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Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029BAF		
Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 -]		
Title: NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): Check Bus 3 Line; 2023 - 2024 MY Prius				
[12/2022 -]				

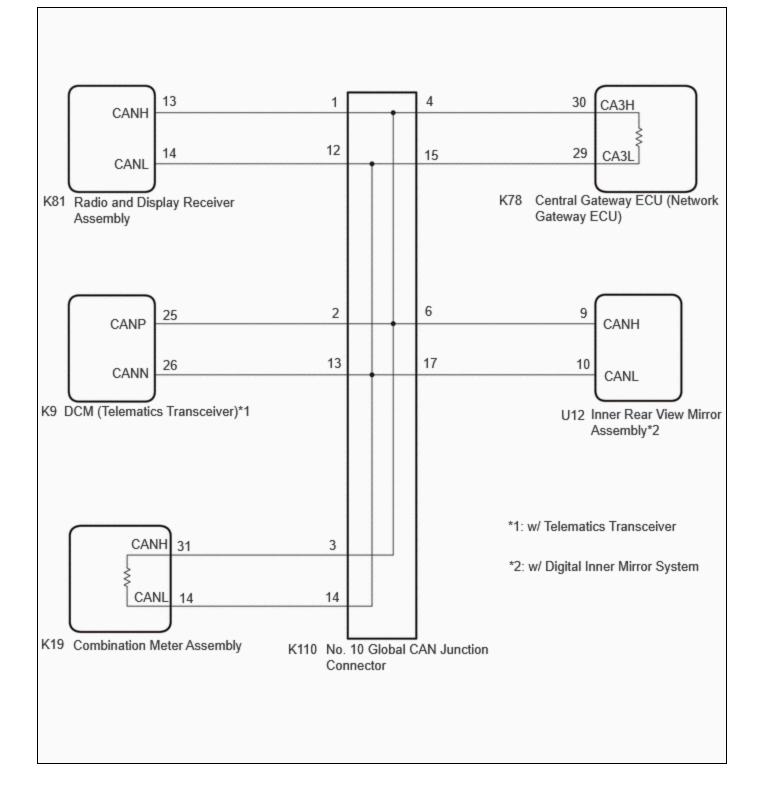
Check Bus 3 Line

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) DCM (telematics transceiver) (w/ Telematics Transceiver) Inner rear view mirror assembly (w/ Digital Inner Mirror System) Radio and display receiver assembly Combination meter assembly No. 10 global CAN junction connector

WIRING DIAGRAM

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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

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- 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

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

Click here

• 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

• Before replacing the DCM (telematics transceiver), refer to Registration.

Click here

HINT:

- 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

K78-29 (CA3L)

1.

CHECK FOR OPEN IN CAN MAIN BUS LINES

from negative (-)

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

	(b) Moscura tha r	osistanco according to	the value(c)	
	(b) Measure the resistance according to the value(s) in the table below.			*a CA3L K78
Standard Resistance:				
	EWD INF	0		
	Click Location & F Click Connector(F			
	TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	САЗН
	K78-30 (CA3H) -	Cable disconnected	Below 70 Ω	1 1

*a Component with harness connected

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	
	auxiliary battery terminal		

(Central Gateway ECU (Network Gateway ECU))

K78

987654321

26252423 22212019

NG GO TO STEP 41

*a

CA3L*

34 33 32 31

181716151413121110

30292827



2. CHECK FOR SHORT IN CAN BUS LINES

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

Standard Resistance:



<u>Click Location & Routing(K78)</u> <u>Click Connector(K78)</u>

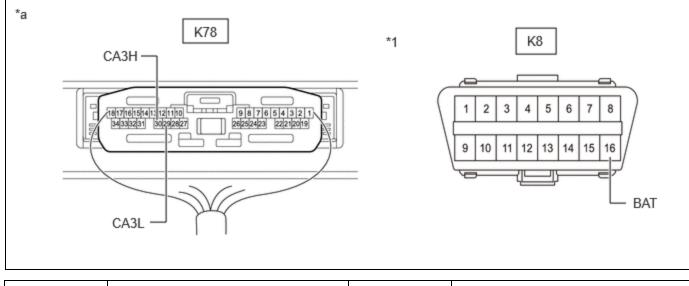
_				
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION		САЗН
K78-30 (CA3H) - K78-29 (CA3L)	Cable disconnected from negative (-) auxiliary battery terminal	54 Ω or higher	*a	Component with harness connected (Central Gateway ECU (Network Gateway ECU))



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

Standard Resistance:

EWD INFO

<u>Click Location & Routing(K78,K8)</u> <u>Click Connector(K78)</u> <u>Click Connector(K8)</u>

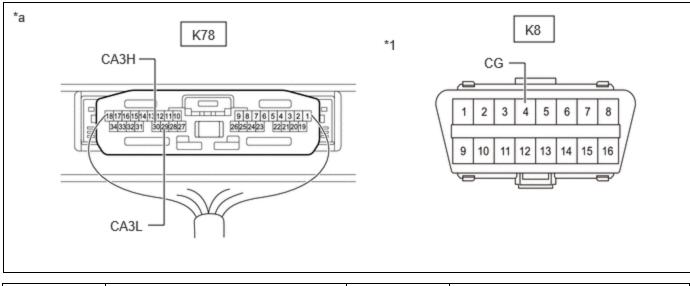
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-30 (CA3H) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k0 or higher
K78-29 (CA3L) - K8-16 (BAT)	terminal	6 kΩ or higher

NG GO TO STEP 17

ок

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:



<u>Click Location & Routing(K78,K8)</u> <u>Click Connector(K78)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-30 (CA3H) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher
K78-29 (CA3L) - K8-4 (CG)		

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)



5.

CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

(a) Disconnect the K110 No. 10 global CAN junction connector.

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-15 (CANL) - K8-4 (CG)	terminal	200 Ω or higher



OK

6. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-14 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

NG GO TO STEP 13



7. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-12 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

NG GO TO STEP 14



8.	CHECK VEHICLE TYPE	
8.		

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Telematics Transceiver	A
w/o Telematics Transceiver	В





9. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-13 (CANL) - K8-4 (CG)	terminal	200 Ω or higher



OK

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

RESULT	PROCEED TO
w/ Digital Inner Mirror System	A
w/o Digital Inner Mirror System	В

B REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR



11. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(K110,K8)

Click Connector(K110) Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-17 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR





CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 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

<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-15 (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. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

13. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

(a) Disconnect the K19 combination meter assembly connector.

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-14 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE COMBINATION METER ASSEMBLY

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

14. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

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

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

Standard Resistance:

EWD INFO

Click Location & Routing(K110,K8) Click Connector(K110) Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-12 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

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15. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

- (a) Disconnect the K9 DCM (telematics transceiver) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-2 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-13 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE DCM (TELEMATICS TRANSCEIVER)

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

16. CHECK FOR SHORT TO GND IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

- (a) Disconnect the U12 inner rear view mirror assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K8-4 (CG)	Cable disconnected from negative (-) auxiliary battery	
K110-17 (CANL) - K8-4 (CG)	terminal	200 Ω or higher

OK REPLACE INNER REAR VIEW MIRROR ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

17.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

(a) Disconnect the K110 No. 10 global CAN junction connector.

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k0 or higher
K110-15 (CANL) - K8-16 (BAT)	terminal	6 kΩ or higher

NG GO TO STEP 24

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18. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(K110,K8) Click Connector(K110) Click Connector(K8)

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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kΩ or higher
K110-14 (CANL) - K8-16 (BAT)	terminal	o ksz or higher

NG GO TO STEP 25



19. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k0 or highor
K110-12 (CANL) - K8-16 (BAT)	terminal	6 k Ω or higher

NG GO TO STEP 26

ОК	

20. CHECK VEHICLE TYPE

(a) Check vehicle type.

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RESULT	PROCEED TO
w/ Telematics Transceiver	А
w/o Telematics Transceiver	В





21. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k0 or higher
K110-13 (CANL) - K8-16 (BAT)	terminal	6 k Ω or higher

NG GO TO STEP 27



22. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Digital Inner Mirror System	А
w/o Digital Inner Mirror System	В

B REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR

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23. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

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

Standard Resistance:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kΩ or higher
K110-17 (CANL) - K8-16 (BAT)	terminal	o ksz or nigher

OK REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 28

24. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 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:



<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kΩ or higher
K110-15 (CANL) - K8-16 (BAT)	terminal	o ksz or higher

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

25.

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

- (a) Disconnect the K19 combination meter assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(K110,K8) Click Connector(K110) Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	(k0 or higher
K110-14 (CANL) - K8-16 (BAT)	terminal	6 k Ω or higher

OK REPLACE COMBINATION METER ASSEMBLY

NG REPAIR OR REPLACE CAN MAIN BUS LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION 26. CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

- (a) Disconnect the K81 radio and display receiver assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K110,K8) Click Connector(K110) **Click Connector(K8)**

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 k0 or higher
K110-12 (CANL) - K8-6 (BAT)	terminal	6 kΩ or higher

OK REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY

NG PREPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION 27. CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

- (a) Disconnect the K9 DCM (telematics transceiver) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K110,K8) Click Connector(K110) Click Connector(K8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-2 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery terminal	6 k Ω or higher

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TESTER CONNECTION	CONDITION	SPECIFIED
		CONDITION
K110-13 (CANL) - K8-16 (BAT)		

OK REPLACE DCM (TELEMATICS TRANSCEIVER)

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

28. CHECK FOR SHORT TO +B IN CAN BUS LINE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

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

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

Standard Resistance:

EWD INFO

<u>Click Location & Routing(K110,K8)</u> <u>Click Connector(K110)</u> <u>Click Connector(K8)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K8-16 (BAT)	Cable disconnected from negative (-) auxiliary battery	6 kΩ or higher
K110-17 (CANL) - K8-16 (BAT)	terminal	o ksz or higher

OK REPLACE INNER REAR VIEW MIRROR ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)



CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR -CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

- (a) Disconnect the K110 No. 10 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K110-15 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 36



30. CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K110-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG GO TO STEP 37



31.

CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K110-12 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

NG GO TO STEP 38

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

RESULT	PROCEED TO
w/ Telematics Transceiver	А
w/o Telematics Transceiver	В



A

33. CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

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

Standard Resistance:



<u>Click Location & Routing(K110)</u> <u>Click Connector(K110)</u>

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	TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
k	<110-2 (CANH) - K110-13 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

NG GO TO STEP 39

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

RESULT	PROCEED TO
w/ Digital Inner Mirror System	A
w/o Digital Inner Mirror System	В

B REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR

A

35.

CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR -INNER REAR VIEW MIRROR ASSEMBLY)

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

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K110-17 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	200 Ω or higher

OK REPLACE NO. 10 GLOBAL CAN JUNCTION CONNECTOR

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NG GO TO STEP 40

36.

CHECK FOR SHORT IN CAN BUS LINES (NO. 10 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(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K110-15 (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. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

37.

CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)

(a) Disconnect the K19 combination meter assembly connector.

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

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K110-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE COMBINATION METER ASSEMBLY

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY)



CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR -RADIO AND DISPLAY RECEIVER ASSEMBLY)

- (a) Disconnect the K81 radio and display receiver assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(K110)</u> <u>Click Connector(K110)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-1 (CANH) - K110-12 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	1 M Ω or higher

OK REPLACE RADIO AND DISPLAY RECEIVER ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - RADIO AND DISPLAY RECEIVER ASSEMBLY)

39.

CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

- (a) Disconnect the K9 DCM (telematics transceiver) connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-2 (CANH) - K110-13 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	$1~\text{M}\Omega$ or higher

OK REPLACE DCM (TELEMATICS TRANSCEIVER)

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - DCM (TELEMATICS TRANSCEIVER))

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40. CHECK FOR SHORT IN CAN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR -INNER REAR VIEW MIRROR ASSEMBLY)

- (a) Disconnect the U12 inner rear view mirror assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-6 (CANH) - K110-17 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	$1~\text{M}\Omega$ or higher

OK REPLACE INNER REAR VIEW MIRROR ASSEMBLY

NG REPAIR OR REPLACE CAN BRANCH LINES OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - INNER REAR VIEW MIRROR ASSEMBLY)

41. 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:

EWD INFO

Click Location & Routing(K78)

Click Connector(K78)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K78-30 (CA3H) - K78-29 (CA3L)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)

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42. CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

- (a) Reconnect the K78 central gateway ECU (network gateway ECU) connector.
- (b) Disconnect the K110 No. 10 global CAN junction connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



<u>Click Location & Routing(K110)</u> <u>Click Connector(K110)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-4 (CANH) - K110-15 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))



43. CHECK FOR OPEN IN CAN MAIN BUS LINES (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - COMBINATION METER ASSEMBLY) 12/15/24, 11:25 AM NETWORKING: CAN COMMUNICATION SYSTEM (for HEV Model): Check Bus 3 Line; 2023 - 2024 MY Prius [12/2022 -]

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

Standard Resistance:



Click Location & Routing(K110) Click Connector(K110)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K110-3 (CANH) - K110-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω





44. CHECK FOR OPEN IN CAN MAIN BUS LINES (COMBINATION METER ASSEMBLY)

- (a) Reconnect the K110 No. 10 global CAN junction connector.
- (b) Disconnect the K19 combination meter assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(K19) Click Connector(K19)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K19-31 (CANH) - K19-14 (CANL)	Cable disconnected from negative (-) auxiliary battery terminal	108 to 132 Ω

OK REPLACE COMBINATION METER ASSEMBLY

NG REPAIR OR REPLACE CAN MAIN BUS LINES OR CONNECTOR (COMBINATION METER ASSEMBLY - NO. 10 GLOBAL CAN JUNCTION CONNECTOR)

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