



Sunroof Description and Operation (Tilt and Slide)

The Tilt/Slide sunroof consists of a moving glass panel and a manual sunshade. In the Tilt/Slide sunroof system the rear of the glass tilts up above the roof line for venting, and slides between the headliner and the roof panel to open fully.

The sunshade is operated by manually pushing or pulling it. It has a mechanical connection to the glass causing it to open with the glass and keeping it from closing more than the glass. If the glass is fully closed it will move without restriction.

The sunroof glass is controlled by an integrated motor/controller containing the interface to the sunroof switch, internal Hall effect position sensors, a bi-directional motor as well as the necessary control electronics. The Sunroof Motor/Controller is not connected to a serial data communication bus thus the Service scan tool is not capable of communicating with it.

The sunroof switch is connected directly to the Sunroof Motor/Controller and is a momentary rocker type switch with center off. It has two contacts, one for open movement and one for close movement. When activated, each switch contact completes the circuit between the appropriate Sunroof Motor/Controller input and battery voltage provided by the energized Rap/Accessory Relay.

Sunroof System Thermal Protection

The sunroof controller has a thermal protection algorithm to protect the Sunroof controller and motor from damage due to overheating conditions resulting from excessive switch actuations. The thermal protection algorithm will cause any new sunroof commands to be ignored until the motor is allowed to cool.

Sunroof Operation

The sunroof will operate when the vehicle is in either the Run or Accessory Mode

Open/Close

To open the sunroof, press and hold the rear of the switch. The sunroof may be expressed to the fully open position by pressing the switch twice within 3 seconds. To close the sunroof, press and hold the front of the switch. There is no express close function.

Vent

From the fully closed position, press and hold the front of the switch to vent the sunroof. To close from the tilt position, press the back of the switch.

