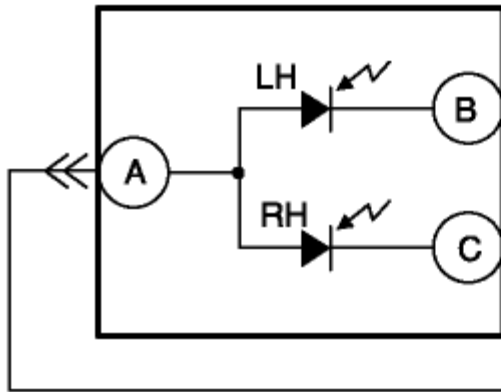


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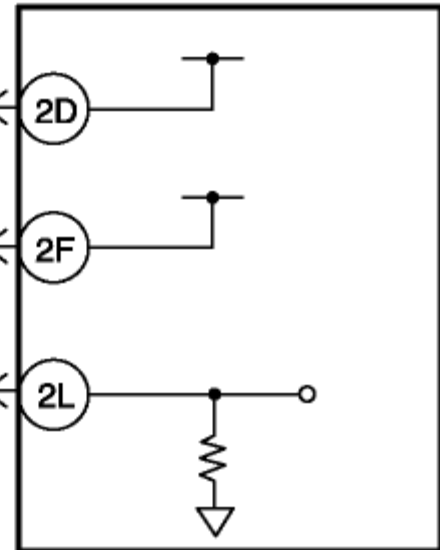
DTC B1A63:11, B1A63:13, B1A64:11, B1A64:13

DTC B1A63:11	Solar radiation sensor (RH) circuit short to ground
DTC B1A63:13	Solar radiation sensor (RH) circuit open
DTC B1A64:11	Solar radiation sensor (LH) circuit short to ground
DTC B1A64:13	Solar radiation sensor (LH) circuit open
POSSI BLE CAUSE	• Light amount shone on the solar radiation sensor is insufficient (Circuit is normal) • Solar radiation sensor connector malfunction • Solar radiation sensor malfunction • Open or short circuit in wiring harness between climate control unit and solar radiation sensor • Climate control unit connector malfunction • Climate control unit malfunction

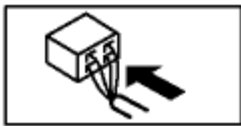
SOLAR RADIATION SENSOR



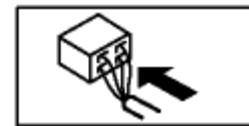
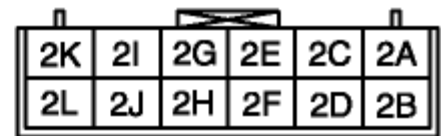
CLIMATE CONTROL UNIT



SOLAR RADIATION SENSOR WIRING HARNESS SIDE CONNECTOR



CLIMATE CONTROL UNIT WIRING HARNESS SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT SOLAR RADIATION SENSOR CONNECTOR - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the solar radiation sensor connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Are the connector and terminals normal?	Yes Go to the next step. No Repair/replace the connector or terminal. After repair procedure, go to the next step.

2	INSPECT SOLAR RADIATION SENSOR - Inspect the solar radiation sensor. (See SOLAR RADIATION SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) - Is it normal?	Yes	Go to the next step.
		No	Replace the solar radiation sensor. (See SOLAR RADIATION SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER] .) Go to the next step.
3	INSPECT SOLAR RADIATION SENSOR CIRCUIT FOR OPEN CIRCUIT - Disconnect the climate control unit connector and the solar radiation sensor connector. - Is there continuity between the following terminals of the climate control unit and the solar radiation sensor? 2D—B 2F—C 2L—A	Yes	Go to the next step.
		No	Repair the wiring harness. Go to the next step.
4	INSPECT SOLAR RADIATION SENSOR CIRCUIT FOR SHORT TO GROUND - Is there a short circuit to ground in the wiring harness between the following terminals of the climate control unit terminal and solar radiation sensor? 2D—B 2F—C	Yes	Repair the wiring harness.
		No	Inspect the connection of the climate control unit connector.
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR CONDITION - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Are the connector and terminals normal?	Yes	Go to the next step.
		No	Repair/replace the malfunctioning vehicle wiring harness, connector, or terminal. After repair procedure, go to the next step.

6	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN • Reconnect the disconnected connectors. • Clear the past malfunction from memory. • Verify DTCs. • Is DTC B1A63:11, B1A63:13, B1A64:11 or B1A64:13 output?	Yes	Repeat the inspection from Step 1. • If the malfunction does not recur, go to the next step. • If the malfunction recurs, replace the climate control unit. (See CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) then go to the next step.
		No	Go to the next step.
7	VERIFY THAT NO OTHER DTCs ARE PRESENT • Verify other DTCs displayed. • Are any other DTCs output?	Yes	Perform the corresponding DTC inspection.
		No	DTC troubleshooting completed.

[< Previous](#) [Next >](#)

[Back to Top](#)

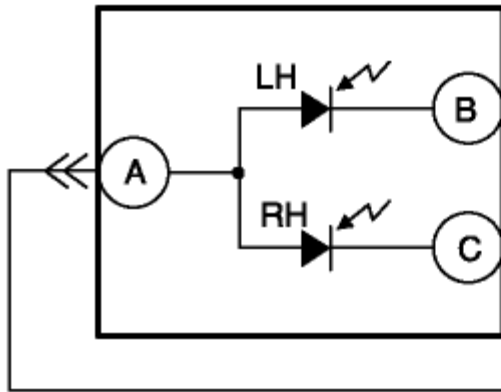
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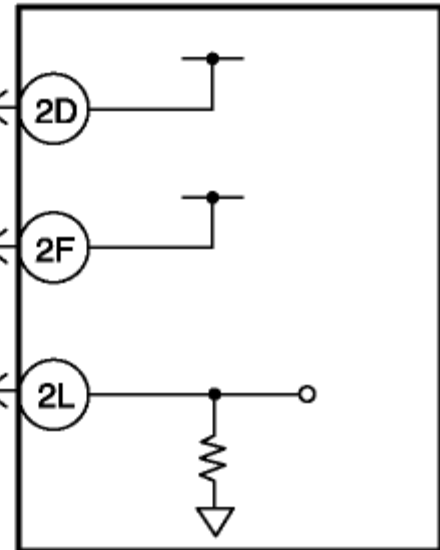
DTC B1A63:11, B1A63:13, B1A64:11, B1A64:13

DTC B1A63:11	Solar radiation sensor (RH) circuit short to ground
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POSSI BLE CAUSE	• Light amount shone on the solar radiation sensor is insufficient (Circuit is normal) • Solar radiation sensor connector malfunction • Solar radiation sensor malfunction • Open or short circuit in wiring harness between climate control unit and solar radiation sensor • Climate control unit connector malfunction • Climate control unit malfunction

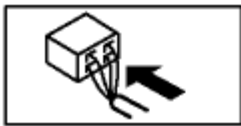
SOLAR RADIATION SENSOR



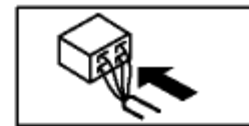
CLIMATE CONTROL UNIT



SOLAR RADIATION SENSOR WIRING HARNESS SIDE CONNECTOR



CLIMATE CONTROL UNIT WIRING HARNESS SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT SOLAR RADIATION SENSOR CONNECTOR - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the solar radiation sensor connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Are the connector and terminals normal?	Yes Go to the next step. No Repair/replace the connector or terminal. After repair procedure, go to the next step.

2	INSPECT SOLAR RADIATION SENSOR - Inspect the solar radiation sensor. (See SOLAR RADIATION SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER].) - Is it normal?	Yes	Go to the next step.
		No	Replace the solar radiation sensor. (See SOLAR RADIATION SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER] .) Go to the next step.
3	INSPECT SOLAR RADIATION SENSOR CIRCUIT FOR OPEN CIRCUIT - Disconnect the climate control unit connector and the solar radiation sensor connector. - Is there continuity between the following terminals of the climate control unit and the solar radiation sensor? 2D—B 2F—C 2L—A	Yes	Go to the next step.
		No	Repair the wiring harness. Go to the next step.
4	INSPECT SOLAR RADIATION SENSOR CIRCUIT FOR SHORT TO GROUND - Is there a short circuit to ground in the wiring harness between the following terminals of the climate control unit terminal and solar radiation sensor? 2D—B 2F—C	Yes	Repair the wiring harness.
		No	Inspect the connection of the climate control unit connector.
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR CONDITION - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Are the connector and terminals normal?	Yes	Go to the next step.
		No	Repair/replace the malfunctioning vehicle wiring harness, connector, or terminal. After repair procedure, go to the next step.

6	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN • Reconnect the disconnected connectors. • Clear the past malfunction from memory. • Verify DTCs. • Is DTC B1A63:11, B1A63:13, B1A64:11 or B1A64:13 output?	Yes	Repeat the inspection from Step 1. • If the malfunction does not recur, go to the next step. • If the malfunction recurs, replace the climate control unit. (See CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) then go to the next step.
		No	Go to the next step.
7	VERIFY THAT NO OTHER DTCs ARE PRESENT • Verify other DTCs displayed. • Are any other DTCs output?	Yes	Perform the corresponding DTC inspection.
		No	DTC troubleshooting completed.

[< Previous](#) [Next >](#)

[Back to Top](#)