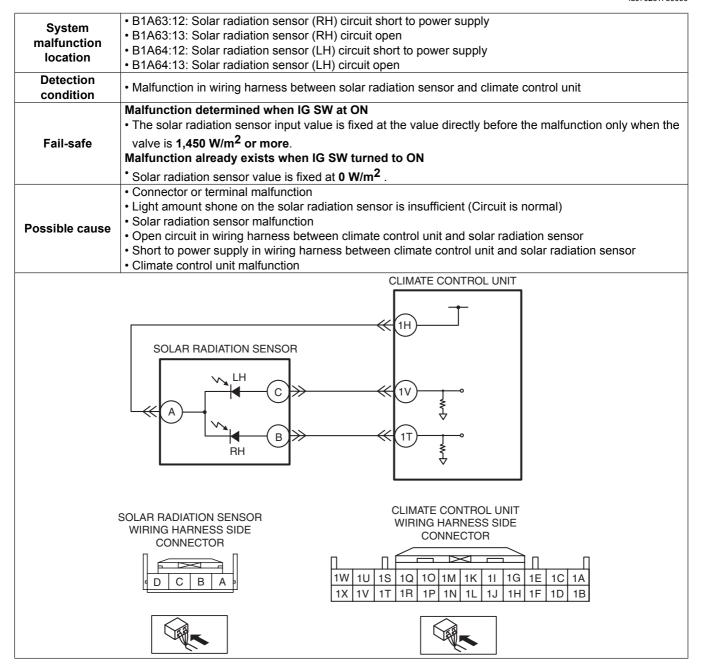
DTC B1A63:12, B1A63:13, B1A64:12, B1A64:13 [FULL-AUTO AIR CONDITIONER]

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Diagnostic Procedure

STEP	INSPECTION		ACTION
1	INSPECT SOLAR RADIATION SENSOR	Yes	Go to the next step.
	CONNECTOR	No	Repair/replace the connector or terminal.
	Switch the ignition off.		After repair procedure, go to the next step.
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-D		
	2.2].)		
	• Disconnect the solar radiation sensor connector.		
1 1	• Inspect the connector and terminals (corrosion,		
	damage, pin disconnection).		
	Are the connector and terminals normal?		
-	INSPECT SOLAR RADIATION SENSOR	Yes	Go to the next step.
	• Inspect the solar radiation sensor.	No	Replace the solar radiation sensor.
	(See SOLAR RADIATION SENSOR INSPECTION	INO	i i
	[FULL-AUTO AIR CONDITIONER].)		(See SOLAR RADIATION SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	• Is it normal?		1,
		\/	Go to the next step.
1 1	INSPECT SOLAR RADIATION SENSOR CIRCUIT	Yes	Go to the next step.
1	FOR OPEN CIRCUIT • Disconnect the climate control unit connector and the	No	Repair the wiring harness.
			Go to the next step.
	solar radiation sensor connector.		
	Inspect for continuity between the following terminals (wiring barness side):		
	(wiring harness-side):		
	Climate control unit terminal 1H—solar radiation		
	sensor terminal A		
	Climate control unit terminal 1V—solar radiation		
	sensor terminal C		
	Climate control unit terminal 1T—solar radiation		
	sensor terminal B		
	• Is there continuity?	1/	
1	INSPECT SOLAR RADIATION SENSOR CIRCUIT	Yes	·
1	FOR SHORT TO POWER SUPPLY	No	Repair the wiring harness.
	Connect the negative battery cable.		Go to the next step.
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-D		
	2.2].)		
	Switch the ignition ON (engine off or on).		
	Measure the voltage at the following terminals (wiring		
	harness-side):		
	Climate control unit terminal 1H		
	Climate control unit terminal 1V		
	Climate control unit terminal 1T		
	• Is the voltage 0V ?		

STEP	INSPECTION		ACTION
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR	Yes	Go to the next step.
	CONDITION • Switch the ignition off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Are the connector and terminals normal?	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. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.0, SKYACTIV-D 2.5].) Clear the past malfunction from memory. Verify DTCs. Is DTC B1A63:12, B1A63:13, B1A64:12 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].) Go to the next step. Go to the next step.
7	VERIFY THAT NO OTHER DTCs ARE PRESENT • Verify other DTCs displayed. • Are any other DTCs output?	Yes No	Perform the corresponding DTC inspection. DTC troubleshooting completed.