

DTC B1086:71 [FULL-AUTO AIR CONDITIONER]

id0702c1816700

System malfunction location	<ul style="list-style-type: none"> Airflow mode actuator motor lock
Detection condition	<ul style="list-style-type: none"> Airflow mode actuator motor lock
Fail-safe	<p>Malfunction determined when IG SW at ON</p> <ul style="list-style-type: none"> Airflow mode actuator drive signal is stopped right when the malfunction is determined. <p>Malfunction already exists when IG SW turned to ON</p> <ul style="list-style-type: none"> Nine seconds after ignition is switched ON, the airflow mode actuator drive signal is output normally again. Afterwards, motor output is stopped during malfunction determination.
Possible cause	<ul style="list-style-type: none"> Connector or terminal malfunction Airflow mode actuator malfunction A/C unit (airflow mode link and airflow mode crank) malfunction Open circuit in wiring harness between climate control unit and airflow mode actuator Short to ground in wiring harness between climate control unit and airflow mode actuator Climate control unit malfunction
<div> <div> <div>AIRFLOW MODE ACTUATOR</div> </div> <div> <div>CLIMATE CONTROL UNIT</div> </div> </div> <div> <div> <div>AIRFLOW MODE ACTUATOR WIRING HARNESS SIDE CONNECTOR</div> </div> <div> <div>CLIMATE CONTROL UNIT WIRING HARNESS SIDE CONNECTOR</div> </div> </div>	

Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	INSPECT AIRFLOW MODE ACTUATOR CONNECTOR <ul style="list-style-type: none"> 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].) Disconnect the airflow mode actuator connector. (See AIRFLOW MODE ACTUATOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) 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 AIRFLOW MODE ACTUATOR OPERATION <ul style="list-style-type: none"> Disconnect the airflow mode actuator connector. Apply battery positive voltage and connect the ground to the airflow mode actuator terminals F and D, and then inspect the airflow mode actuator. Does the airflow mode actuator operate? 	Yes	Connect the connector, then go to Step 4.
		No	Go to the next step.
3	INSPECT AIRFLOW MODE MAIN LINK OPERATION <ul style="list-style-type: none"> Remove the airflow mode actuator. Operate the airflow mode main link manually. Does the airflow mode main link operate smoothly? 	Yes	Replace the airflow mode actuator. (See AIRFLOW MODE ACTUATOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) Go to the next step.
		No	Replace the airflow mode main link, airflow mode sub link, and the airflow mode crank. Go to the next step.
4	INSPECT AIRFLOW MODE ACTUATOR CIRCUIT FOR OPEN CIRCUIT OR SHORT TO GROUND <ul style="list-style-type: none"> Disconnect the climate control unit connector. (See CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER].) Apply battery positive voltage and connect the ground to the climate control unit connector terminals 2K and 2I, and then inspect the airflow mode actuator. Does the airflow mode actuator operate? 	Yes	Go to the next step.
		No	Repair/replace the malfunctioning vehicle wiring harness. After repair procedure, go to the next step.
5	VERIFY CLIMATE CONTROL UNIT CONNECTOR CONDITION <ul style="list-style-type: none"> 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.

STEP	INSPECTION	ACTION	
6	VERIFY THAT SAME DTC IS NOT OUTPUT AGAIN <ul style="list-style-type: none"> • 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 2.2].) • Clear the past malfunction from memory. • Verify DTCs. • Is DTC B1086:71 output? 	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> • 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.
		No	Go to the next step.
7	VERIFY THAT NO OTHER DTCs ARE PRESENT <ul style="list-style-type: none"> • Verify other DTCs displayed. • Are any other DTCs output? 	Yes	Perform the corresponding DTC inspection.
		No	DTC troubleshooting completed.