

## Roof Opening Panel - Overview

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The convertible top system is controlled by 2 smart electric motors called the roof opening panel motor and the shield motor. The roof opening panel motor is the primary motor and the shield motor is the secondary motor, with both motors being exactly the same. The shield motor has a second ground circuit which in the motors software identifies it as the shield motor. The 2 motors communicate on a K Bus which is only for motor communication and not for any service capabilities. If this K Bus circuit is interrupted the system will immediately shut down except to allow the roof opening panel motor to fully close 1 time. All functions of the roof opening panel system are controlled by the roof opening panel and shield switches located in the overhead console. The close switch will close the glass from any glass open position including vent. The switch is serviced as an assembly with the overhead console. One touch operation is accomplished by pressing the switch for less than 1 second and releasing. The roof opening panel open switch will activate the shield to open before the roof opening panel will open in either one touch or manual operation. Closing the shield will not cause the roof opening panel to close, therefore if the roof opening panel is open at all the shield will only close to the comfort stop position. For manual operation, press and hold the switch, and release at the desired position. For more information on the roof opening panel operation,

Refer to: Roof Opening Panel - System Operation and Component Description (501-17 Roof Opening Panel - Vehicles With: Vista Roof Opening Panel, Description and Operation).

**Vista Roof Panel Glass** The roof opening panel system on this vehicle includes a fixed vista roof panel glass behind the front sliding glass panel. Any time this panel is removed or adjusted the front sliding glass panel will need to be initialized.

**K Bus Communication** There is a communication circuit (K Bus) between the roof opening panel motor and the shield motor that is only for communication between the motors and not for service diagnostics. If this circuit is opened or shorted the roof opening panel system will not operate. When the K Bus circuit is repaired, normal system function will return.