Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002B6JB	
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for PHEV Model): Check Bus 1 Line; 2023 - 2024 MY Prius			
Prime [03/2023 -]			

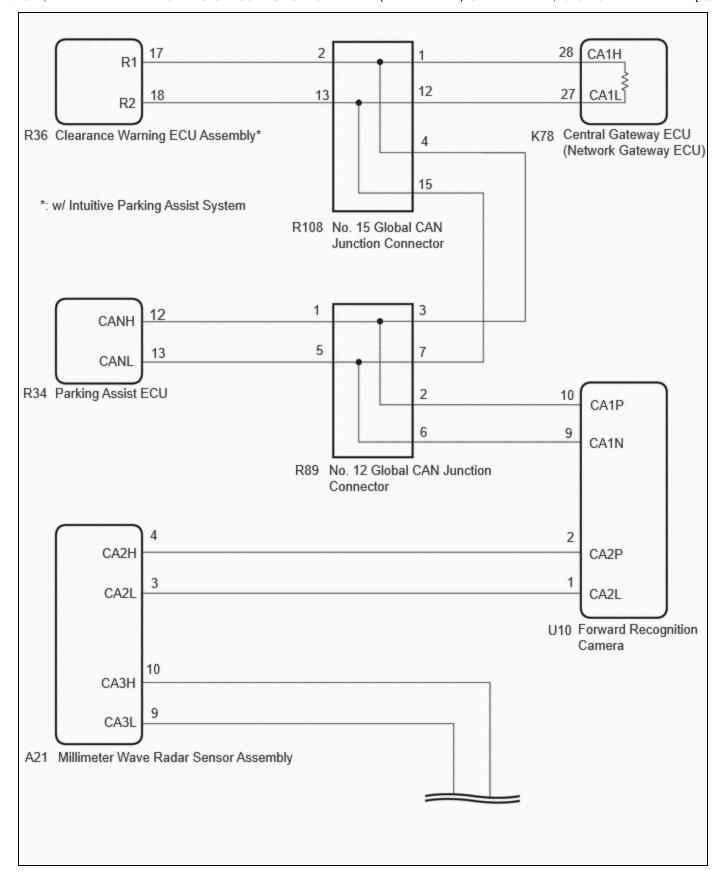
Check Bus 1 Line

DESCRIPTION

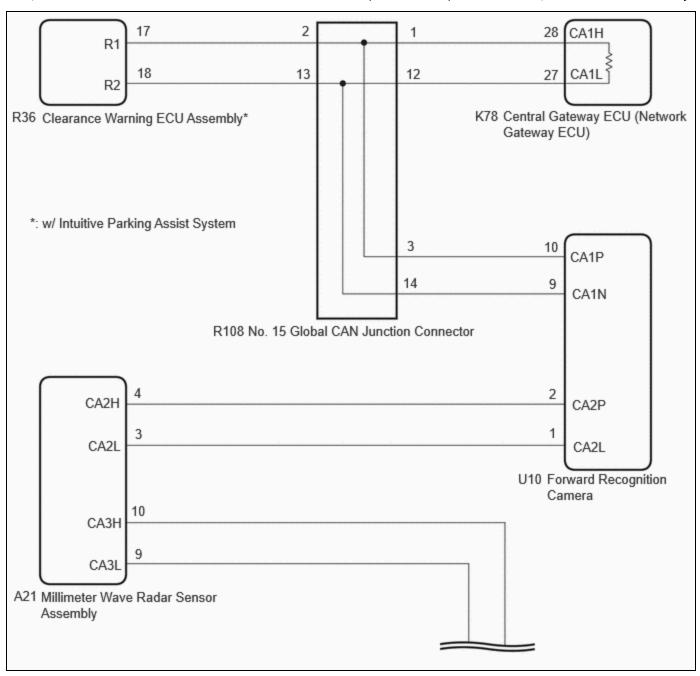
SYMPTOM	TROUBLE AREA
There are ECUs or sensors that display a communication stop on the bus diagnostic screen. Or, there are ECUs or sensors that display communication stop history on the "Detail" screen.	 CAN main bus line, CAN branch line or connector Central gateway ECU (network gateway ECU) Clearance warning ECU assembly (w/ Intuitive Parking Assist System) Forward recognition camera Millimeter wave radar sensor assembly Front side radar sensor (A) (w/ Front Side Radar Sensor System) Parking assist ECU (w/ Panoramic View Monitor System) Blind spot monitor sensor LH (B) No. 2 global CAN junction connector No. 11 global CAN junction connector No. 12 global CAN junction connector No. 15 global CAN junction connector (w/ Panoramic View Monitor System) No. 15 global CAN junction connector No. 15 global CAN junction connector No. 2 CAN junction terminal

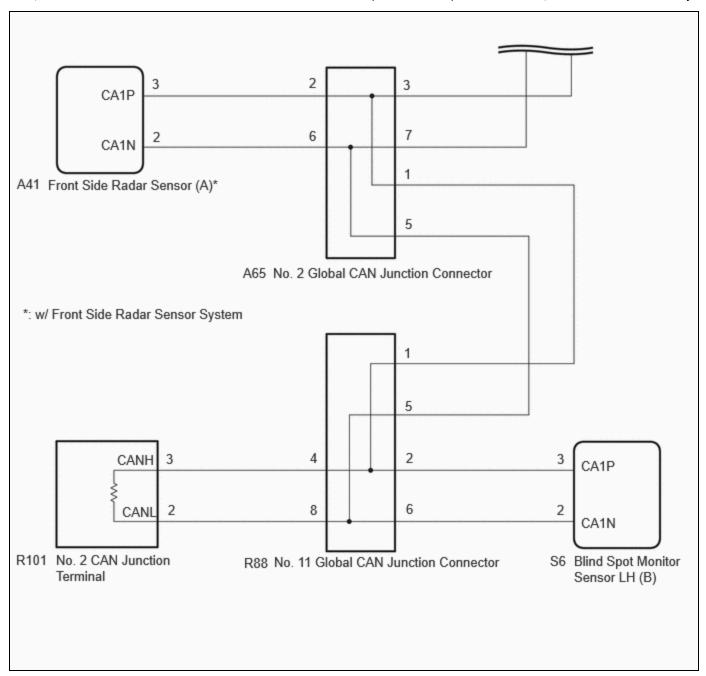
WIRING DIAGRAM

w/ Panoramic View Monitor System:



w/o Panoramic View Monitor System:





CAUTION / NOTICE / HINT

CAUTION:

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

NOTICE:

• Because the order of diagnosis is important to allow correct diagnosis, make sure to begin troubleshooting using How to Proceed with Troubleshooting when CAN communication system related DTCs are output.

Click here NFO

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

Click here

• 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 NFO

Some parts must be initialized and set when replacing or removing and installing parts.

Click here NFO

• After performing repairs, perform the DTC check procedure and confirm that the DTCs are not output again.

DTC check procedure: Turn the ignition switch to ON and wait for 1 minute or more. Then operate the suspected malfunctioning system and drive the vehicle at 60 km/h (37 mph) or more for 5 minutes or more.

• After the repair, perform the CAN bus check and check that all the ECUs and sensors connected to the CAN communication system are displayed as normal.

Click here NFO

HINT:

1.

- Before disconnecting related connectors for inspection, push in on each connector body to check that the connector is not loose or disconnected.
- When a connector is disconnected, check that the terminals and connector body are not cracked, deformed or corroded.

PROCEDURE

CHECK FOR OPEN IN CAN MAIN BUS LINES

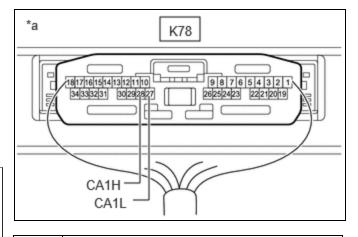
- (a) Disconnect the cable from the negative (-) auxiliary battery terminal.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K78) Click Connector(K78)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K78-27 (CA1L)	Cable disconnected from negative (-) auxiliary battery terminal	Below 70 Ω



*a (Central Gateway ECU (Network Gateway ECU))

NG GO TO STEP 86

OK



2. CHECK FOR SHORT IN CAN BUS LINES

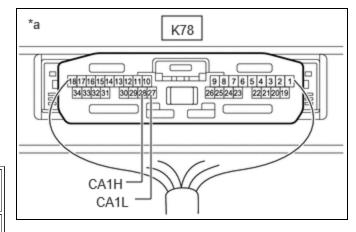
(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K78) Click Connector(K78)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K78-27 (CA1L)	Cable disconnected from negative (-) auxiliary battery terminal	54 Ω or higher



*a (Central Gateway ECU (Network Gateway ECU))

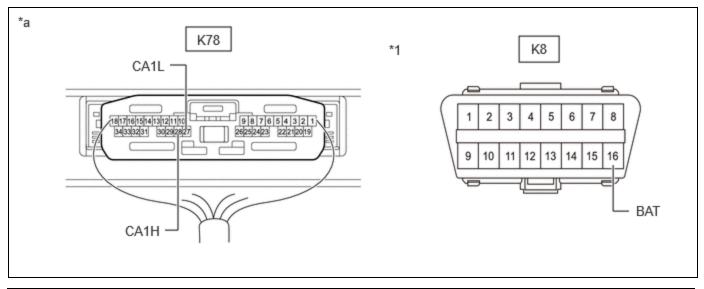




3.

CHECK FOR SHORT TO +B IN CAN BUS LINE

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



*1	DLC3	ı	1
*a	Component with harness connected (Central Gateway ECU (Network Gateway ECU))	-	-

Standard Resistance:



Click Location & Routing(K78,K8)
Click Connector(K78)
Click Connector(K8)

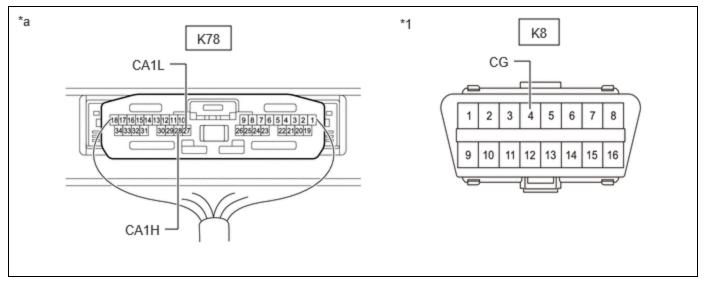
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
K78-27 (CA1L) - K8-16 (BAT)	terminal	6 kΩ or higher

NG GO TO STEP 32



4. CHECK FOR SHORT TO GND IN CAN BUS LINE

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



*1	DLC3	-	-
*a	Component with harness connected (Central Gateway ECU (Network Gateway ECU))	-	-

Standard Resistance:



Click Location & Routing(K78,K8)

Click Connector(K78)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K8-4 (CG) K78-27 (CA1L) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)



- 5. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the R108 No. 15 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R108,K8)
Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
R108-12 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

NG GO TO STEP 8



6. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Panoramic View Monitor System	А
w/o Panoramic View Monitor System	В

B GO TO STEP 14



7.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(R108,K8)

Click Connector(R108) Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-4(CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
R108-15 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK GO TO STEP 15

NG GO TO STEP 9

- 8. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:

EWD INFO

Click Location & Routing(R108,K8)
Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
R108-12 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

- OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)
- NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- 9. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR NO. 15 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Disconnect the R89 No. 12 global CAN junction connector.

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

Standard Resistance:



Click Location & Routing(R89,K8)
Click Connector(R89)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-3 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R89-7 (CANL) - K8-4 (CG)	99.1	

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



10.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R89,K8)

Click Connector(R89)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R89-6 (CANL) - K8-4 (CG)	***************************************	

NG GO TO STEP 12



- 11. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR PARKING ASSIST ECU)
- (a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R89,K8)
Click Connector(R89)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R89-5 (CANL) - K8-4 (CG)	99111111911	

OK REPLACE NO. 12 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 13

- 12. CHECK FOR SHORT TO GND IN CAN BUS LINE (FORWARD RECOGNITION CAMERA NO. 12 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Disconnect the U10 forward recognition camera connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(U10,K8)
Click Connector(U10)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	$200~\Omega$ or higher
U10-9 (CA1N) - K8-4 (CG)	99.11	

OK GO TO STEP 19

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

13. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

- (a) Disconnect the R34 parking assist ECU connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R89,K8)

Click Connector(R89)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R89-5 (CANL) - K8-4 (CG)		

OK > REPLACE PARKING ASSIST ECU

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

14. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R108,K8)
Click Connector(R108)
Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-3 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
R108-14 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

NG GO TO STEP 18



15.	CHECK VEHICLE TYPE	
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(a) Check vehicle type.

RESULT	PROCEED TO
w/ Intuitive Parking Assist System	А
w/o Intuitive Parking Assist System	В

B REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



16.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

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

Standard Resistance:



Click Connector(R108)
Click Connector(K8)

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TESTER CONNECTI	ION CONDITION

R108-2 (CANH) - K8-4 (CG)

R108-13 (CANL) - K8-4

(CG)

SPECIFIED
CONDITION

Cable disconnected from negative (-) auxiliary battery terminal

200 Ω or higher

OK REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



- 17. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CLEARANCE WARNING ECU ASSEMBLY)
- (a) Disconnect the R36 clearance warning ECU assembly connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
R108-13 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE CLEARANCE WARNING ECU ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

- 18. CHECK FOR SHORT TO GND IN CAN BUS LINE (FORWARD RECOGNITION CAMERA NO. 15 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Disconnect the U10 forward recognition camera connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(U10,K8)
Click Connector(U10)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	$200~\Omega$ or higher
U10-9 (CA1N) - K8-4 (CG)	***************************************	

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



- 19. CHECK FOR SHORT TO GND IN CAN BUS LINE (FORWARD RECOGNITION CAMERA MILLIMETER WAVE RADAR SENSOR ASSEMBLY)
- (a) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



Click Location & Routing(U10,K8)
Click Connector(U10)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-2 (CA2P) - K8-4 (CG) U10-1 (CA2L) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK REPLACE FORWARD RECOGNITION CAMERA



20.

CHECK FOR SHORT TO GND IN CAN BUS LINE (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)

- (a) Disconnect the A21 millimeter wave radar sensor assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A21,K8)

Click Connector(A21)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-4 (CA2H) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-3 (CA2L) - K8-4 (CG)	55	

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)





CHECK FOR SHORT TO GND IN CAN BUS LINE (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(A21,K8)

Click Connector(A21)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-10 (CA3H) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A21-9 (CA3L) - K8-4 (CG)	55	

OK REPLACE MILLIMETER WAVE RADAR SENSOR ASSEMBLY



22.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

- (a) Disconnect the A65 No. 2 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A65,K8)

Click Connector(A65)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-3 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A65-7 (CANL) - K8-4 (CG)		

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)



23.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(A65,K8)

Click Connector(A65)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	$200~\Omega$ or higher
A65-5 (CANL) - K8-4 (CG)	99.1	

NG GO TO STEP 27



24. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Front Side Radar Sensor System	A
w/o Front Side Radar Sensor System	В

B REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



25.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

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

Standard Resistance:



Click Location & Routing(A65,K8)
Click Connector(A65)
Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A65-6 (CANL) - K8-4 (CG)		

OK REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



26. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

- (a) Disconnect the A41 front side radar sensor (A) connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



Click Location & Routing(A65,K8)
Click Connector(A65)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
A65-6 (CANL) - K8-4 (CG)	99.1	

OK REPLACE FRONT SIDE RADAR SENSOR (A)

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

27. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Disconnect the R88 No. 11 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)
Click Connector(R88)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R88-5 (CANL) - K8-4 (CG)	99.1	

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)



28.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

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

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R88-8 (CANL) - K8-4 (CG)	55.1	

NG GO TO STEP 30



29.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

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

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R88-6 (CANL) - K8-4 (CG)	***************************************	

OK REPLACE NO. 11 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 31

30.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

- (a) Disconnect the R101 No. 2 CAN junction terminal connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
R88-8 (CANL) - K8-4 (CG)	***************************************	

OK REPLACE NO. 2 CAN JUNCTION TERMINAL

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION

CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

- 31. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR BLIND SPOT MONITOR SENSOR LH (B))
- (a) Disconnect the S6 blind spot monitor sensor LH (B) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)
Click Connector(R88)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - K8-4 (CG) R88-6 (CANL) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

- **OK** REPLACE BLIND SPOT MONITOR SENSOR LH (B)
- NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR BLIND SPOT MONITOR SENSOR LH (B))
- CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the R108 No. 15 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

NETWORKING: CAN COMMUNICATION SYSTEM (for PHEV Model): Check Bus 1 Line; 2023 - 2024 MY Prius Prime [03/2023 ...

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-12 (CANL) - K8-16 (BAT)		

NG GO TO STEP 35



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33.	CHECK VEHICLE TYPE	
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(a) Check vehicle type.

RESULT	PROCEED TO
w/ Panoramic View Monitor System	А
w/o Panoramic View Monitor System	В

B GO TO STEP 41



34.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-4 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-15 (CANL) - K8-16 (BAT)		

OK GO TO STEP 42

NG GO TO STEP 36

35.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

- (a) Disconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



Click Location & Routing(R108,K8)
Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	C I/O on higher
R108-12 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

36.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Disconnect the R89 No. 12 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R89,K8)
Click Connector(R89)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-3 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kΩ or higher
R89-7 (CANL) - K8-16 (BAT)	terminal	o ksz or migner

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



37.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R89,K8)

Click Connector(R89)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k Ω or higher
R89-6 (CANL) - K8-16 (BAT)	terminal	o ksz or nigner

NG GO TO STEP 39



38.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

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

Standard Resistance:



Click Location & Routing(R89,K8)
Click Connector(R89)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R89-5 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

OK REPLACE NO. 12 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 40

39.

CHECK FOR SHORT TO +B IN CAN BUS LINE (FORWARD RECOGNITION CAMERA - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Disconnect the U10 forward recognition camera connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(U10,K8)

Click Connector(U10)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U10-9 (CA1N) - K8-16 (BAT)		

OK GO TO STEP 46

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

40.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

- (a) Disconnect the R34 parking assist ECU connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R89,K8)

Click Connector(R89)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R89-5 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher



NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

41.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R108,K8)

Click Connector(R108)

Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-3 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R108-14 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

NG GO TO STEP 45



42.	CHECK VEHICLE TYPE	
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(a) Check vehicle type.

RESULT	PROCEED TO
w/ Intuitive Parking Assist System	А
w/o Intuitive Parking Assist System	В

B REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



43.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(R108,K8)
Click Connector(R108)
Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R108-13 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

OK > REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



44.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

- (a) Disconnect the R36 clearance warning ECU assembly connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



Click Connector(R108)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R108-13 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher



NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

45.

CHECK FOR SHORT TO +B IN CAN BUS LINE (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Disconnect the U10 forward recognition camera connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(U10,K8)

Click Connector(U10)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
U10-9 (CA1N) - K8-16 (BAT)		

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



46.

CHECK FOR SHORT TO +B IN CAN BUS LINE (FORWARD RECOGNITION CAMERA - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(U10,K8)

Click Connector(U10)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-2 (CA2P) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
U10-1 (CA2L) - K8-16 (BAT)	terminal	6 kΩ or higher

OK REPLACE FORWARD RECOGNITION CAMERA



47.

CHECK FOR SHORT TO +B IN CAN BUS LINE (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)

- (a) Disconnect the A21 millimeter wave radar sensor assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A21,K8)

Click Connector(A21)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-4 (CA2H) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
A21-3 (CA2L) - K8-16 (BAT)	terminal	6 kΩ or higher

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)





CHECK FOR SHORT TO +B IN CAN BUS LINE (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(A21,K8)

Click Connector(A21)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-10 (CA3H) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kΩ or higher
A21-9 (CA3L) - K8-16 (BAT)	termina	

OK REPLACE MILLIMETER WAVE RADAR SENSOR ASSEMBLY



49.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

- (a) Disconnect the A65 No. 2 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A65,K8)

Click Connector(A65)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-3 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
A65-7 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)



50.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - NO. 11 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(A65,K8)

Click Connector(A65)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
A65-5 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

NG GO TO STEP 54



51. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Front Side Radar Sensor System	A
w/o Front Side Radar Sensor System	В

B REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



52.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

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

Standard Resistance:



Click Location & Routing(A65,K8)
Click Connector(A65)
Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
A65-6 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

OK REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



53. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

- (a) Disconnect the A41 front side radar sensor (A) connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(A65,K8)</u> <u>Click Connector(A65)</u>

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 kO or higher
A65-6 (CANL) - K8-16 (BAT)		6 kΩ or higher

OK REPLACE FRONT SIDE RADAR SENSOR (A)

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

54. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Disconnect the R88 No. 11 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R88-5 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)



55. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

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

Standard Resistance:



Click Location & Routing(R88,K8)

R88-8 (CANL) - K8-16 (BAT)

Click Connector(R88)
Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED
		CONDITION
R88-4 (CANH) - K8-16		
(BAT)	Cable disconnected from negative (-) auxiliary battery	C kO or higher
	Laurain al	$6 \text{ k}\Omega$ or higher

NG GO TO STEP 57

terminal

OK



56. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

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

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R88-6 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

OK REPLACE NO. 11 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 58

57. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

- (a) Disconnect the R101 No. 2 CAN junction terminal connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)
Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k Ω or higher
R88-8 (CANL) - K8-16 (BAT)	terminal	o ksz or migner

OK > REPLACE NO. 2 CAN JUNCTION TERMINAL

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

58.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

- (a) Disconnect the S6 blind spot monitor sensor LH (B) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88,K8)

Click Connector(R88)

Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kO or higher
R88-6 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

- **OK** REPLACE BLIND SPOT MONITOR SENSOR LH (B)
- NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR BLIND SPOT MONITOR SENSOR LH (B))
- 59. CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the R108 No. 15 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R108)
Click Connector(R108)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - R108-12 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 62



60.	O. CHECK VEHICLE TYPE	
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(a) Check vehicle type.

RESULT	PROCEED TO
w/ Panoramic View Monitor System	A
w/o Panoramic View Monitor System	В

B GO TO STEP 68



61.

- CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR NO. 12 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R108)</u> <u>Click Connector(R108)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-4 (CANH) - R108-15 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK GO TO STEP 69

NG GO TO STEP 63

- 62. CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R108)
Click Connector(R108)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - R108-12 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

- 63. CHECK FOR SHORT IN CAN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR NO. 15 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Reconnect the R108 No. 15 global CAN junction connector.
- (b) Disconnect the R89 No. 12 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R89)</u> <u>Click Connector(R89)</u> 12/15/24, 11:42 AM

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-3 (CANH) - R89-7 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



64. CHECK FOR SHORT IN CAN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R89)
Click Connector(R89)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-2 (CANH) - R89-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω





65. CHECK FOR SHORT IN CAN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

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

Standard Resistance:



Click Location & Routing(R89)

Click Connector(R89)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - R89-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK REPLACE NO. 12 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 67

- 66. CHECK FOR SHORT IN CAN BUS LINES (FORWARD RECOGNITION CAMERA NO. 12 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Reconnect the R89 No. 12 global CAN junction connector.
- (b) Disconnect the U10 forward recognition camera connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(U10)</u> <u>Click Connector(U10)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - U10-9 (CA1N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK GO TO STEP 73

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

- 67. CHECK FOR SHORT IN CAN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR PARKING ASSIST ECU)
- (a) Disconnect the R34 parking assist ECU connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R89)</u> <u>Click Connector(R89)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-1 (CANH) - R89-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE PARKING ASSIST ECU

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - PARKING ASSIST ECU)

68. CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



<u>Click Location & Routing(R108)</u> <u>Click Connector(R108)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-3 (CANH) - R108-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 72



69.	CHECK VEHICLE TYPE	
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(a) Check vehicle type.

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RESULT	PROCEED TO
w/ Intuitive Parking Assist System	А
w/o Intuitive Parking Assist System	В

B REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



70. CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(R108)</u> <u>Click Connector(R108)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-2 (CANH) - R108-13 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK > REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



71.

CHECK FOR SHORT IN CAN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

- (a) Disconnect the R36 clearance warning ECU assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R108)

Click Connector(R108)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-2 (CANH) - R108-13 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE CLEARANCE WARNING ECU ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CLEARANCE WARNING ECU ASSEMBLY)

72. CHECK FOR SHORT IN CAN BUS LINES (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Reconnect the R108 No. 15 global CAN junction connector.
- (b) Disconnect the U10 forward recognition camera connector.
- (c) Measure the resistance according to the value(s) in the table below. Standard Resistance:

EWD INFO

Click Location & Routing(U10) Click Connector(U10)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - U10-9 (CA1N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



73.

CHECK FOR SHORT IN CAN BUS LINES (FORWARD RECOGNITION CAMERA - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

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

Standard Resistance:

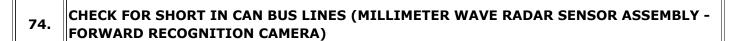


<u>Click Location & Routing(U10)</u> <u>Click Connector(U10)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-2 (CA2P) - U10-1 (CA2L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE FORWARD RECOGNITION CAMERA





- (a) Reconnect the U10 forward recognition camera connector.
- (b) Disconnect the A21 millimeter wave radar sensor assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



Click Location & Routing(A21) Click Connector(A21)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-4 (CA2H) - A21-3 (CA2L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)



CHECK FOR SHORT IN CAN BUS LINES (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(A21) Click Connector(A21)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-10 (CA3H) - A21-9 (CA3L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω







CHECK FOR SHORT IN CAN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

- (a) Reconnect the A21 millimeter wave radar sensor assembly connector.
- (b) Disconnect the A65 No. 2 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(A65)</u> <u>Click Connector(A65)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-3 (CANH) - A65-7 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)



CHECK FOR SHORT IN CAN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - NO. 11 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



<u>Click Location & Routing(A65)</u> <u>Click Connector(A65)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-1 (CANH) - A65-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 81



78. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Front Side Radar Sensor System	А
w/o Front Side Radar Sensor System	В

B REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



CHECK FOR SHORT IN CAN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

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

Standard Resistance:



Click Location & Routing(A65)
Click Connector(A65)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - A65-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



80. CHECK FOR SHORT IN CAN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

- (a) Disconnect the A41 front side radar sensor (A) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A65)
Click Connector(A65)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-2 (CANH) - A65-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE FRONT SIDE RADAR SENSOR (A)

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - FRONT SIDE RADAR SENSOR (A))

81. CHECK FOR SHORT IN CAN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Reconnect the A65 No. 2 global CAN junction connector.
- (b) Disconnect the R88 No. 11 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R88)</u> <u>Click Connector(R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-1 (CANH) - R88-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)



82. CHECK FOR SHORT IN CAN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

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

Standard Resistance:



<u>Click Location & Routing(R88)</u> <u>Click Connector(R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - R88-8 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 84



CHECK FOR SHORT IN CAN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

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

Standard Resistance:



<u>Click Location & Routing(R88)</u> <u>Click Connector(R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - R88-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	$200~\Omega$ or higher



NG GO TO STEP 85

84.

CHECK FOR SHORT IN CAN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

- (a) Disconnect the R101 No. 2 CAN junction terminal connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Connector (PSS)

Click	Connector	(<u>R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - R88-8 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE NO. 2 CAN JUNCTION TERMINAL

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION

CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

85.

CHECK FOR SHORT IN CAN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

- (a) Disconnect the S6 blind spot monitor sensor LH (B) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R88) Click Connector(R88)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-2 (CANH) - R88-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	$1~\text{M}\Omega$ or higher

OK REPLACE BLIND SPOT MONITOR SENSOR LH (B)

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - BLIND SPOT MONITOR SENSOR LH (B))

86.

CHECK FOR OPEN IN CAN MAIN BUS LINES (CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

- (a) Disconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K78) Click Connector(K78)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-28 (CA1H) - K78-27 (CA1L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)



- 87.
- CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Reconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Disconnect the R108 No. 15 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(R108) Click Connector(R108)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-1 (CANH) - R108-12 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))



88.

CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Panoramic View Monitor System	А
w/o Panoramic View Monitor System	В

B GO TO STEP 93



CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(R108) Click Connector(R108)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-4 (CANH) - R108-15 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR





90.

CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Reconnect the R108 No. 15 global CAN junction connector.
- (b) Disconnect the R89 No. 12 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R89)</u> <u>Click Connector(R89)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-3 (CANH) - R89-7 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



91. CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 12 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



<u>Click Location & Routing(R89)</u> <u>Click Connector(R89)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R89-2 (CANH) - R89-6 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE NO. 12 GLOBAL CAN JUNCTION CONNECTOR



- 92. CHECK FOR OPEN IN CAN MAIN BUS LINES (FORWARD RECOGNITION CAMERA NO. 12 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Reconnect the R89 No. 12 global CAN junction connector.
- (b) Disconnect the U10 forward recognition camera connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(U10)
Click Connector(U10)

12/15/24, 11:42 AM

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - U10-9 (CA1N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK GO TO STEP 95

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 12 GLOBAL CAN JUNCTION CONNECTOR)

93. CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 15 GLOBAL CAN JUNCTION CONNECTOR - FORWARD RECOGNITION CAMERA)

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

Standard Resistance:



Click Location & Routing(R108)
Click Connector(R108)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R108-3 (CANH) - R108-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK > REPLACE NO. 15 GLOBAL CAN JUNCTION CONNECTOR



94.

CHECK FOR OPEN IN CAN MAIN BUS LINES (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Reconnect the R108 No. 15 global CAN junction connector.
- (b) Disconnect the U10 forward recognition camera connector.
- (c) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



Click Location & Routing(U10)

Click Connector(U10)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-10 (CA1P) - U10-9 (CA1N)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (FORWARD RECOGNITION CAMERA - NO. 15 GLOBAL CAN JUNCTION CONNECTOR)



95. CHECK FOR OPEN IN CAN MAIN BUS LINES (FORWARD RECOGNITION CAMERA - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(U10)</u> <u>Click Connector(U10)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
U10-2 (CA2P) - U10-1 (CA2L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE FORWARD RECOGNITION CAMERA



96.

CHECK FOR OPEN IN CAN MAIN BUS LINES (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)

- (a) Reconnect the U10 forward recognition camera connector.
- (b) Disconnect the A21 millimeter wave radar sensor assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(A21) Click Connector(A21)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-4 (CA2H) - A21-3 (CA2L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (MILLIMETER WAVE RADAR SENSOR ASSEMBLY - FORWARD RECOGNITION CAMERA)



- 97. CHECK FOR OPEN IN CAN MAIN BUS LINES (MILLIMETER WAVE RADAR SENSOR ASSEMBLY NO. 2 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



Click Location & Routing(A21) Click Connector(A21)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A21-10 (CA3H) - A21-9 (CA3L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE MILLIMETER WAVE RADAR SENSOR ASSEMBLY



98.

- CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR MILLIMETER WAVE RADAR SENSOR ASSEMBLY)
- (a) Reconnect the A21 millimeter wave radar sensor assembly connector.

- (b) Disconnect the A65 No. 2 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(A65)</u> <u>Click Connector(A65)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-3 (CANH) - A65-7 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - MILLIMETER WAVE RADAR SENSOR ASSEMBLY)



99.

CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 2 GLOBAL CAN JUNCTION CONNECTOR - NO. 11 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



<u>Click Location & Routing(A65)</u> <u>Click Connector(A65)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A65-1 (CANH) - A65-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE NO. 2 GLOBAL CAN JUNCTION CONNECTOR



CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)

- (a) Reconnect the A65 No. 2 global CAN junction connector.
- (b) Disconnect the R88 No. 11 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R88)</u> <u>Click Connector(R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-1 (CANH) - R88-5 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 GLOBAL CAN JUNCTION CONNECTOR)



101.

CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 11 GLOBAL CAN JUNCTION CONNECTOR - NO. 2 CAN JUNCTION TERMINAL)

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

Standard Resistance:



<u>Click Location & Routing(R88)</u> <u>Click Connector(R88)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R88-4 (CANH) - R88-8 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE NO. 11 GLOBAL CAN JUNCTION CONNECTOR



CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 2 CAN JUNCTION TERMINAL)

- (a) Reconnect the R88 No. 11 global CAN junction connector.
- (b) Disconnect the R101 No. 2 CAN junction terminal connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(R101)</u> <u>Click Connector(R101)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
R101-3 (CANH) - R101-2 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK > REPLACE NO. 2 CAN JUNCTION TERMINAL

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 2 CAN JUNCTION TERMINAL - NO. 11 GLOBAL CAN JUNCTION CONNECTOR)



