System malfunction location	B1B71:11: Evaporator temperature sensor circuit short to ground     B1B71:13: Evaporator temperature sensor circuit open		
Detection condition	Malfunction in wiring harness between evaporator temperature sensor and climate control unit		
Fail-safe	• A/C output OFF is controlled when the evaporator temperature sensor input value is at 0 °C {32 °F}.		
Possible cause	Connector or terminal malfunction Evaporator temperature sensor malfunction Open circuit in wiring harness between climate control unit and evaporator temperature sensor Short to ground in wiring harness between climate control unit and evaporator temperature sensor Climate control unit malfunction		
\$	CLIMATE CONTROL UNIT  WIRING HARNESS SIDE CONNECTOR  B A P		

Diagnostic procedure

Diagnostic procedure						
STEP	INSPECTION	ACTION				
1	INSPECT EVAPORATOR TEMPERATURE 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 evaporator temperature sensor					
	connector. (See A/C UNIT DISASSEMBLY/					
	ASSEMBLY.)					
	Inspect the connector and terminals (corrosion,					
	damage, pin disconnection).					
	<ul> <li>Are the connector and terminals normal?</li> </ul>					
2	INSPECT EVAPORATOR TEMPERATURE SENSOR	Yes	Go to the next step.			
	Inspect the evaporator temperature sensor.	No	Replace the evaporator temperature sensor.			
	(See EVAPORATOR TEMPERATURE SENSOR		(See A/C UNIT DISASSEMBLY/ASSEMBLY.)			
	INSPECTION [FULL-AUTO AIR CONDITIONER].)		Go to the next step.			
	• Is it normal?					

STEP	INSPECTION		ACTION
3	INSPECT EVAPORATOR TEMPERATURE SENSOR	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair the wiring harness.
	Disconnect the climate control unit connector and the		Go to the next step.
	evaporator temperature sensor connector.		
	• Inspect for continuity between the following terminals		
	(wiring harness-side):		
	<ul> <li>Climate control unit terminal1F—evaporator</li> </ul>		
	temperature sensor terminal A		
	<ul> <li>Climate control unit terminal 1X—evaporator</li> </ul>		
	temperature sensor terminal B		
	Is there continuity?		
4	INSPECT EVAPORATOR TEMPERATURE SENSOR	Yes	Repair the wiring harness.
	CIRCUIT FOR SHORT TO GROUND		Go to the next step.
	• Inspect for continuity between the following terminals	No	Connect the climate control unit connector, then go to the
	(wiring harness-side) and body ground:		next step.
	Climate control unit 1F		
	Is there continuity?		
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR	Yes	Go to the next step.
	CONDITION	No	Repair/replace the malfunctioning vehicle wiring
	Inspect the connector and terminals (corrosion,		harness, connector, or terminal.
	damage, pin disconnection).		After repair procedure, go to the next step.
	Are the connector and terminals normal?	<u>.</u>	<u> </u>
6	INSPECT EVAPORATOR TEMPERATURE SENSOR	Yes	The system is normal at present.
	CIRCUIT		Go to the next step.
	Connect the climate control unit connector.	No	Go to the next step.
	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		
	2.2].)		
	Switch the ignition ON (engine off or on).     Inspect the voltage at the following climate control unit		
	terminal (wiring harness-side).		
	Terminal 1F (evaporator temperature sensor		
	input signal) • Is the voltage normal? ( <b>Approx. 5 V</b> )		
7	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN	Yes	Paneat the inspection from Stan 1
'	• Switch the ignition off.	165	Repeat the inspection from Step 1.  • If the malfunction does not recur, go to the next step.
	Disconnect the negative battery cable.		If the malfunction recurs, replace the climate control
	Reconnect the disconnected connectors.		unit.
	Connect the negative battery cable.		(See CLIMATE CONTROL UNIT REMOVAL/
	(See NEGATIVE BATTERY CABLE		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	DISCONNECTION/CONNECTION [SKYACTIV-G		Go to the next step.
	2.0, SKYACTIV-G 2.5].)	No	Go to the next step.
	(See NEGATIVE BATTERY CABLE	'10	So to the hort step.
	DISCONNECTION/CONNECTION [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION [SKYACTIV-D		
	2.2].)		
	Clear the past malfunction from memory.		
	Verify DTCs.		
	• Is DTC B1B71:11 or B1B71:13 output?		
8	VERIFY THAT NO OTHER DTCs ARE PRESENT	Yes	Perform the corresponding DTC inspection.
	Verify other DTCs displayed.	No	DTC troubleshooting completed.
	Are any other DTCs output?		
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