

SLIDING SUNROOF OPERATION

B3E091501049T05

- The glass panel opens/closes using tilting and sliding operations.
- When the ignition switch is at the ON position, the sunroof operates by use of the sunroof switch.
- If the ignition switch is turned to the LOCK or ACC position while the sunroof is operating, it will stop.
- One-touch operation of the SLIDE open or the TILT up switch provides auto-operation.
- If any switch is operated during auto-operation, the sunroof stops.
- If any malfunction is detected during sunroof operation, the fail-safe function operates to ensure safety.

Item	Specification	Cancel condition
Continuous energization observation function (switch stuck-on observation function)	If the switch is continuously on for longer than the set time (60 s), operation is stopped.	The switch is turned off, then on.
Continuous operation observation function	If the period of accumulated energization due to continuous opening/closing is longer than the set time (120 s), operation is stopped. (If set time is reached while closing, sunroof returns to fully open position.)	20 s after operation is stopped.
Relay observation function	If the motor power supply is on continuously due to stuck breaker points in a relay on one side or similar malfunction, the other relay is turned on, cutting off energization to the motor. (Even if the ignition switch is turned to the LOCK or ACC position, the coil is energized.)	Relay is no longer stuck.
Pinching detection function	If the pulse variation of Hall effect switch 1 is not longer than the set time (400 ms), operation is stopped (pinching detected).	Pinching is resolved, and the switch is turned off, then on.
Static load detection function	If pinching is detected while the glass panel is sliding, sliding operation is stopped. Set load: 343 N {35 kgf, 77 lbf} or more	Pinching is resolved, and the switch is turned off, then on.
Hall effect switch malfunction	If an abnormal Hall effect switch pulse is detected, the system enters safe mode. • Abnormality while operating: Operation stopped • Abnormal condition when the switch is operated: Glass panel operates for 400 ms in the direction of sunroof switch operation and stops.	Hall effect switch pulse is detected to be normal. (Complete normal recovery is achieved only after completion of initial position setting.)