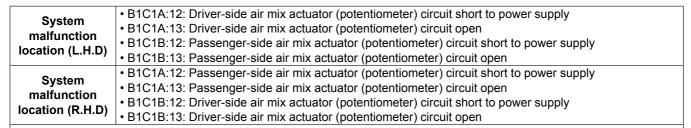
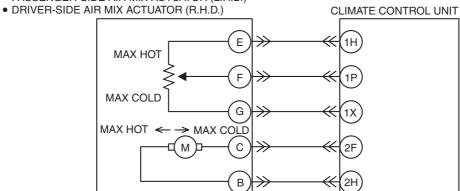
DTC B1C1A:12, B1C1A:13, B1C1B:12, B1C1B:13 [FULL-AUTO AIR CONDITIONER]

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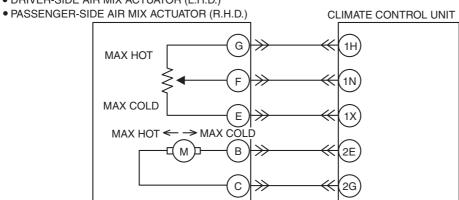
B1C1A:12: Driver-side air mix actuator (potentiometer) circuit short to power supply
B1C1A:13: Driver-side air mix actuator (potentiometer) circuit open
B1C1B:12: Passenger-side air mix actuator (potentiometer) circuit short to power supply
B1C1B:13: Passenger-side air mix actuator (potentiometer) circuit open
B1C1A:12: Passenger-side air mix actuator (potentiometer) circuit short to power supply
B1C1A:13: Passenger-side air mix actuator (potentiometer) circuit open
B1C1B:12: Driver-side air mix actuator (potentiometer) circuit short to power supply
B1C1B:13: Driver-side air mix actuator (potentiometer) circuit open
Malfordia in visito bases a batter a single state and alternate alternate and alternate alternate and alternate and alternate and alternate and alternate al
Malfunction in wiring harness between air mix actuator and climate control unit
Malfunction determined when IG SW at ON
Air mix actuator drive signal is stopped right when the malfunction is determined.
Malfunction already exists when IG SW turned to ON
Control based on ambient temperature.
Connector or terminal malfunction
Air mix actuator malfunction
Open circuit in wiring harness between climate control unit and air mix actuator
• Short to power supply in wiring harness between climate control unit and air mix actuator
Climate control unit malfunction



• PASSENGER-SIDE AIR MIX ACTUATOR (L.H.D.)



• DRIVER-SIDE AIR MIX ACTUATOR (L.H.D.)

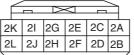


AIR MIX ACTUATOR WIRING HARNESS SIDE CONNECTOR





CLIMATE CONTROL UNIT WIRING HARNESS SIDE CONNECTOR



		П						П			
1W	1U	1S	1Q	10	1M	1K	11	1G	1E	1C	1A
1X	1V	1T	1R	1P	1N	1L	1J	1H	1F	1D	1B



Diagnostic Procedure

STEP	INSPECTION		ACTION			
1	INSPECT AIR MIX ACTUATOR CONNECTOR	Yes	Go to the next step.			
	Switch the ignition off.	No	Repair/replace the connector or terminal.			
	Disconnect the negative battery cable.		After repair procedure, 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].)					
	Disconnect the air mix actuator connector. (See AIR)					
	MIX ACTUATOR REMOVAL/INSTALLATION [FULL-					
	AUTO AIR CONDITIONER].)					
	 Inspect the connector and terminals (corrosion, 					
	damage, pin disconnection).					
	Are the connector and terminals normal?					
2	INSPECT AIR MIX ACTUATOR	Yes	Go to the next step.			
	Inspect the air mix actuator.	No	Replace the air mix actuator.			
	(See AIR MIX ACTUATOR INSPECTION [FULL-		(See AIR MIX ACTUATOR REMOVAL/INSTALLATION			
	AUTO AIR CONDITIONER].)		[FULL-AUTO AIR CONDITIONER].)			
	• Is it normal?		Go to the next step.			
3	INSPECT AIR MIX ACTUATOR (POTENTIOMETER)	Yes	Go to the next step.			
	CIRCUIT FOR OPEN	No	Repair the wiring harness.			
	Disconnect the climate control unit connector and the		Go to the next step.			
	air mix actuator connector.					
	Inspect for continuity between the following terminals					
	(wiring harness-side):					
	Driver-side (L.H.D.), Passenger-side (R.H.D.)					
	Climate control unit terminal 1H—air mix actuator					
	terminal G					
	Climate control unit terminal 1N—air mix actuator					
	terminal F					
	Climate control unit terminal 1X—air mix actuator					
	terminal E					
	Passenger-side (L.H.D.), Driver-side (R.H.D.)					
	Climate control unit terminal 1H—air mix actuator terminal E					
	Climate control unit terminal 1P—air mix actuator					
	terminal F					
	Climate control unit terminal 1X—air mix actuator					
	terminal G					
1	• Is there continuity?					

STEP	INSPECTION		ACTION
4	INSPECT AIR MIX ACTUATOR (POTENTIOMETER)	Yes	The system is normal at present.
"	SHORT TO POWER SUPPLY	100	Go to the next step.
	Connect the negative battery cable.	No	Repair/replace the malfunctioning vehicle wiring
	(See NEGATIVE BATTERY CABLE	140	harness.
	DISCONNECTION/CONNECTION [SKYACTIV-G		After repair procedure, go to the next step.
	2.0, SKYACTIV-G 2.5].)		Alter repair procedure, go to the flext step.
	(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).		
	Measure the voltage at the following terminals (wiring		
	harness-side):		
	Driver-side (L.H.D.), Passenger-side (R.H.D.)		
	— Climate control unit 1N		
	Passenger-side (L.H.D.), Driver-side (R.H.D.)		
	— Climate control unit 1P		
	• Is the voltage 0V ?	1/2	0-4-4
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR	Yes	Go to the next step.
	CONDITION	No	Repair/replace the malfunctioning vehicle wiring
	Switch the ignition off.		harness, connector, or terminal.
	Disconnect the negative battery cable.		After repair procedure, 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].)		
	 Inspect the connector and terminals (corrosion, 		
	damage, pin disconnection).		
	Are the connector and terminals normal?		
6	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN	Yes	Repeat the inspection from Step 1.
	Reconnect the disconnected connectors.		• If the malfunction does not recur, go to the next step.
	Connect the negative battery cable.		If the malfunction recurs, replace the climate control
	(See NEGATIVE BATTERY CABLE		unit.
	DISCONNECTION/CONNECTION [SKYACTIV-G		(See CLIMATE CONTROL UNIT REMOVAL/
	2.0, SKYACTIV-G 2.5].)		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	(See NEGATIVE BATTERY CABLE		Go to the next step.
	DISCONNECTION/CONNECTION [SKYACTIV-G	No	Go to the next step.
	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 B1C1A:12, B1C1A:13, B1C1B:12, B1C1B:13		
	output?		
7	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?		
	Are any other DTCs output?		