

## Roof Opening Panel

### Overview

For information on the description and operation of the system, refer to the relevant section of the workshop manual.

### Inspection and Verification

- 1 . Verify the customer concern.
- 2 . Visually inspect for obvious mechanical or electrical faults.

Mechanical	Electrical
<ul style="list-style-type: none"> <li>● Glass panel assembly</li> <li>● Glass panel seal</li> <li>● Frame assembly</li> <li>● Sunblind</li> <li>● Deflector</li> <li>● Access panel</li> <li>● Roof opening panel cables</li> <li>● Drain tube(s)</li> </ul>	<ul style="list-style-type: none"> <li>● Fuses Battery junction box (BJB) - link 11E BJB - link 15E Central junction box (CJB) - Fuse 20P</li> <li>● Battery junction box (BJB)</li> <li>● Central junction box (CJB)</li> <li>● Wiring harness</li> <li>● Loose or corroded connector(s)</li> <li>● Roof opening panel motor and control module</li> <li>● Roof opening panel switch</li> </ul>

3 . If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.

4 . Use the approved diagnostic system or a scan tool to retrieve any diagnostic trouble codes (DTCs) before moving onto the symptom chart or DTC index.

► Make sure that all DTCs are cleared following rectification

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### Symptom Chart

Symptom	Possible causes	Action
Roof opening panel inoperative	<ul style="list-style-type: none"> <li>● Fuse(s) blown</li> <li>● Circuit fault</li> <li>● Switch fault</li> <li>● Motor fault</li> </ul>	Check the fuse(s) (see visual inspection). Check the roof opening panel circuits. Check the switch and motor function. Refer to the electrical guides.
Roof opening panel sticking	<ul style="list-style-type: none"> <li>● Debris in the channels/guides</li> <li>● Cable(s) sticking/damaged</li> <li>● Roof opening panel not correctly aligned</li> <li>● Switch fault</li> <li>● Motor fault</li> </ul>	Check for general debris. Inspect, clean and lubricate the cable (s) and guides. Check the roof opening panel alignment. Refer to the relevant section of the workshop manual. Check the switch and motor function. Refer to the electrical guides.
Roof opening panel juddering	<ul style="list-style-type: none"> <li>● Debris in the channels/guides</li> <li>● Cable(s) sticking/damaged</li> <li>● Roof opening panel not correctly aligned</li> <li>● Motor fault</li> </ul>	Check for general debris. Inspect, clean and lubricate the cable (s) and guides. Check the roof opening panel alignment. Refer to the relevant section of the workshop manual. Check the motor function.
Water ingress from roof opening panel	<ul style="list-style-type: none"> <li>● Debris in the channels/guides</li> <li>● Drain tube(s) blocked</li> <li>● Damage to the glass panel seal</li> <li>● Roof opening panel not correctly aligned</li> </ul>	Check for general debris and blocked drain tube(s). Inspect, clean and lubricate the cable(s) and guides. Check the glass panel seal. Check the roof opening panel alignment. Refer to the relevant section of the workshop manual.
	<ul style="list-style-type: none"> <li>● Damage to the glass</li> </ul>	

Wind noise	<ul style="list-style-type: none"> <li>panel seal</li> <li>● Cable(s) sticking/damaged</li> <li>● Roof opening panel not correctly aligned</li> </ul>	Check the glass panel seal. Inspect, clean and lubricate the cable(s) and guides. Check the roof opening panel alignment. Refer to the relevant section of the workshop manual.
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## DTC index

### NOTE :

Generic scan tools may not read the codes listed, or may read only 5-digit codes. Match the 5 digits from the scan tool to the first 5 digits of the 7-digit code listed to identify the fault (the last 2 digits give extra information read by the manufacturer-approved diagnostic system).

DTC	Description	Possible causes	Action
B1B5646	Sunroof Module	<ul style="list-style-type: none"> <li>● Roof opening panel control module - calibration/parameter memory failure</li> </ul>	Clear the DTC and re-test. If the DTC resets, renew the roof opening panel control module. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
B1B564B	Sunroof Module	<ul style="list-style-type: none"> <li>● Roof opening panel control module - over temperature (sensor defective or not calibrated)</li> </ul>	If no customer complaint issue exists with the roof opening panel operation, no action necessary, clear/ignore DTC. If functionality is affected, refer to the electrical guides and check the control module connector and circuit. Repair as necessary and clear the DTC. If the DTC persists and panel operation is incorrect, renew the control module.
B1B5687	Sunroof Module	<ul style="list-style-type: none"> <li>● No response from sunroof module</li> </ul>	Roof opening panel is not installed to all variants (option). Fault logging is inhibited by the CCF, but an incorrectly configured CCF could give erroneous DTC logging. Repair action only required for vehicles with sunroof installed. Where necessary refer to the lost communication statement at the start of this table.