

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029X7Y
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: NETWORKING: CXPI COMMUNICATION SYSTEM: B235587,B235787-B235987; Power Distribution Box Missing Message; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B235587	Power Distribution Box Missing Message
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DTC	B235787	Wiper Module Missing Message
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DTC	B235887	Smart LDM Left Missing Message
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DTC	B235987	Smart LDM Right Missing Message
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DESCRIPTION

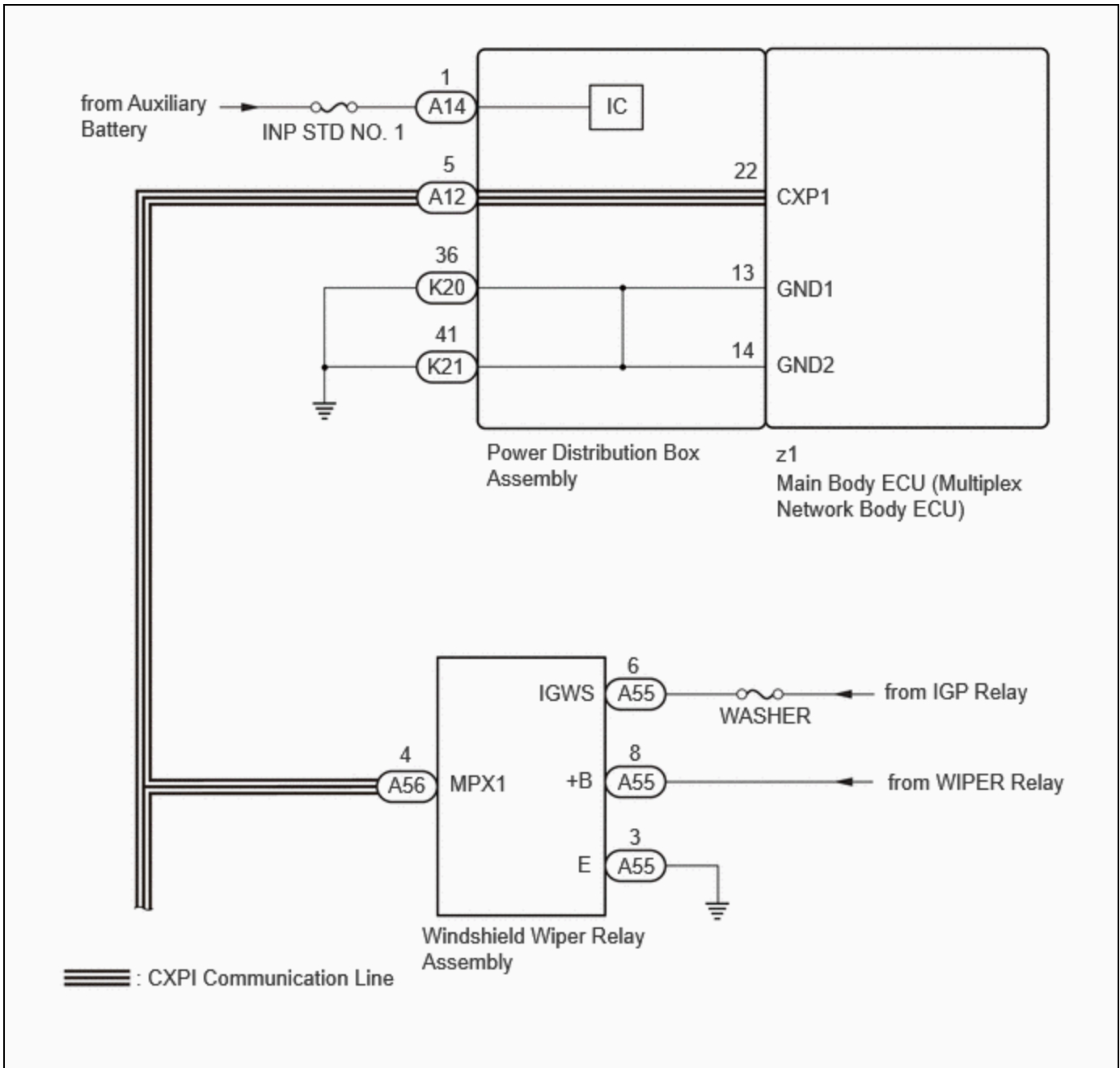
This DTC is stored when CXPI communication between the power distribution box assembly, windshield wiper relay assembly, headlight housing sub-assembly LH or headlight housing sub-assembly RH and main body ECU (multiplex network body ECU) stops for 10 seconds or more.

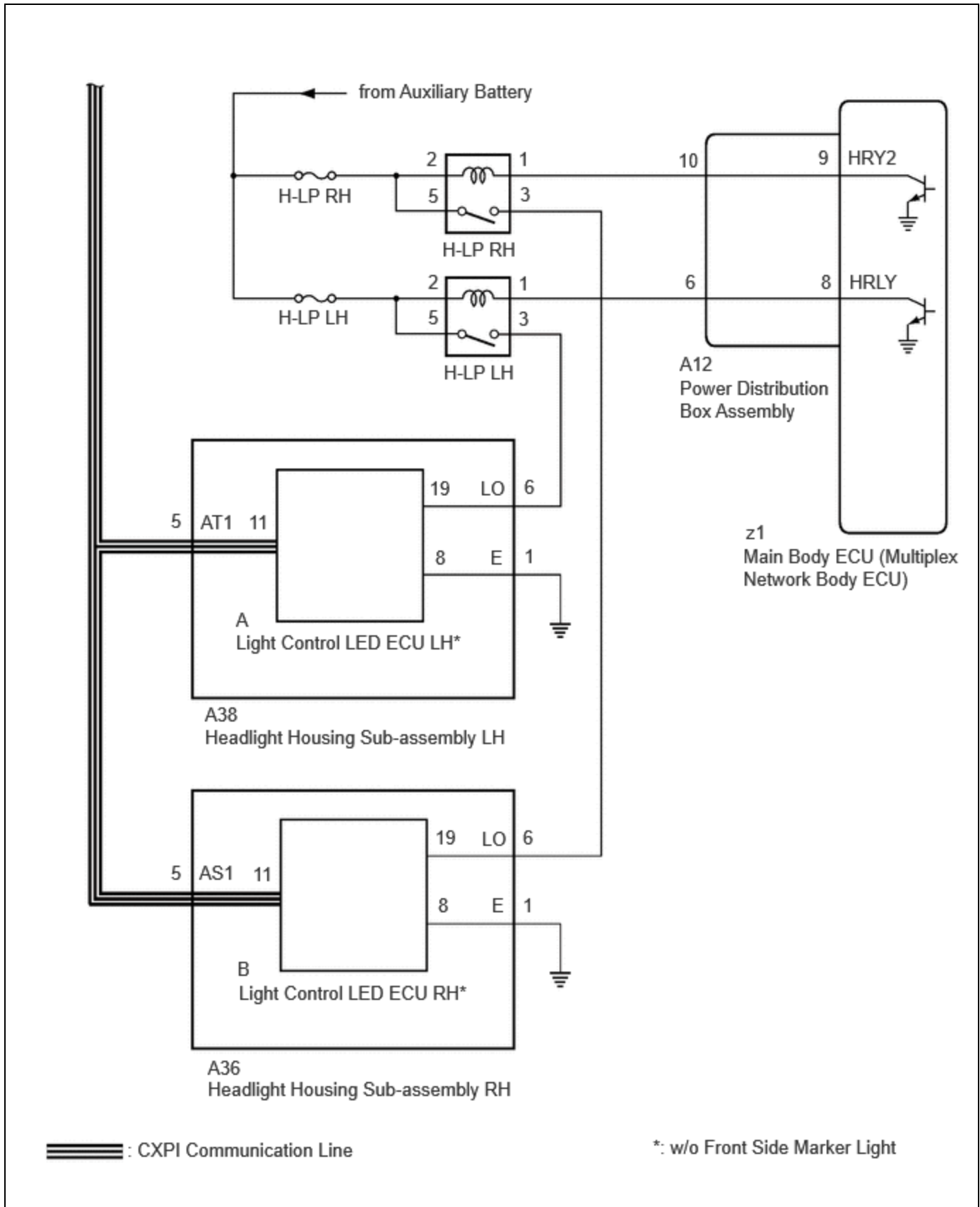
DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B235587	Power Distribution Box Missing Message	No communication between power distribution box assembly and main body ECU (multiplex network body ECU) for 10 seconds or more	<ul style="list-style-type: none"> Main body ECU (multiplex network body ECU) Power distribution box assembly Harness or connector 	Main Body	A
B235787	Wiper Module Missing Message	No communication between windshield wiper relay assembly and main body ECU (multiplex network body ECU) for 10 seconds or more	<ul style="list-style-type: none"> Main body ECU (multiplex network body ECU) Windshield wiper relay assembly Harness or connector 	Main Body	A
B235887	Smart LDM Left Missing Message	No communication between headlight housing sub-assembly LH and main body ECU (multiplex	<ul style="list-style-type: none"> Main body ECU (multiplex 	Main Body	A

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
		network body ECU) for 10 seconds or more	network body ECU) <ul style="list-style-type: none"> • Power distribution box assembly • Light control LED ECU LH* • Headlight housing sub-assembly LH • Harness or connector 		
B235987	Smart LDM Right Missing Message	No communication between headlight housing sub-assembly RH and main body ECU (multiplex network body ECU) for 10 seconds or more	<ul style="list-style-type: none"> • Main body ECU (multiplex network body ECU) • Power distribution box assembly • Light control LED ECU RH* • Headlight housing sub-assembly RH • Harness or connector 	Main Body	A

*: w/o Front Side Marker Light

WIRING DIAGRAM





CAUTION / NOTICE / HINT

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following procedure.

- Do not remove or install the power distribution box assembly with the negative (-) auxiliary battery terminal connected.
- When using the GTS with the ignition switch off, connect the GTS to the DLC3 and turn a courtesy light switch on and off at intervals of 1.5 seconds or less until communication between the GTS and the vehicle begins. Then select Model Code "KEY REGIST" under manual mode and enter the following menus: Body Electrical / Smart Key. While using the GTS, periodically turn a courtesy light switch on and off at intervals of 1.5 seconds or less to maintain communication between the GTS and the vehicle.
- If the main body ECU (multiplex network body ECU) is replaced, refer to Registration.

[Click here](#) INFO

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

[Click here](#) INFO

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

PROCEDURE

1.	CLEAR DTC
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(a) Clear the DTCs.

Body Electrical > Main Body > Clear DTCs

NEXT



2.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Main Body > Trouble Codes

RESULT	PROCEED TO
B235587, B235787, B235887 and B235987 are output	A
B235787, B235887 and B235987 are output	B
B235587 is output	C
B235787 is output	D
B235887 is output	E

RESULT	PROCEED TO
B235987 is output	F
DTCs are not output	G

B ► GO TO STEP 4

C ► GO TO STEP 5

D ► GO TO STEP 7

E ► GO TO STEP 10

F ► GO TO STEP 20

G ► USE SIMULATION METHOD TO CHECK

A
▼

3.	INSPECT POWER DISTRIBUTION BOX ASSEMBLY
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Pre-procedure1

(a) Remove the power distribution box assembly.

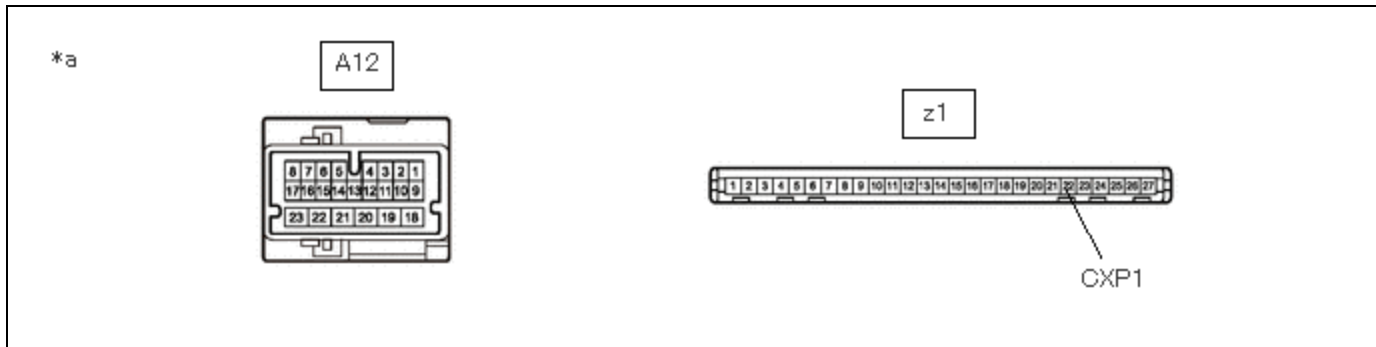
HINT:

[Click here](#) INFO

(b) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

Procedure1

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



*a	Component without harness connected (Power Distribution Box Assembly)	-	-
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Standard Resistance

[Click Location & Routing\(z1,A12\)](#)

[Click Connector\(z1\)](#)

[Click Connector\(A12\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
z1-22 (CXP1) - A12-5	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

OK **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

NG **REPLACE POWER DISTRIBUTION BOX ASSEMBLY**

4.	CHECK HARNESS AND CONNECTOR (POWER DISTRIBUTION BOX ASSEMBLY - WINDSHIELD WIPER RELAY ASSEMBLY)
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Pre-procedure1

- (a) Disconnect the cable from the negative (-) auxiliary battery terminal.
- (b) Disconnect the A12 power distribution box assembly connector.
- (c) Disconnect the A56 windshield wiper relay assembly connector.
- (d) Disconnect the A36 headlight housing sub-assembly RH connector.
- (e) Disconnect the A38 headlight housing sub-assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A12,A56\)](#)

[Click Connector\(A12\)](#)

[Click Connector\(A56\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A12-5 - A56-4 (MPX1)	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω	Ω
A12-5 or A56-4 (MPX1) - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	10 k Ω or higher	k Ω

Post-procedure1

(g) None

OK  **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)** 

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

5.	CHECK HARNESS AND CONNECTOR (POWER DISTRIBUTION BOX ASSEMBLY - POWER SOURCE)
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Pre-procedure1

(a) Disconnect the A14 power distribution box assembly connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(A14\).](#)

[Click Connector\(A14\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A14-1 - Body ground	Ignition switch off	11 to 14 V	V

Post-procedure1

(c) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



6.	CHECK HARNESS AND CONNECTOR (POWER DISTRIBUTION BOX ASSEMBLY - BODY GROUND)
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Pre-procedure1

(a) Disconnect the K21 power distribution box assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(K21\)](#)

[Click Connector\(K21\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K21-41 - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

OK **REPLACE POWER DISTRIBUTION BOX ASSEMBLY**
INFO

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

7.	CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER RELAY ASSEMBLY - POWER SOURCE)
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Pre-procedure1

(a) Disconnect the A55 windshield wiper relay assembly connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(A55\)](#)

[Click Connector\(A55\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A55-6 (IGWS) - Body ground	Ignition switch ON	11 to 14 V	V

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A55-8 (+B) - Body ground	Ignition switch ON or less than approximately 60 seconds after ignition switch turned off	11 to 14 V	V
A55-8 (+B) - Body ground	Approximately 60 seconds or more after ignition switch turned off	11 to 14 V	V

Post-procedure1

(c) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



8.	CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER RELAY ASSEMBLY - BODY GROUND)
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(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(A55\)](#)

[Click Connector\(A55\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A55-3 (E) - Body ground	Always	Below 1 Ω	Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



9.	CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER RELAY ASSEMBLY - POWER DISTRIBUTION BOX ASSEMBLY)
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Pre-procedure1

(a) Turn the ignition switch off.

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

(c) Disconnect the A56 windshield wiper relay assembly connector.

(d) Disconnect the A12 power distribution box assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A56,A12\).](#)

[Click Connector\(A56\).](#)

[Click Connector\(A12\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A56-4 (MPX1) - A12-5	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω	Ω
A56-4 (MPX1) or A12-5 - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	10 k Ω or higher	k Ω

Post-procedure1

(f) None

OK **REPLACE WINDSHIELD WIPER RELAY ASSEMBLY**

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

10.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY LH - POWER SOURCE)
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Pre-procedure1

(a) Disconnect the A38 headlight housing sub-assembly LH connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(A38\).](#)

[Click Connector\(A38\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-6 (LO) - Body ground	Taillight on	9.5 to 14 V	V

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-6 (LO) - Body ground	Taillight off	Below 1 V	V

Post-procedure1

(c) None

NG  **GO TO STEP 15**

OK


11.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY LH - BODY GROUND)
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(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

[Click Connector\(A38\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-1 (E) - Body ground	Always	Below 1 Ω	Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


12.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY LH - POWER DISTRIBUTION BOX ASSEMBLY)
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Pre-procedure1

- (a) Turn the ignition switch off.
- (b) Disconnect the cable from the negative (-) auxiliary battery terminal.
- (c) Disconnect the A12 power distribution box assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A38,A12\).](#)

[Click Connector\(A38\).](#)

[Click Connector\(A12\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-5 (AT1) - A12-5	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω	Ω
A38-5 (AT1) or A12-5 - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	10 kΩ or higher	kΩ

Post-procedure1

(e) None

NG ▶ REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



13.	SYSTEM CHECK
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(a) Check the vehicle specification.

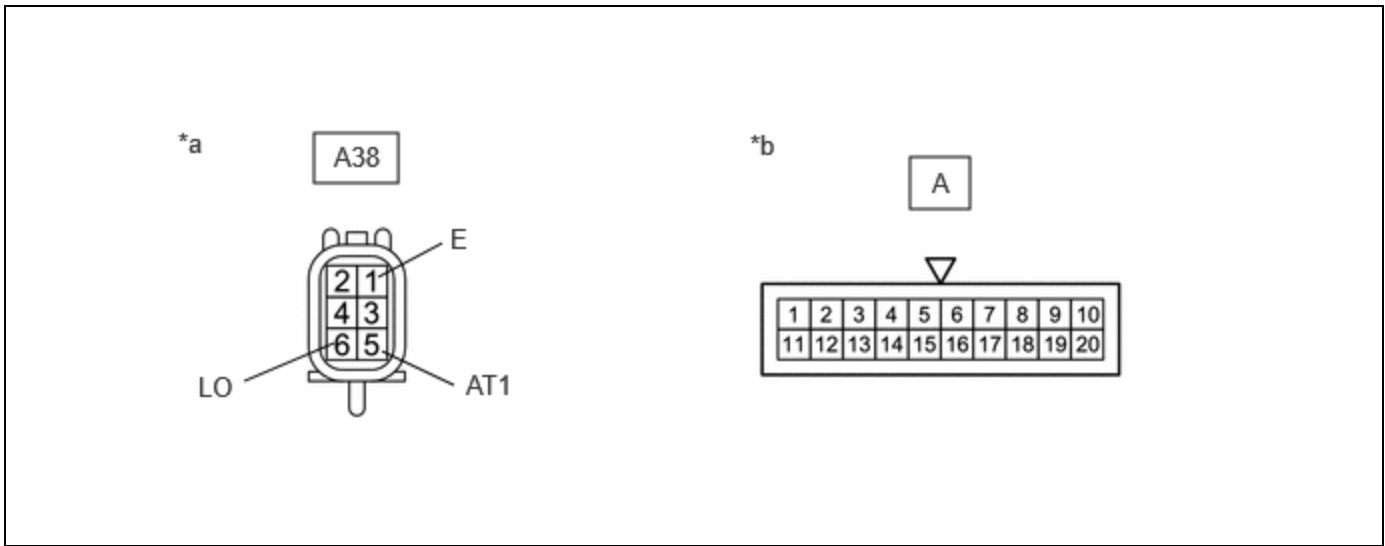
RESULT	PROCEED TO
w/ Front Side Marker Light	A
w/o Front Side Marker Light	B

A ▶ REPLACE HEADLIGHT HOUSING SUB-ASSEMBLY LH

B



14.	INSPECT HEADLIGHT HOUSING SUB-ASSEMBLY LH
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*a	Component without harness connected (to Vehicle Wire Harness)	*b	Component without harness connected (to Light Control LED ECU LH)
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(a) Remove the light control LED ECU LH connector.

HINT:

[Click here](#) INFO

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

Standard Resistance:



[Click Location & Routing\(A38\).](#)
[Click Connector\(A38\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-5 (AT1) - A-11	Always	Below 1 Ω	Ω
A38-6 (LO) - A-19	Always	Below 1 Ω	Ω
A38-1 (E) - A-8	Always	Below 1 Ω	Ω

OK ► REPLACE LIGHT CONTROL LED ECU LH

NG ► REPLACE HEADLIGHT HOUSING SUB-ASSEMBLY LH

15.	INSPECT H-LP LH RELAY
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HINT:

[Click here](#) INFO

NG ► REPLACE H-LP LH RELAY

OK

16.	CHECK HARNESS AND CONNECTOR (H-LP LH RELAY - HEADLIGHT HOUSING SUB-ASSEMBLY LH)
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(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(A38\).](#)

[Click Connector\(A38\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
3 (H-LP LH relay) - A38-6 (LO)	Always	Below 1 Ω	Ω
3 (H-LP LH relay) or A38-6 (LO) - Body ground	Always	10 k Ω or higher	k Ω

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

17.	CHECK HARNESS AND CONNECTOR (POWER SOURCE - H-LP LH RELAY)
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(a) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
2 (H-LP LH relay) - Body ground	Ignition switch off	11 to 14 V	V
5 (H-LP LH relay) - Body ground	Ignition switch off	11 to 14 V	V

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

18.**CHECK HARNESS AND CONNECTOR (H-LP LH RELAY - POWER DISTRIBUTION BOX ASSEMBLY)**

Pre-procedure1

(a) Disconnect the A12 power distribution box assembly connector.

Procedure1

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

Standard Resistance:

[Click Location & Routing\(A12\)](#)[Click Connector\(A12\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (H-LP LH relay) - A12-6	Always	Below 1 Ω	Ω
1 (H-LP LH relay) or A12-6 - Body ground	Always	10 k Ω or higher	k Ω

Post-procedure1

(c) None

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****19.****INSPECT POWER DISTRIBUTION BOX ASSEMBLY**

Pre-procedure1

(a) Remove the power distribution box assembly.

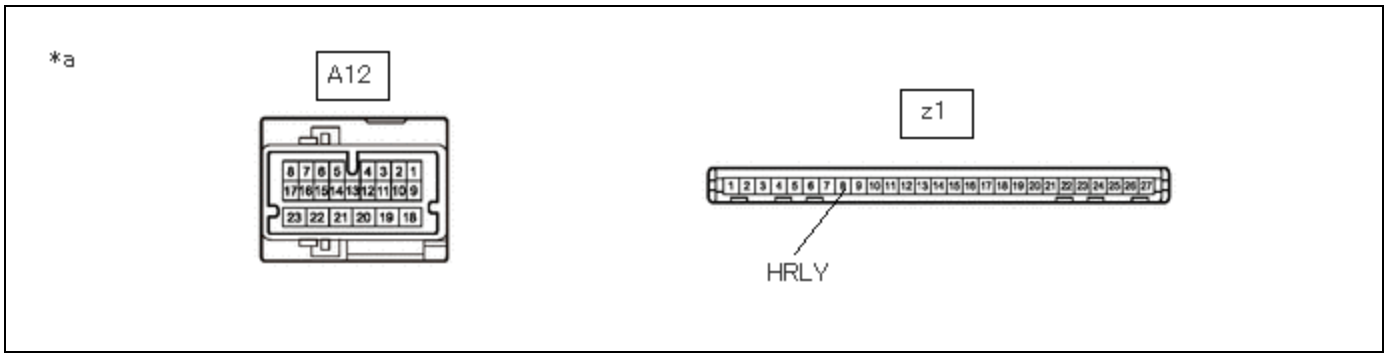
HINT:

Click here

(b) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

Procedure1

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



*a	Component without harness connected (Power Distribution Box Assembly)	-	-
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Standard Resistance:



[Click Location & Routing\(A12,z1\)](#)

[Click Connector\(A12\)](#)

[Click Connector\(z1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A12-6 - z1-8 (HRLY)	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) [INFO](#)

NG ► REPLACE POWER DISTRIBUTION BOX ASSEMBLY [INFO](#)

20.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY RH - POWER SOURCE)
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Pre-procedure1

(a) Disconnect the A36 headlight housing sub-assembly RH connector.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(A36\)](#)

[Click Connector\(A36\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-6 (LO) - Body ground	Taillight on	9.5 to 14 V	V
A36-6 (LO) - Body ground	Taillight off	Below 1 V	V

Post-procedure1

(c) None

NG  **GO TO STEP 25**

OK



21.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY RH - BODY GROUND)
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(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(A36\)](#)

[Click Connector\(A36\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-1 (E) - Body ground	Always	Below 1 Ω	Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



22.	CHECK HARNESS AND CONNECTOR (HEADLIGHT HOUSING SUB-ASSEMBLY RH - POWER DISTRIBUTION BOX ASSEMBLY)
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Pre-procedure1

(a) Turn the ignition switch off.

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

(c) Disconnect the A12 power distribution box assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A36,A12\).](#)

[Click Connector\(A36\).](#)

[Click Connector\(A12\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-5 (AS1) - A12-5	Cable disconnected from negative (-) auxiliary battery terminal	Below 1 Ω	Ω
A36-5 (AS1) or A12-5 - Body ground	Cable disconnected from negative (-) auxiliary battery terminal	10 kΩ or higher	kΩ

Post-procedure1

(e) None

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



23.	SYSTEM CHECK
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(a) Check the vehicle specification.

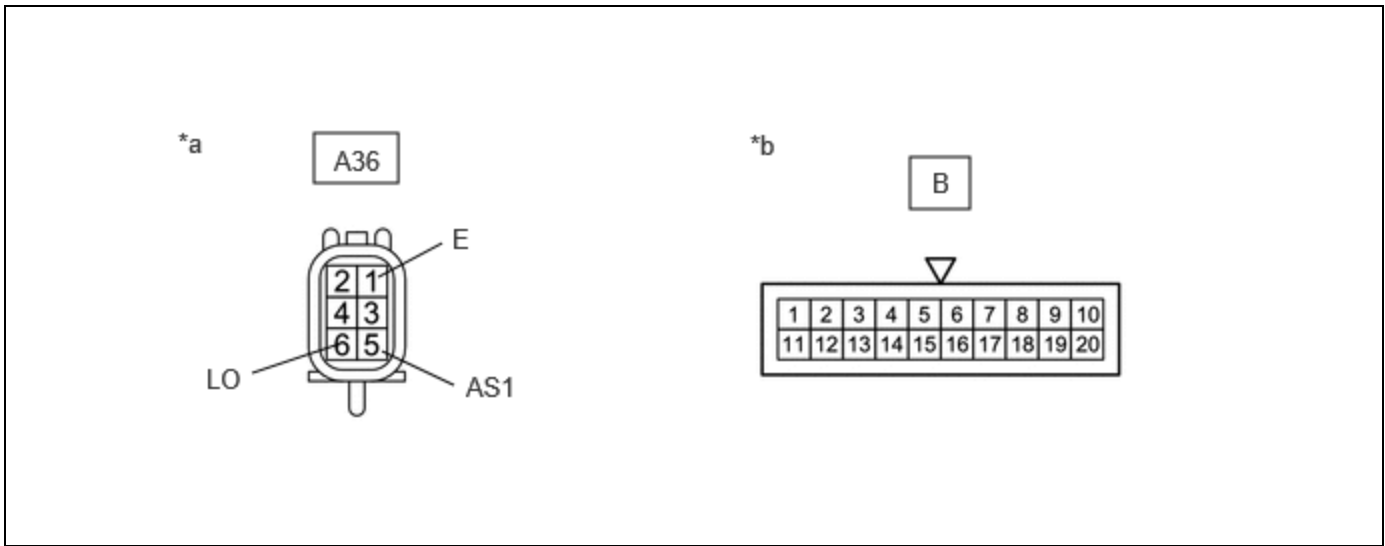
RESULT	PROCEED TO
w/ Front Side Marker Light	A
w/o Front Side Marker Light	B

A **REPLACE HEADLIGHT HOUSING SUB-ASSEMBLY RH**

B



24.	INSPECT HEADLIGHT HOUSING SUB-ASSEMBLY RH
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*a	Component without harness connected (to Vehicle Wire Harness)	*b	Component without harness connected (to Light Control LED ECU RH)
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(a) Remove the light control LED ECU RH connector.

HINT:

[Click here](#) **INFO**

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

Standard Resistance:



[Click Location & Routing\(A36\).](#)
[Click Connector\(A36\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-5 (AS1) - B-11	Always	Below 1 Ω	Ω
A36-6 (LO) - B-19	Always	Below 1 Ω	Ω
A36-1 (E) - B-8	Always	Below 1 Ω	Ω

OK ► REPLACE LIGHT CONTROL LED ECU RH

NG ► REPLACE HEADLIGHT HOUSING SUB-ASSEMBLY RH

25. INSPECT H-LP RH RELAY

HINT:

[Click here](#) **INFO**

NG ► REPLACE H-LP RH RELAY

OK**26.****CHECK HARNESS AND CONNECTOR (H-LP RH RELAY - HEADLIGHT HOUSING SUB-ASSEMBLY RH)**

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

Standard Resistance:

[Click Location & Routing\(A36\).](#)[Click Connector\(A36\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
3 (H-LP RH relay) - A36-6 (LO)	Always	Below 1 Ω	Ω
3 (H-LP RH relay) or A36-6 (LO) - Body ground	Always	10 k Ω or higher	k Ω

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR****OK****27.****CHECK HARNESS AND CONNECTOR (POWER SOURCE - H-LP RH RELAY)**

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
2 (H-LP RH relay) - Body ground	Ignition switch off	11 to 14 V	V
5 (H-LP RH relay) - Body ground	Ignition switch off	11 to 14 V	V

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

28.	CHECK HARNESS AND CONNECTOR (H-LP RH RELAY - POWER DISTRIBUTION BOX ASSEMBLY)
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Pre-procedure1

(a) Disconnect the A12 power distribution box assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A12\)](#)

[Click Connector\(A12\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (H-LP RH relay) - A12-10	Always	Below 1 Ω	Ω
1 (H-LP RH relay) or A12-10 - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(c) None

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



29.	INSPECT POWER DISTRIBUTION BOX ASSEMBLY
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Pre-procedure1

(a) Remove the power distribution box assembly.

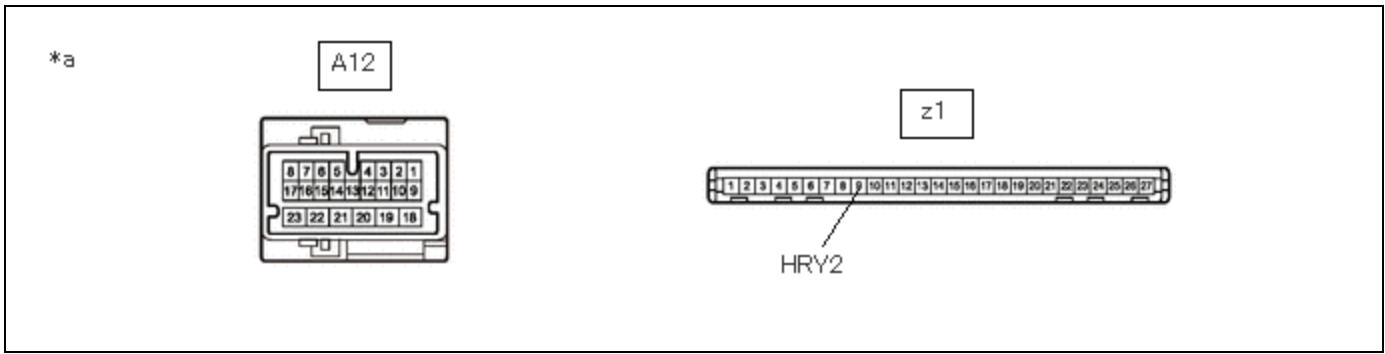
HINT:

Click here

(b) Remove the main body ECU (multiplex network body ECU) from the power distribution box assembly.

Procedure1

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



*a	Component without harness connected (Power Distribution Box Assembly)	-	-
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Standard Resistance:



[Click Location & Routing\(A12,z1\)](#)

[Click Connector\(A12\)](#)

[Click Connector\(z1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A12-10 - z1-9 (HRV2)	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

OK ▶ REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) [INFO](#)

NG ▶ REPLACE POWER DISTRIBUTION BOX ASSEMBLY [INFO](#)

