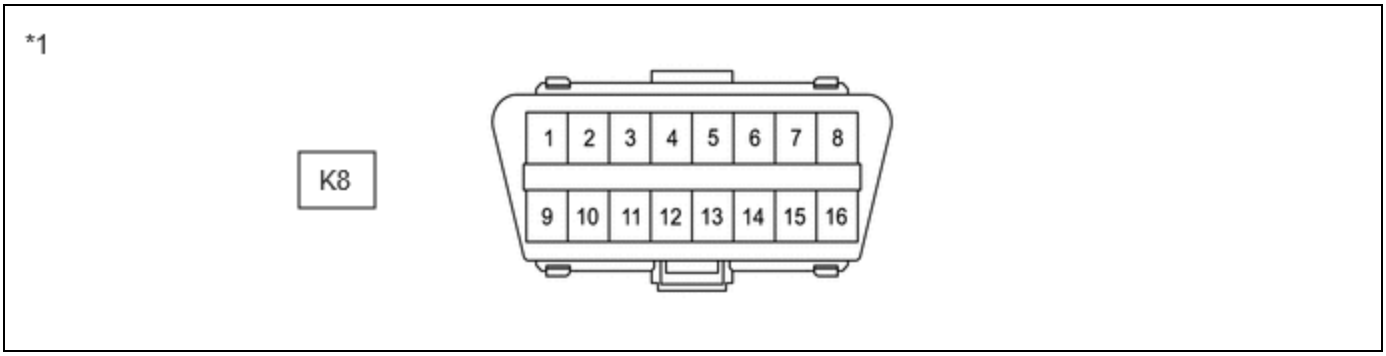
TERMINAL NO. (SYMBOL)	WIRING COLOR	CONNECTED TO
R101-2 (CANL)	W	(for Bus 1)

- *1: w/o Parking Assist Monitor System
- *2: w/ Parking Assist Monitor System

DLC3

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

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

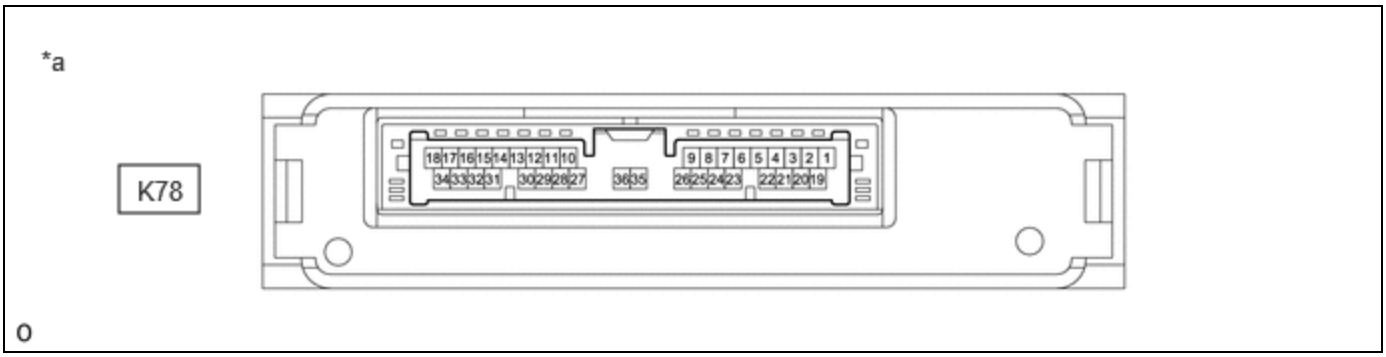


*1	DLC3	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K8-6 (CANH) - K8-14 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K8-6 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K8-14 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K8-6 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K8-14 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)



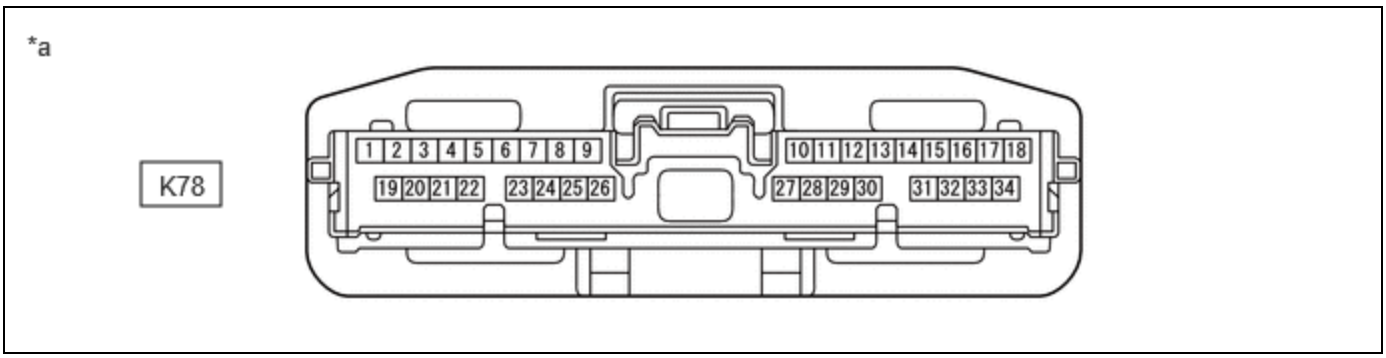
*a	Component without harness connected	-	-

	(Central Gateway ECU (Network Gateway ECU))		

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K78 central gateway ECU (network gateway ECU) connector.

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



*a	Front view of wire harness connector (to Central Gateway ECU (Network Gateway ECU))	-	-

Standard Resistance:

Diagnosis Bus Branch Lines (DLC3 - Central gateway ECU (network gateway ECU))

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-16 (CA6H) - K78-17 (CA6L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	1 MΩ or higher
K78-16 (CA6H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-17 (CA6L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-16 (CA6H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-17 (CA6L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 1 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K78-27 (CA1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K78-28 (CA1H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-27 (CA1L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-28 (CA1H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-27 (CA1L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 2 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-26 (CA4H) - K78-25 (CA4L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K78-26 (CA4H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-25 (CA4L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-26 (CA4H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-25 (CA4L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 3 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-30 (CA3H) - K78-29 (CA3L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K78-30 (CA3H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-29 (CA3L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-30 (CA3H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-29 (CA3L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 4 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-24 (CA2H) - K78-23 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K78-24 (CA2H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-23 (CA2L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-24 (CA2H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-23 (CA2L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 5 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-7 (CA5H) - K78-8 (CA5L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K78-7 (CA5H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-8 (CA5L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-7 (CA5H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-8 (CA5L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 6 Main Lines

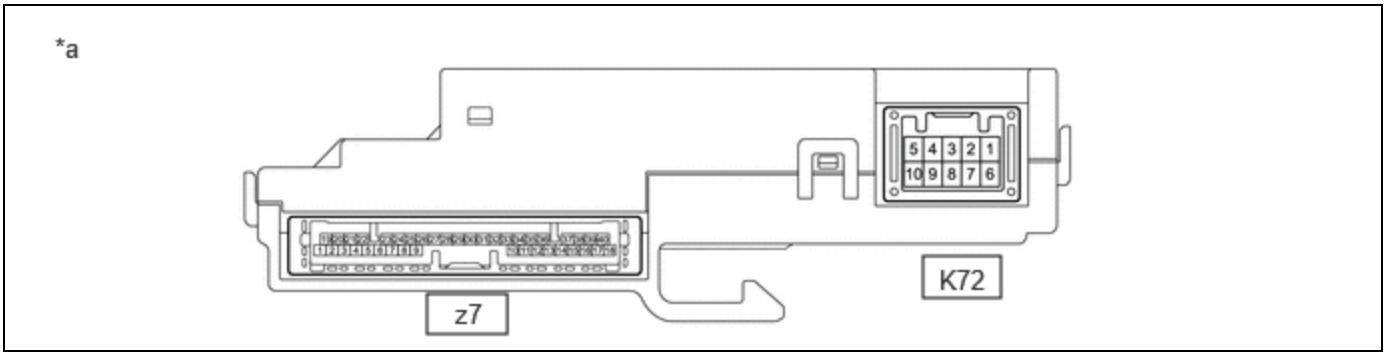
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-31 (CA7H) - K78-10 (CAVH)	HIGH-level CAN bus line - HIGH-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω
K78-32 (CA7L) - K78-11 (CAVL)	LOW-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω
K78-31 (CA7H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-32 (CA7L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-31 (CA7H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-32 (CA7L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Bus 7 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-5 (CA8H) - K78-6 (CA8L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K78-5 (CA8H) - K78-22 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-6 (CA8L) - K78-22 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-5 (CA8H) - K78-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K78-6 (CA8L) - K78-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

STEERING SENSOR

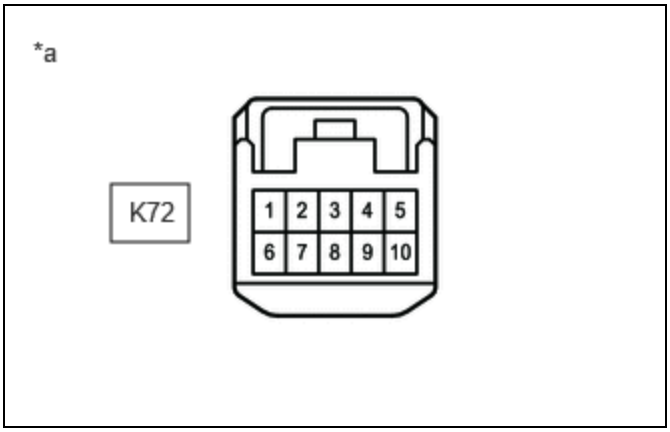


*a	Component without harness connected (Steering Sensor)	-	-

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K72 steering sensor connector.

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



*a	Front view of wire harness connector (to Steering Sensor)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K72-3 (CANH) - K72-8 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K72-3 (CANH) - K72-6 (ESS)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K72-8 (CANL) - K72-6 (ESS)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K72-3 (CANH) - K72-4 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K72-8 (CANL) - K72-4 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

HYBRID VEHICLE CONTROL ECU

Refer to Terminals of ECU.

- for M20A-FXS

  Click here INFO
- for 2ZR-FXE:

  Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K11 hybrid vehicle control ECU connector.

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

Standard Resistance:

Bus 2 Branch Lines

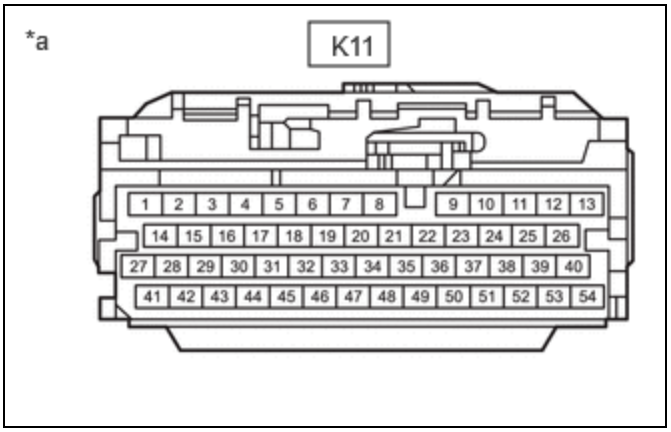
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K11-51 (CA1H) - K11-52 (CA1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K11-51 (CA1H) - K11-1 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-52 (CA1L) - K11-1 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-51 (CA1H) - K11-13 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K11-52 (CA1L) - K11-13 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Battery Local Bus Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K11-9 (CA4H) - K11-22 (CA4L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K11-9 (CA4H) - K11-1 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-22 (CA4L) - K11-1 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-9 (CA4H) - K11-13 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K11-22 (CA4L) - K11-13 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K11-50 (CA3P) - K11-49 (CA3N)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K11-50 (CA3P) - K11-1 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-49 (CA3N) - K11-1 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K11-50 (CA3P) - K11-13 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K11-49 (CA3N) - K11-13 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher



*a	Front view of wire harness connector (to Hybrid Vehicle Control ECU)

INVERTER WITH CONVERTER ASSEMBLY

Refer to Terminals of ECU.

- for M20A-FXS:

Click here INFO

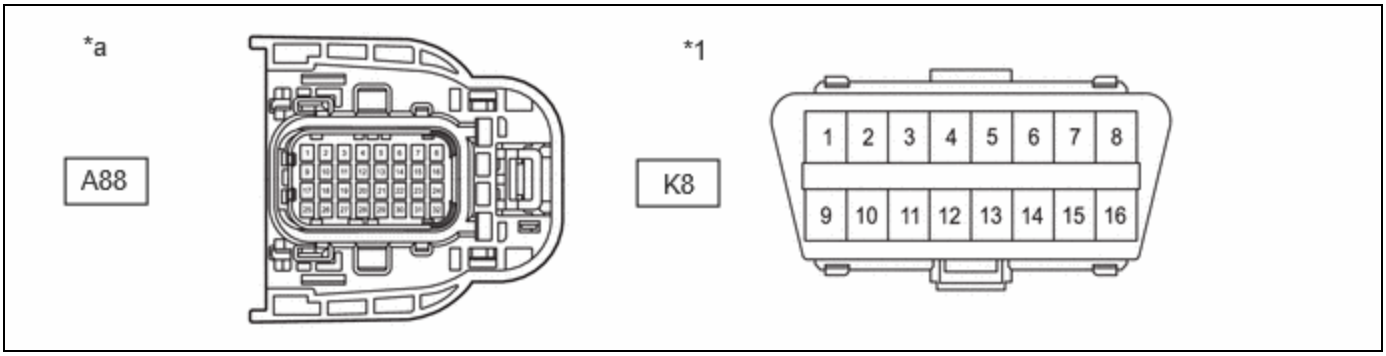
- for 2ZR-FXE:

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A88 inverter with converter assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Inverter with Converter Assembly)	-	-

Standard Resistance:

Bus 2 Main Lines

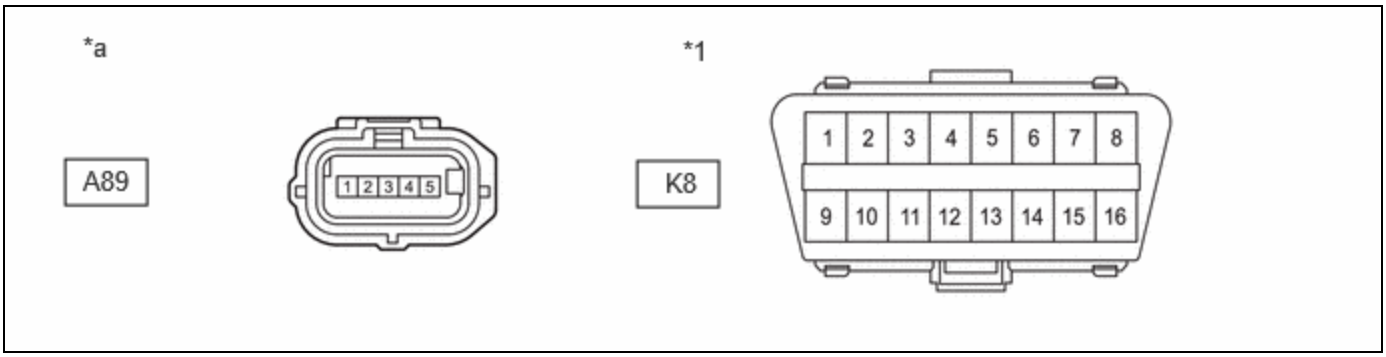
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A88-5 (CANH) - A88-6 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A88-5 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-6 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-5 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A88-6 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A88-13 (CADH) - A88-14 (CADL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A88-13 (CADH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-14 (CADL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-13 (CADH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A88-14 (CADL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A88-3 (CALH) - A88-11 (CALL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A88-3 (CALH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-11 (CALL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A88-3 (CALH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A88-11 (CALL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

(d) Disconnect the A89 inverter with converter assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Inverter with Converter Assembly)	-	-

Standard Resistance:

Battery Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A89-5 (CNH) - A89-4 (CNL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A89-5 (CNH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A89-4 (CNL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A89-5 (CNH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A89-4 (CNL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

ECM (for 2ZR-FXE)

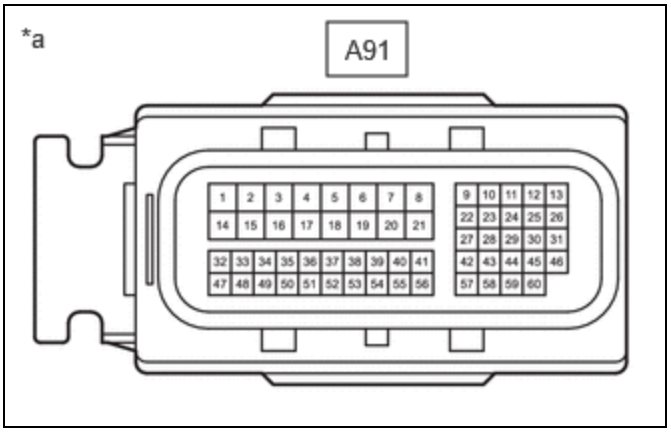
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A91 ECM connector.

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



*a	Front view of wire harness connector (to ECM)

Standard Resistance:

Bus 2 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A91-9 (CFDH) - A91-10 (CFDL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A91-9 (CFDH) - A91-17 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A91-10 (CFDL) - A91-17 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A91-9 (CFDH) - A91-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A91-10 (CFDL) - A91-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A91-11 (CFDT) - A91-12 (CFDB)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A91-11 (CFDT) - A91-17 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A91-12 (CFDB) - A91-17 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A91-11 (CFDT) - A91-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A91-12 (CFDB) - A91-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

ECM (for M20A-FXS)

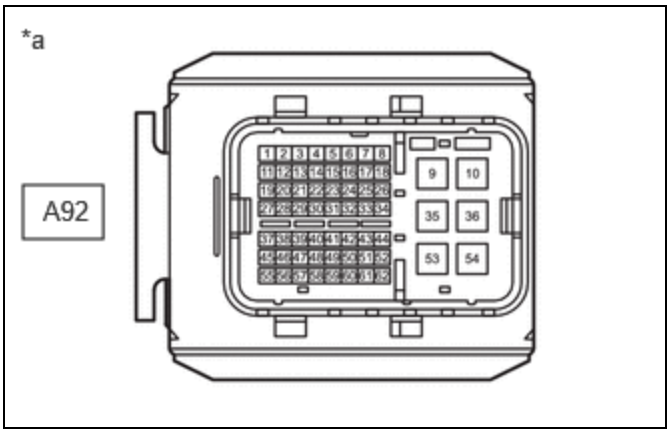
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A92 ECM connector.

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



*a	Front view of wire harness connector (to ECM)

Standard Resistance:

Bus 2 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A92-7 (CFDH) - A92-8 (CFDL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A92-7 (CFDH) - A92-10 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A92-8 (CFDL) - A92-10 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A92-7 (CFDH) - A92-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A92-8 (CFDL) - A92-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A92-5 (CFDT) - A92-6 (CFDB)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A92-5 (CFDT) - A92-10 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A92-6 (CFDB) - A92-10 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A92-5 (CFDT) - A92-1 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A92-6 (CFDB) - A92-1 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

COMBINATION METER ASSEMBLY

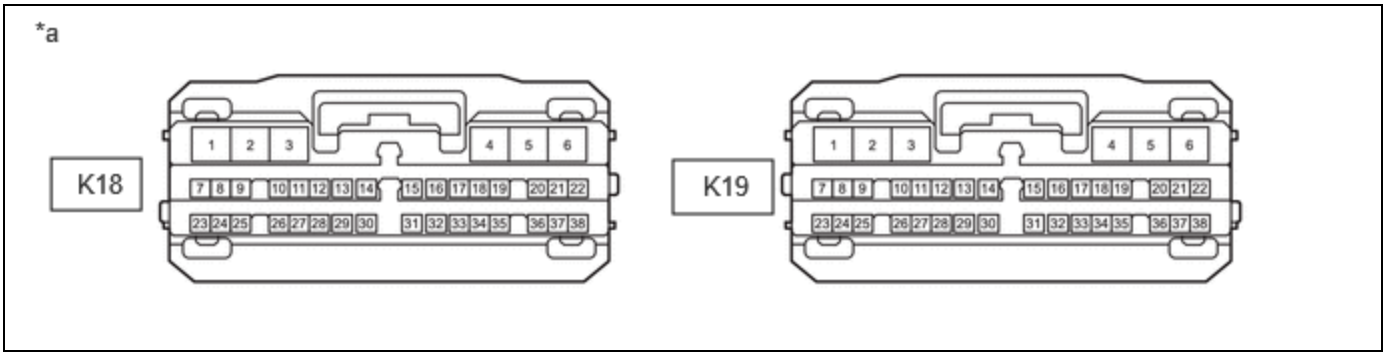
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K18 and K19 combination meter assembly connectors.

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



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

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K19-31 (CANH) - K19-14 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K19-31 (CANH) - K18-2 (ES)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K19-14 (CANL) - K18-2 (ES)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K19-31 (CANH) - K19-2 (B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K19-14 (CANL) - K19-2 (B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

NO. 1 SKID CONTROL ECU (BRAKE BOOSTER WITH MASTER CYLINDER ASSEMBLY)

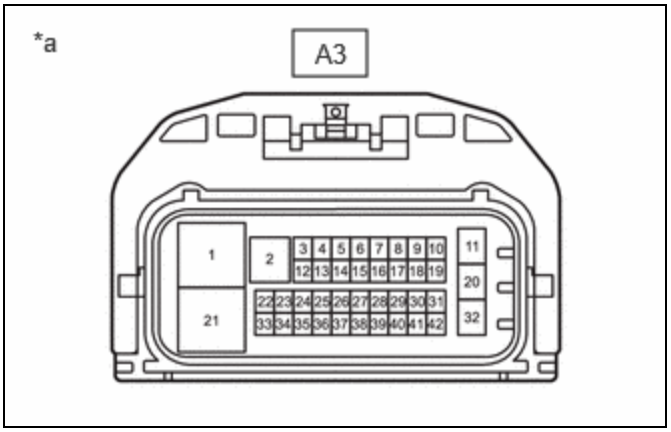
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A3 No. 1 skid control ECU (brake booster with master cylinder assembly) connector.

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



*a	Front view of wire harness connector (to No. 1 Skid Control ECU (Brake Booster with Master Cylinder Assembly))

Standard Resistance:

Bus 4 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A3-36 (CA1H) - A3-37 (CA1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A3-36 (CA1H) - A3-21 (GND2)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A3-37 (CA1L) - A3-21 (GND2)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A3-36 (CA1H) - A3-11 (BS)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A3-37 (CA1L) - A3-11 (BS)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A3-34 (DC1H) - A3-35 (DC1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A3-34 (DC1H) - A3-21 (GND2)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A3-35 (DC1L) - A3-21 (GND2)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A3-34 (DC1H) - A3-11 (BS)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A3-35 (DC1L) - A3-11 (BS)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A3-4 (CA2H) - A3-13 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A3-4 (CA2H) - A3-21 (GND2)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A3-13 (CA2L) - A3-21 (GND2)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A3-4 (CA2H) - A3-11 (BS)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A3-13 (CA2L) - A3-11 (BS)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

NO. 2 SKID CONTROL ECU (BRAKE ACTUATOR ASSEMBLY)

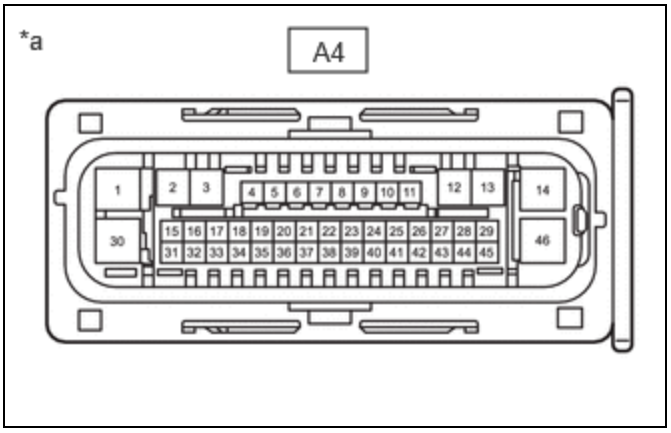
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A4 No. 2 skid control ECU (brake actuator assembly) connector.

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



*a	Front view of wire harness connector (to No. 2 Skid Control ECU (Brake Actuator Assembly))

Standard Resistance:

Bus 4 Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A4-27 (CANH) - A4-43 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A4-27 (CANH) - A4-1 (GND1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A4-43 (CANL) - A4-1 (GND1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A4-27 (CANH) - A4-14 (+BS)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A4-43 (CANL) - A4-14 (+BS)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Powertrain Local Bus Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A4-16 (CA2H) - A4-17 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A4-16 (CA2H) - A4-1 (GND1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A4-17 (CA2L) - A4-1 (GND1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A4-16 (CA2H) - A4-14 (+BS)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A4-17 (CA2L) - A4-14 (+BS)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

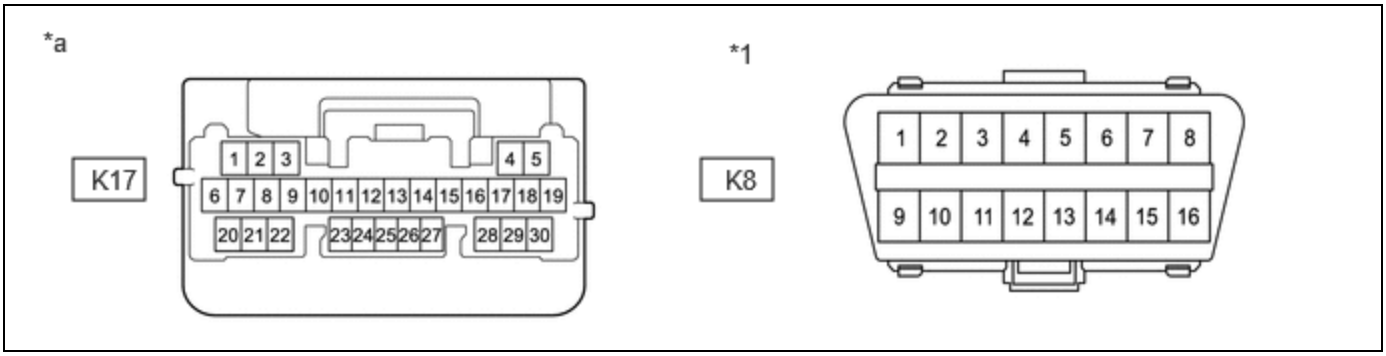
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K17 main body ECU (multiplex network body ECU) connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Main Body ECU (Multiplex Network Body ECU))	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K17-2 (CANH) - K17-1 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K17-2 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K17-1 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K17-2 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K17-1 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary 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 (-) auxiliary battery terminal.

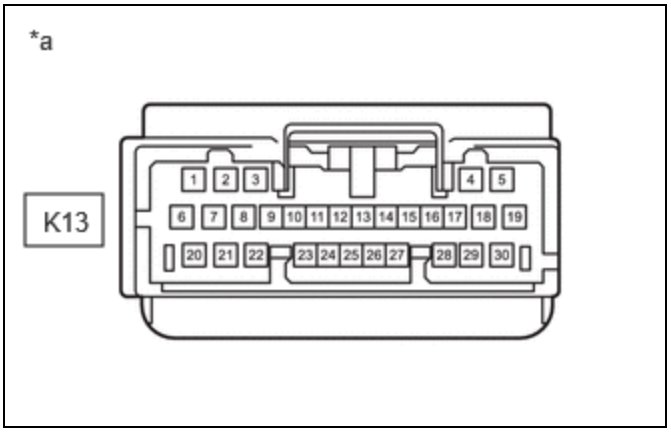
(b) Disconnect the K13 certification ECU (smart key ECU assembly) connector.

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

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K13-1 (CANH) - K13-2 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K13-1 (CANH) - K13-29 (E)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K13-2 (CANL) - K13-29 (E)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K13-1 (CANH) - K13-6 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K13-2 (CANL) - K13-6 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher



*a	Front view of wire harness connector (to Certification ECU (Smart Key ECU Assembly))

POWER STEERING ECU ASSEMBLY

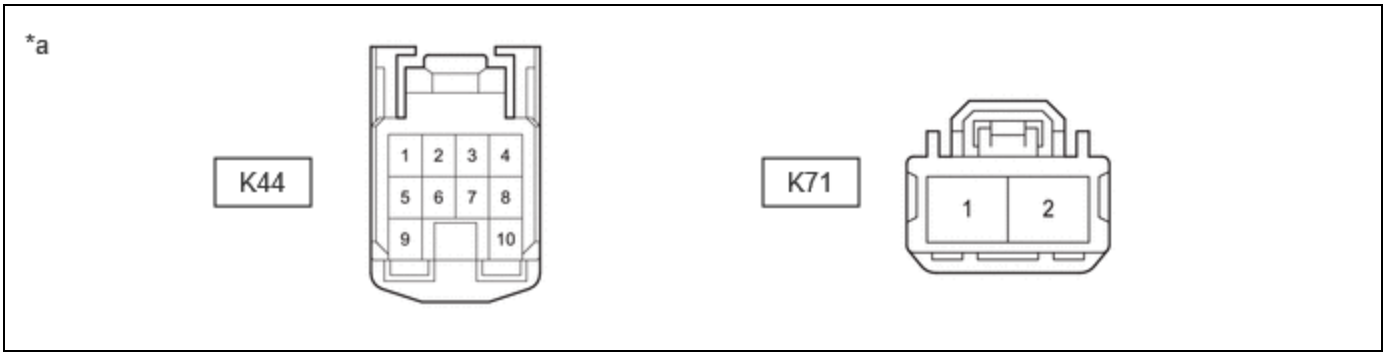
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K44 and K71 power steering ECU assembly connectors.

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



*a	Front view of wire harness connector (to Power Steering ECU Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K44-7 (CANH) - K44-8 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K44-7 (CANH) - K71-2 (PGND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K44-8 (CANL) - K71-2 (PGND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K44-7 (CANH) - K71-1 (PIG)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K44-8 (CANL) - K71-1 (PIG)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

AIRBAG ECU ASSEMBLY

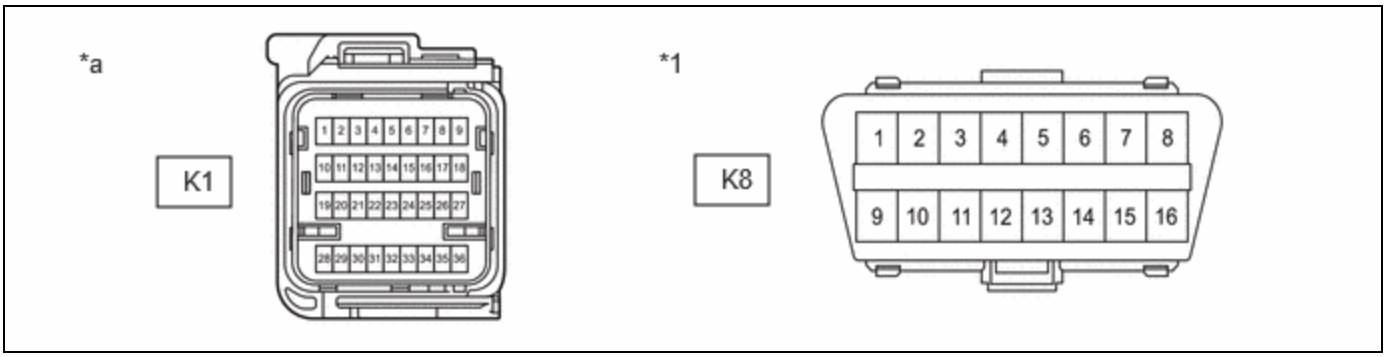
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K1 airbag ECU assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Airbag ECU Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K1-26 (CAFH) - K1-27 (CAFL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K1-26 (CAFH) - K1-33 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K1-27 (CAFL) - K1-33 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K1-26 (CAFH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K1-27 (CAFL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

AIR CONDITIONING AMPLIFIER ASSEMBLY

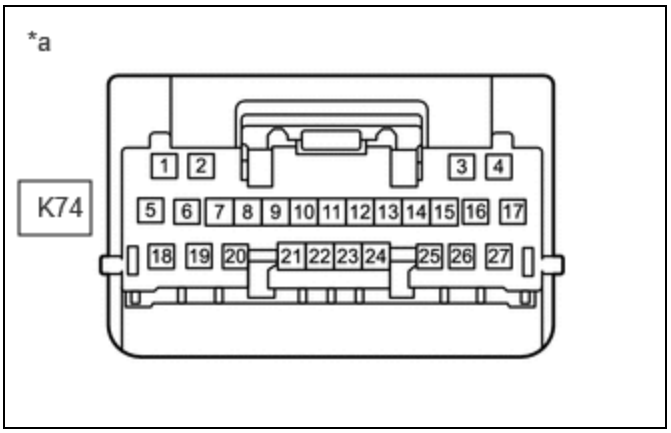
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K74 air conditioning amplifier assembly connector.

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



*a	Front view of wire harness connector (to Air Conditioning Amplifier Assembly)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K74-2 (CANH) - K74-1 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K74-2 (CANH) - K74-17 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K74-1 (CANL) - K74-17 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K74-2 (CANH) - K74-5 (B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K74-1 (CANL) - K74-5 (B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

BLIND SPOT MONITOR SENSOR LH (B)

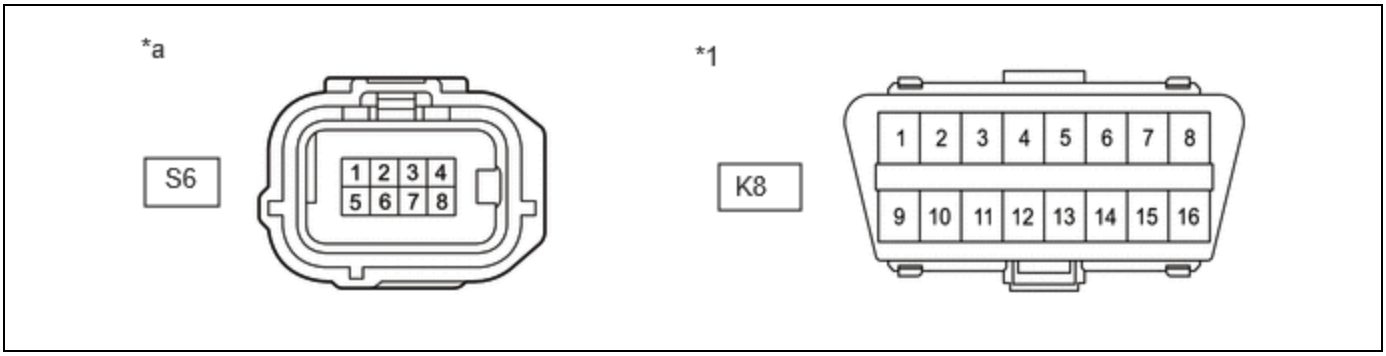
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the S6 blind spot monitor sensor LH (B) connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Blind Spot Monitor Sensor LH (B))	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
S6-3 (CA1P) - S6-2 (CA1N)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
S6-3 (CA1P) - S6-1 (BLGD)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
S6-2 (CA1N) - S6-1 (BLGD)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
S6-3 (CA1P) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
S6-2 (CA1N) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

FORWARD RECOGNITION CAMERA

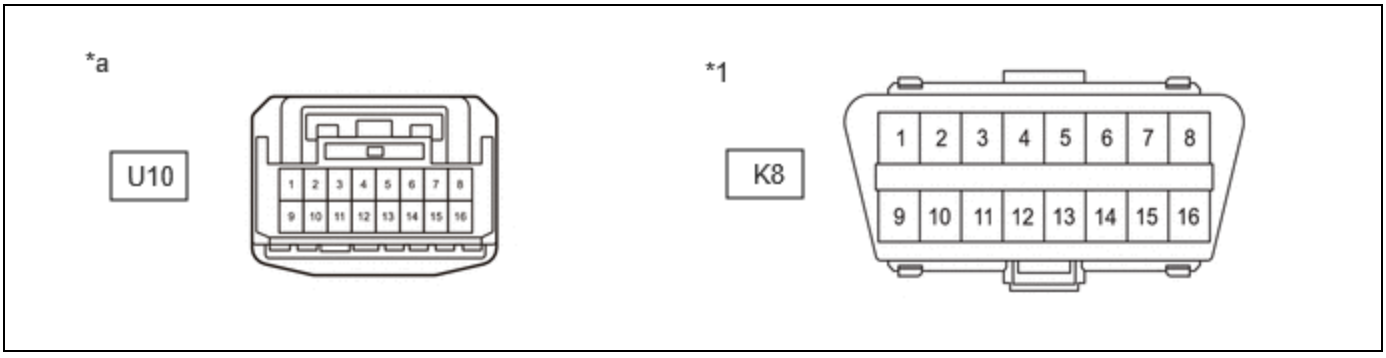
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the U10 forward recognition camera connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector	-	-

	(to Forward Recognition Camera)		

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
U10-2 (CA2P) - U10-1 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
U10-2 (CA2P) - U10-13 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
U10-1 (CA2L) - U10-13 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
U10-2 (CA2P) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U10-1 (CA2L) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U10-10 (CA1P) - U10-9 (CA1N)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
U10-10 (CA1P) - U10-13 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
U10-9 (CA1N) - U10-13 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
U10-10 (CA1P) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U10-9 (CA1N) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

MILLIMETER WAVE RADAR SENSOR ASSEMBLY

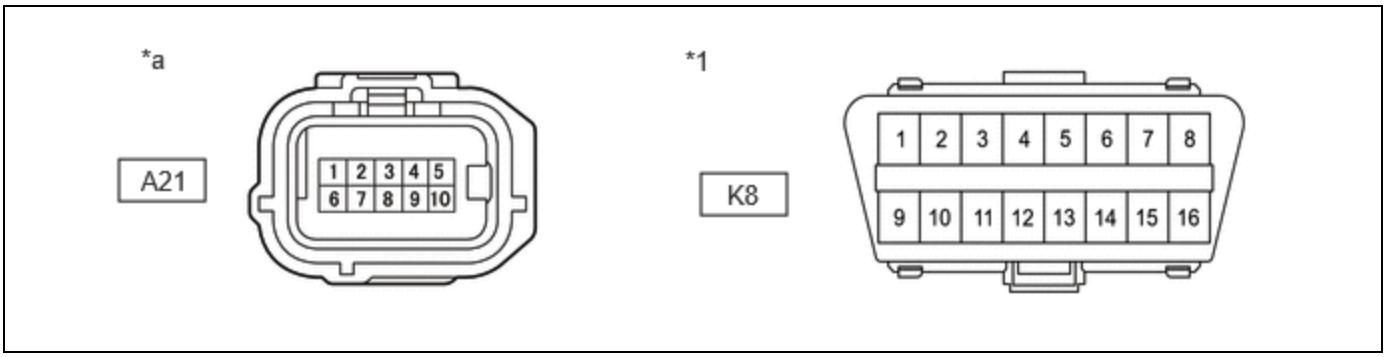
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A21 millimeter wave radar sensor assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector	-	-

	(to Millimeter Wave Radar Sensor Assembly)		

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A21-4 (CA2H) - A21-3 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A21-4 (CA2H) - A21-5 (SGND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-3 (CA2L) - A21-5 (SGND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-4 (CA2H) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A21-3 (CA2L) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A21-10 (CA3H) - A21-9 (CA3L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
A21-10 (CA3H) - A21-5 (SGND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-9 (CA3L) - A21-5 (SGND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-10 (CA3H) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A21-9 (CA3L) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

DCM(TELEMATICS TRANSCEIVER) (w/ Telematics Transceiver)

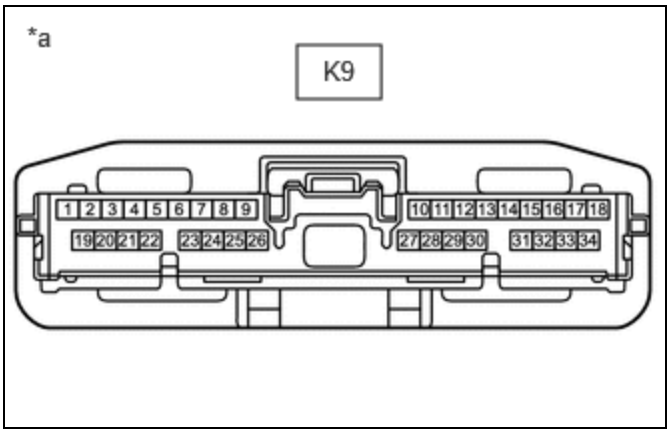
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K9 DCM(telematics transceiver) connector.

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



*a	Front view of wire harness connector (to DCM(Telematics Transceiver))

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K9-25 (CANP) - K9-26 (CANN)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K9-25 (CANP) - K9-20 (E)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K9-26 (CANN) - K9-20 (E)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K9-25 (CANP) - K9-1 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K9-26 (CANN) - K9-1 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

VEHICLE APPROACHING SPEAKER CONTROLLER

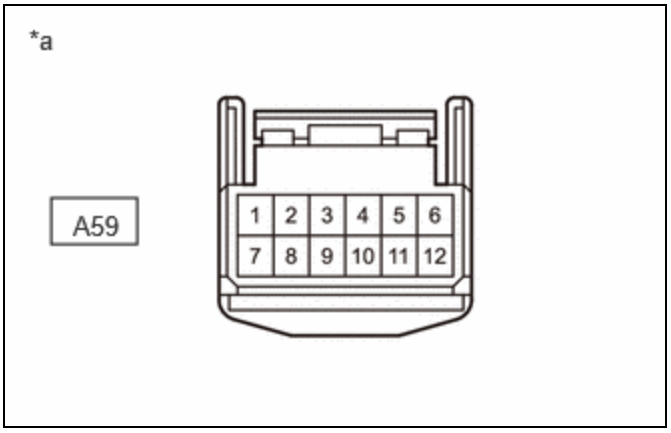
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A59 vehicle approaching speaker controller connector.

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



*a	Front view of wire harness connector (to Vehicle Approaching Speaker Controller)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A59-1 (CANH) - A59-2 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A59-1 (CANH) - A59-12 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A59-2 (CANL) - A59-12 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A59-1 (CANH) - A59-7 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A59-2 (CANL) - A59-7 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

OPTION CONNECTOR (BUS BUFFER ECU)

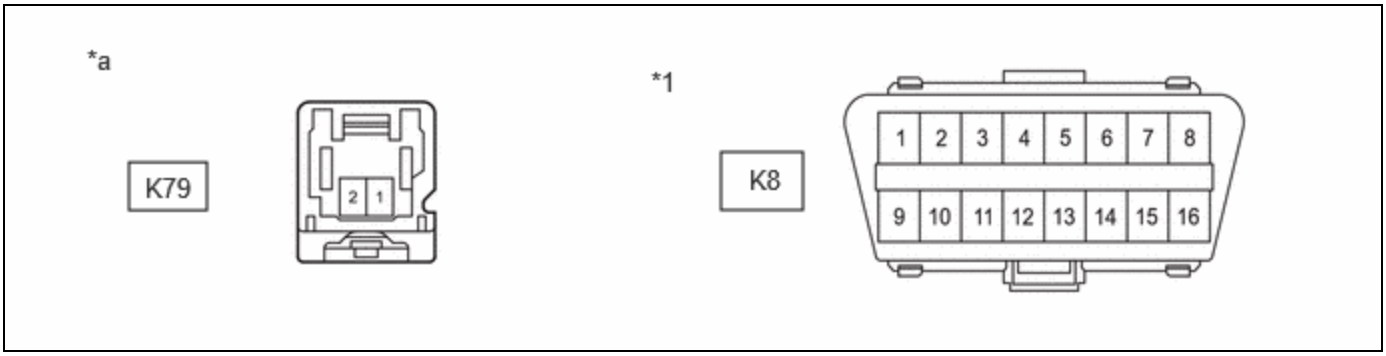
(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K79 option connector (bus buffer ECU) connector.

HINT:

Disconnect any CAN compatible optional devices from the option connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Option Connector (Bus Buffer ECU))	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K79-2 (CAN+) - K79-1 (CAN-)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
K79-2 (CAN+) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K79-1 (CAN-) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K79-2 (CAN+) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K79-1 (CAN-) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

RADIO AND DISPLAY RECEIVER ASSEMBLY

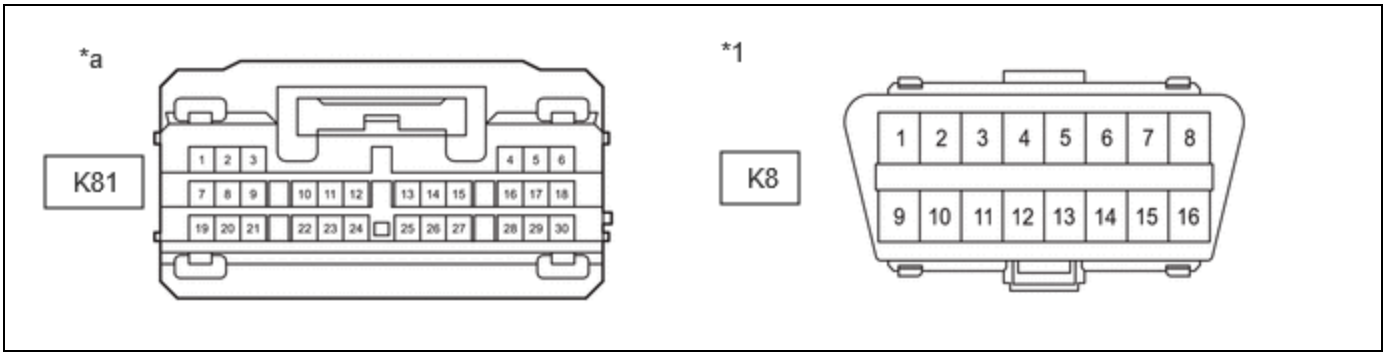
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K81 radio and display receiver assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Radio and Display Receiver Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K81-13 (CANH) - K81-14 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K81-13 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K81-14 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K81-13 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K81-14 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

BATTERY ECU ASSEMBLY

Refer to Terminals of ECU.

- for M20A-FXS:

  Click here INFO

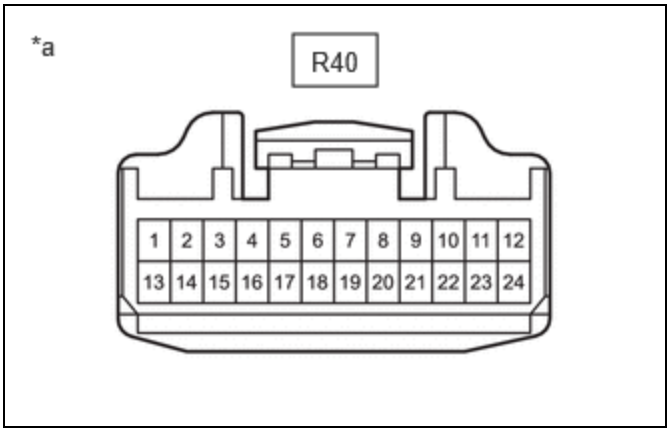
- for 2ZR-FXE:

  Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the R40 battery ECU assembly connector.

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



*a	Front view of wire harness connector (to Battery ECU Assembly)

Standard Resistance:

Bus 2 Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R40-9 (CA2H) - R40-8 (CA2L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
R40-9 (CA2H) - R40-10 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-8 (CA2L) - R40-10 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-9 (CA2H) - R40-24 (AM)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R40-8 (CA2L) - R40-24 (AM)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R40-20 (C2HB) - R40-19 (C2LB)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω
R40-20 (C2HB) - R40-10 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-19 (C2LB) - R40-10 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-20 (C2HB) - R40-24 (AM)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R40-19 (C2LB) - R40-24 (AM)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Battery Local Bus Main Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R40-22 (CA1H) - R40-21 (CA1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R40-22 (CA1H) - R40-10 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-21 (CA1L) - R40-10 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R40-22 (CA1H) - R40-24 (AM)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R40-21 (CA1L) - R40-24 (AM)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

CLEARANCE WARNING ECU ASSEMBLY (w/ Intuitive Parking Assist System)

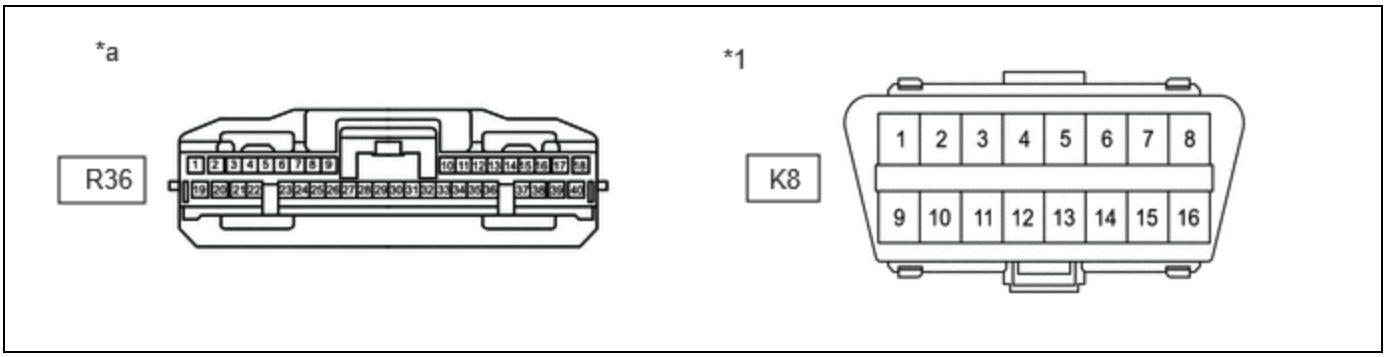
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the R36 clearance warning ECU assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Clearance Warning ECU Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R36-17 (R1) - R36-18 (R2)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
R36-17 (R1) - R36-31 (E)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R36-18 (R2) - R36-31 (E)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R36-17 (R1) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R36-18 (R2) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

POSITION CONTROL ECU ASSEMBLY LH (w/ Seat Position Memory System)

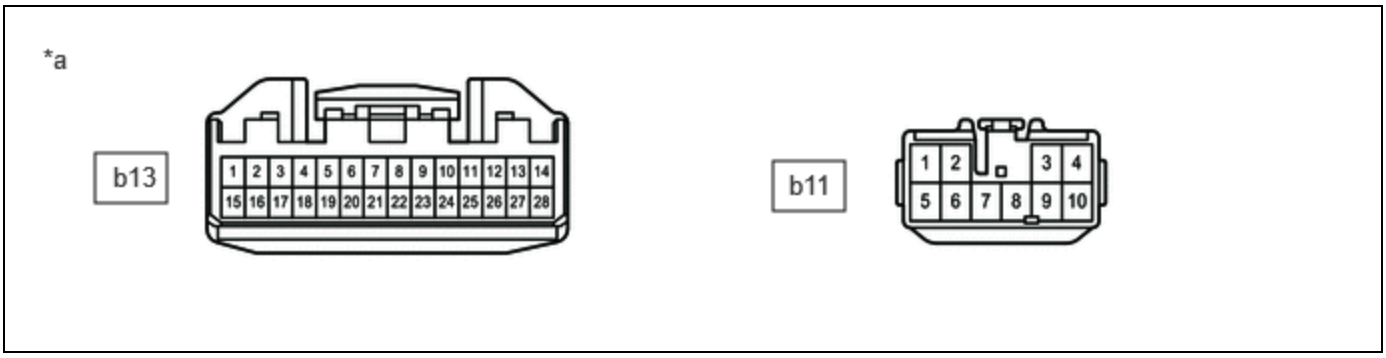
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the b11 and b13 position control ECU assembly LH connectors.

(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)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
b13-13 (CANP) - b13-14 (CANN)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
b13-13 (CANP) - b11-2 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
b13-14 (CANN) - b11-2 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
b13-13 (CANP) - b11-3 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
b13-14 (CANN) - b11-3 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

TIRE PRESSURE WARNING ECU AND RECEIVER

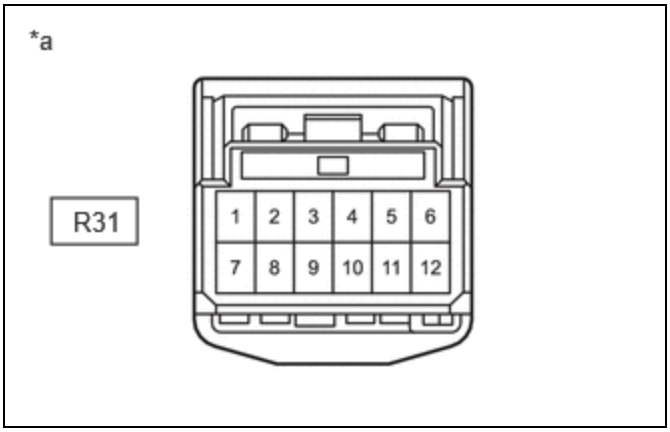
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the R31 tire pressure warning ECU and receiver connector.

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



*a	Front view of wire harness connector (to Tire Pressure Warning ECU and Receiver)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R31-9 (CANH) - R31-10 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
R31-9 (CANH) - R31-12 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R31-10 (CANL) - R31-12 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R31-9 (CANH) - R31-7 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R31-10 (CANL) - R31-7 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

TRANSMISSION FLOOR SHIFT ASSEMBLY

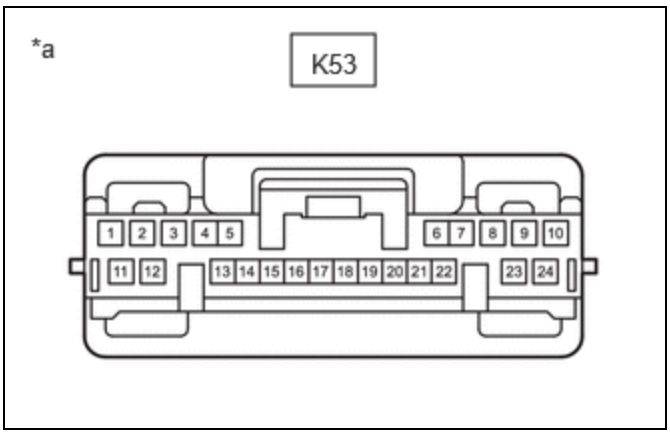
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K53 transmission floor shift assembly connector.

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



*a	Front view of wire harness connector (to Transmission Floor Shift Assembly)

Standard Resistance:

Bus 2 Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K53-15 (CA1H) - K53-16 (CA1L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K53-15 (CA1H) - K53-9 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K53-16 (CA1L) - K53-9 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K53-15 (CA1H) - K53-2 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K53-16 (CA1L) - K53-2 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

Battery Local Bus Branch Lines

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K53-21 (CA3H) - K53-6 (CA3L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K53-21 (CA3H) - K53-9 (E1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K53-6 (CA3L) - K53-9 (E1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K53-21 (CA3H) - K53-2 (BATT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K53-6 (CA3L) - K53-2 (BATT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

SHIFT CONTROL ACTUATOR ASSEMBLY

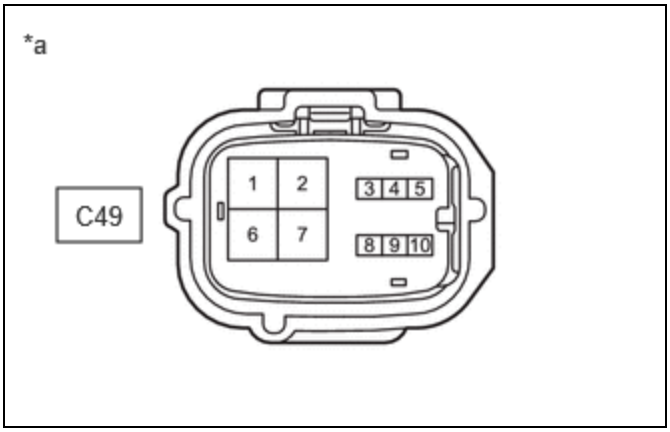
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the C49 shift control actuator assembly connector.

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



*a	Front view of wire harness connector (to Shift Control Actuator Assembly)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
C49-4 (CA3H) - C49-3 (CA3L)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
C49-4 (CA3H) - C49-2 (E01)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
C49-3 (CA3L) - C49-2 (E01)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
C49-4 (CA3H) - C49-1 (MA1)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
C49-3 (CA3L) - C49-1 (MA1)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

INTEGRATION CONTROL SUPPLY

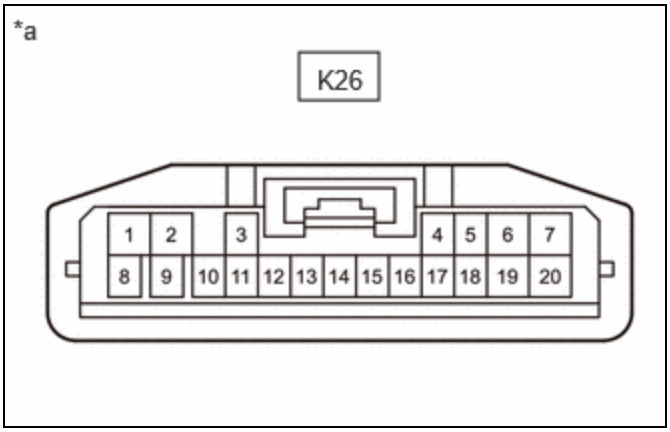
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the K26 integration control supply connector.

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



*a	Front view of wire harness connector (to Integration Control Supply)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K26-3 (CANH) - K26-11 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
K26-3 (CANH) - K26-2 (GND)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K26-11 (CANL) - K26-2 (GND)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K26-3 (CANH) - K26-7 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
K26-11 (CANL) - K26-7 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

INNER REAR VIEW MIRROR ASSEMBLY (w/ Digital Inner Mirror System)

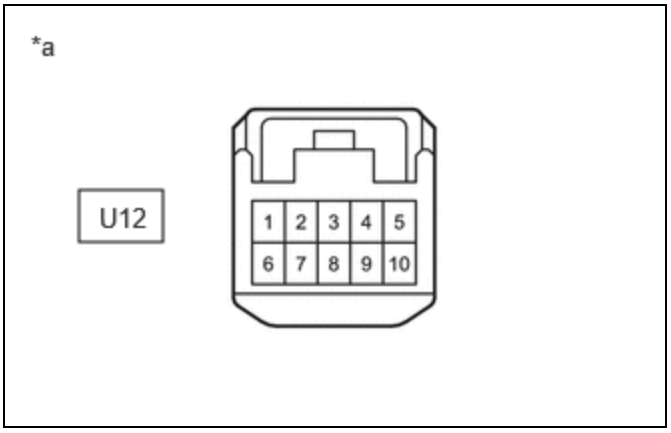
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the U12 inner rear view mirror assembly connector.

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



*a	Front view of wire harness connector (to Inner Rear View Mirror Assembly)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
U12-9 (CANH) - U12-10 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
U12-9 (CANH) - U12-2 (E)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
U12-10 (CANL) - U12-2 (E)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
U12-9 (CANH) - U12-6 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U12-10 (CANL) - U12-6 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

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

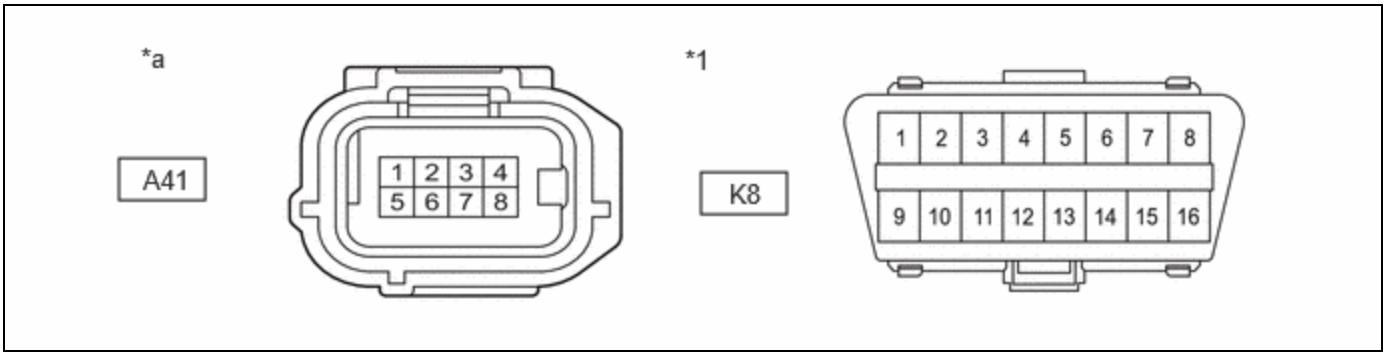
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the A41 front side radar sensor (A) connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Front Side Radar Sensor (A))	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A41-3 (CA1P) - A41-2 (CA1N)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
A41-3 (CA1P) - A41-1 (FMGD)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A41-2 (CA1N) - A41-1 (FMGD)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A41-3 (CA1P) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A41-2 (CA1N) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

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

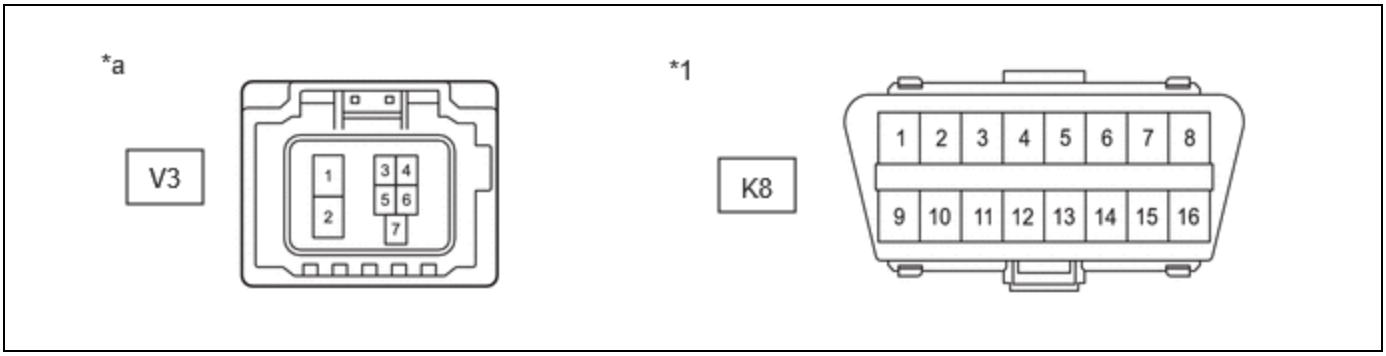
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the V3 rear television camera assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Rear Television Camera Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
V3-1 (CANH) - V3-2 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
V3-1 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
V3-2 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
V3-1 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
V3-2 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

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

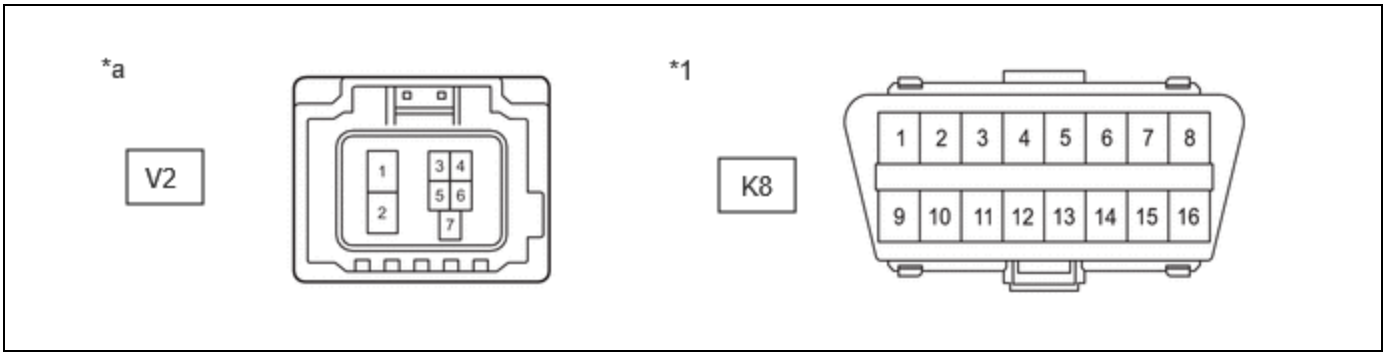
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the V2 rear television camera assembly connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector (to Rear Television Camera Assembly)	-	-

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
V2-1 (CANH) - V2-2 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
V2-1 (CANH) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
V2-2 (CANL) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
V2-1 (CANH) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
V2-2 (CANL) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

MULTIPLEX NETWORK DOOR ECU (w/ Power Back Door System)

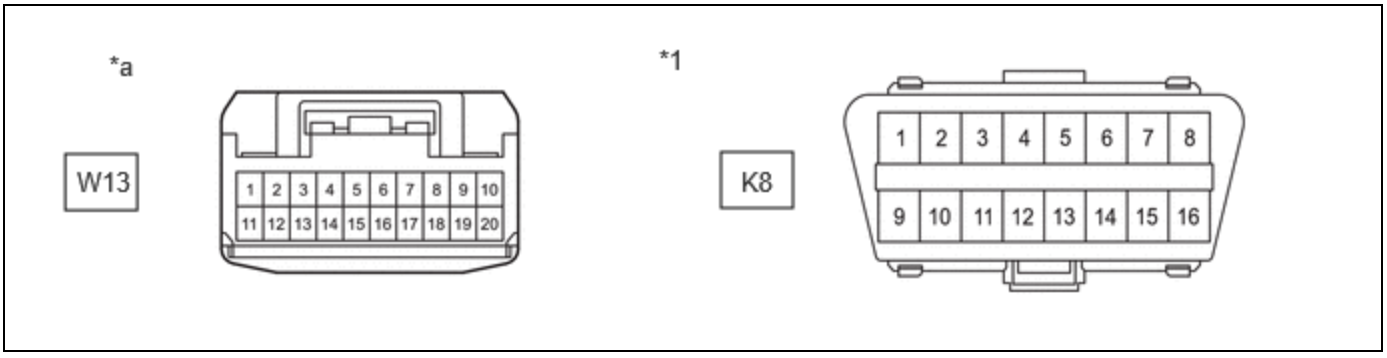
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the W13 multiplex network door ECU connector.

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



*1	DLC3	-	-
*a	Front view of wire harness connector	-	-

	(to Multiplex Network Door ECU)		

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
W13-10 (CANP) - W13-20 (CANN)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
W13-10 (CANP) - K8-4 (CG)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
W13-20 (CANN) - K8-4 (CG)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
W13-10 (CANP) - K8-16 (BAT)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
W13-20 (CANN) - K8-16 (BAT)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

PARKING ASSIST ECU (w/ Panoramic View Monitor System)

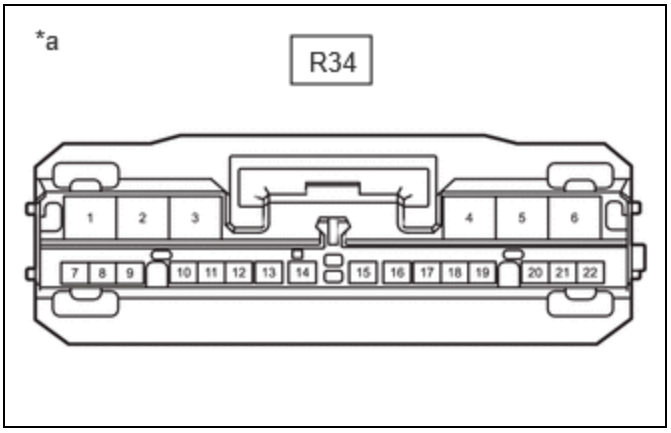
Refer to Terminals of ECU.

Click here INFO

(a) Disconnect the cable from the negative (-) auxiliary battery terminal.

(b) Disconnect the R34 parking assist ECU connector.

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



*a	Front view of wire harness connector (to Parking Assist ECU)

Standard Resistance:

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R34-12 (CANH) - R34-13 (CANL)	HIGH-level CAN bus line - LOW-level CAN bus line	Cable disconnected from negative (-) auxiliary battery terminal	54 to 69 Ω
R34-12 (CANH) - R34-4 (GND1)	HIGH-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R34-13 (CANL) - R34-4 (GND1)	LOW-level CAN bus line - Ground	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R34-12 (CANH) - R34-1 (+B)	HIGH-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
R34-13 (CANL) - R34-1 (+B)	LOW-level CAN bus line - Auxiliary battery positive (+)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher