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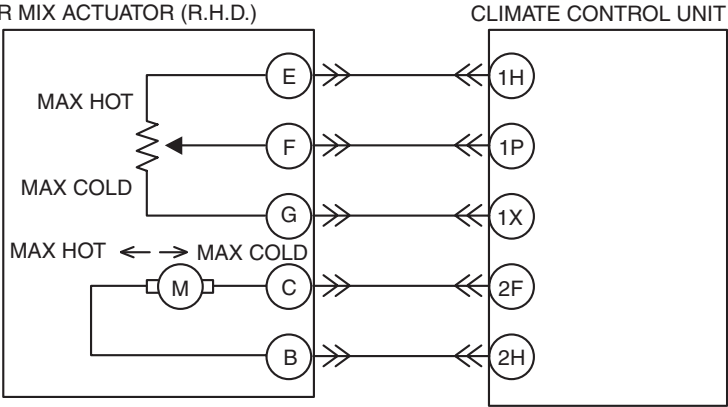
**DTC B1081:71, B1082:71 [FULL-AUTO AIR CONDITIONER]**

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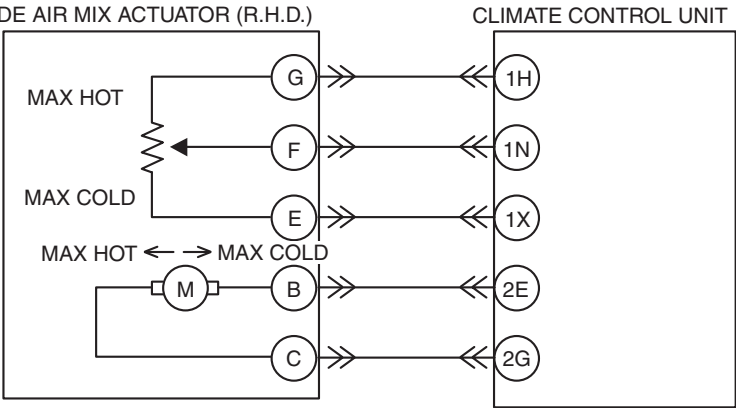
<b>System malfunction location (L.H.D)</b>	<ul style="list-style-type: none"><li>• B1081:71: Driver-side air mix actuator motor lock</li><li>• B1082:71: Passenger-side air mix actuator motor lock</li></ul>
<b>System malfunction location (R.H.D)</b>	<ul style="list-style-type: none"><li>• B1081:71: Passenger-side air mix actuator motor lock</li><li>• B1082:71: Driver-side air mix actuator motor lock</li></ul>
<b>Detection condition</b>	<ul style="list-style-type: none"><li>• Air mix actuator motor lock</li></ul>
<b>Fail-safe</b>	<p><b>Malfunction determined when IG SW at ON</b></p> <ul style="list-style-type: none"><li>• Air mix actuator drive signal is stopped right when the malfunction is determined.</li></ul> <p><b>Malfunction already exists when IG SW turned to ON</b></p> <ul style="list-style-type: none"><li>• Twenty seconds after ignition is switched ON, the air mix actuator drive signal is output normally again. Afterwards, motor output is stopped during malfunction determination.</li></ul>
<b>Possible cause</b>	<ul style="list-style-type: none"><li>• Connector or terminal malfunction</li><li>• Air mix actuator malfunction</li><li>• A/C unit (air mix link and air mix crank) malfunction</li><li>• Open circuit in wiring harness between climate control unit and air mix actuator</li><li>• Short to ground in wiring harness between climate control unit and air mix actuator</li><li>• Climate control unit malfunction</li></ul>

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<b>System malfunction location (R.H.D)</b>	<ul style="list-style-type: none"> <li>• B1081:71: Passenger-side air mix actuator motor lock</li> <li>• B1082:71: Driver-side air mix actuator motor lock</li> </ul>

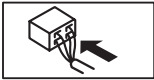
- PASSENGER-SIDE AIR MIX ACTUATOR (L.H.D.)
- DRIVER-SIDE AIR MIX ACTUATOR (R.H.D.)



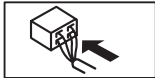
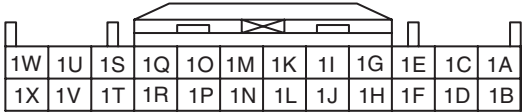
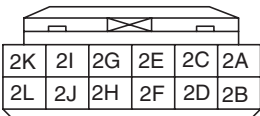
- DRIVER-SIDE AIR MIX ACTUATOR (L.H.D.)
- PASSENGER-SIDE AIR MIX ACTUATOR (R.H.D.)



AIR MIX ACTUATOR WIRING  
HARNESS SIDE CONNECTOR



CLIMATE CONTROL UNIT  
WIRING HARNESS SIDE  
CONNECTOR



## Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	<b>INSPECT AIR MIX ACTUATOR CONNECTOR</b> <ul style="list-style-type: none"> <li>Switch the ignition off.</li> <li>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].)</li> <li>Disconnect the air mix actuator connector. (See AIR MIX ACTUATOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].)</li> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Are the connector and terminals normal?</li> </ul>	Yes	Go to the next step.
		No	Repair/replace the connector or terminal. After repair procedure, go to the next step.
2	<b>INSPECT AIR MIX ACTUATOR OPERATION</b> <ul style="list-style-type: none"> <li>Disconnect the air mix actuator connector.</li> <li>Apply battery positive voltage and connect the ground to the air mix actuator terminals B and C, and then inspect the air mix actuator.</li> <li>Does the air mix actuator operate?</li> </ul>	Yes	Connect the connector, then go to Step 4.
		No	Go to the next step.
3	<b>INSPECT AIR MIX LINK OPERATION</b> <ul style="list-style-type: none"> <li>Remove the air mix actuator.</li> <li>Operate the air mix link manually.</li> <li>Does the air mix link operate smoothly?</li> </ul>	Yes	Replace the air mix actuator. (See AIR MIX ACTUATOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].) Go to the next step.
		No	Replace the air mix link and the air mix crank. Go to the next step.
4	<b>INSPECT AIR MIX ACTUATOR CIRCUIT FOR OPEN CIRCUIT OR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Disconnect the climate control unit connector. (See CLIMATE CONTROL UNIT REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER].)</li> <li>Apply battery positive voltage and connect the ground to the climate control unit terminal 2E and 2G, and then inspect the air mix actuator. (Driver-side)</li> <li>Apply battery positive voltage and connect the ground to the climate control unit terminal 2F and 2H, and then inspect the air mix actuator. (Passenger-side)</li> <li>Does the air mix actuator operate?</li> </ul>	Yes	Go to the next step.
		No	Repair/replace the malfunctioning vehicle wiring harness. After repair procedure, go to the next step.
5	<b>VERIFY CLIMATE CONTROL UNIT CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Are the connector and terminals normal?</li> </ul>	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.

STEP	INSPECTION	ACTION	
6	<b>VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN</b> <ul style="list-style-type: none"> <li>• Reconnect the disconnected connectors.</li> <li>• 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].)</li> <li>• Clear the past malfunction from memory.</li> <li>• Verify DTCs.</li> <li>• Is DTC B1081:71 or B1082:71 output?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>• If the malfunction does not recur, go to the next step.</li> <li>• If the malfunction recurs, replace the climate control unit. (See CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].)</li> </ul> Go to the next step.
		No	Go to the next step.
7	<b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b> <ul style="list-style-type: none"> <li>• Verify other DTCs displayed.</li> <li>• Are any other DTCs output?</li> </ul>	Yes	Perform the corresponding DTC inspection.
		No	DTC troubleshooting completed.