

SUNROOF

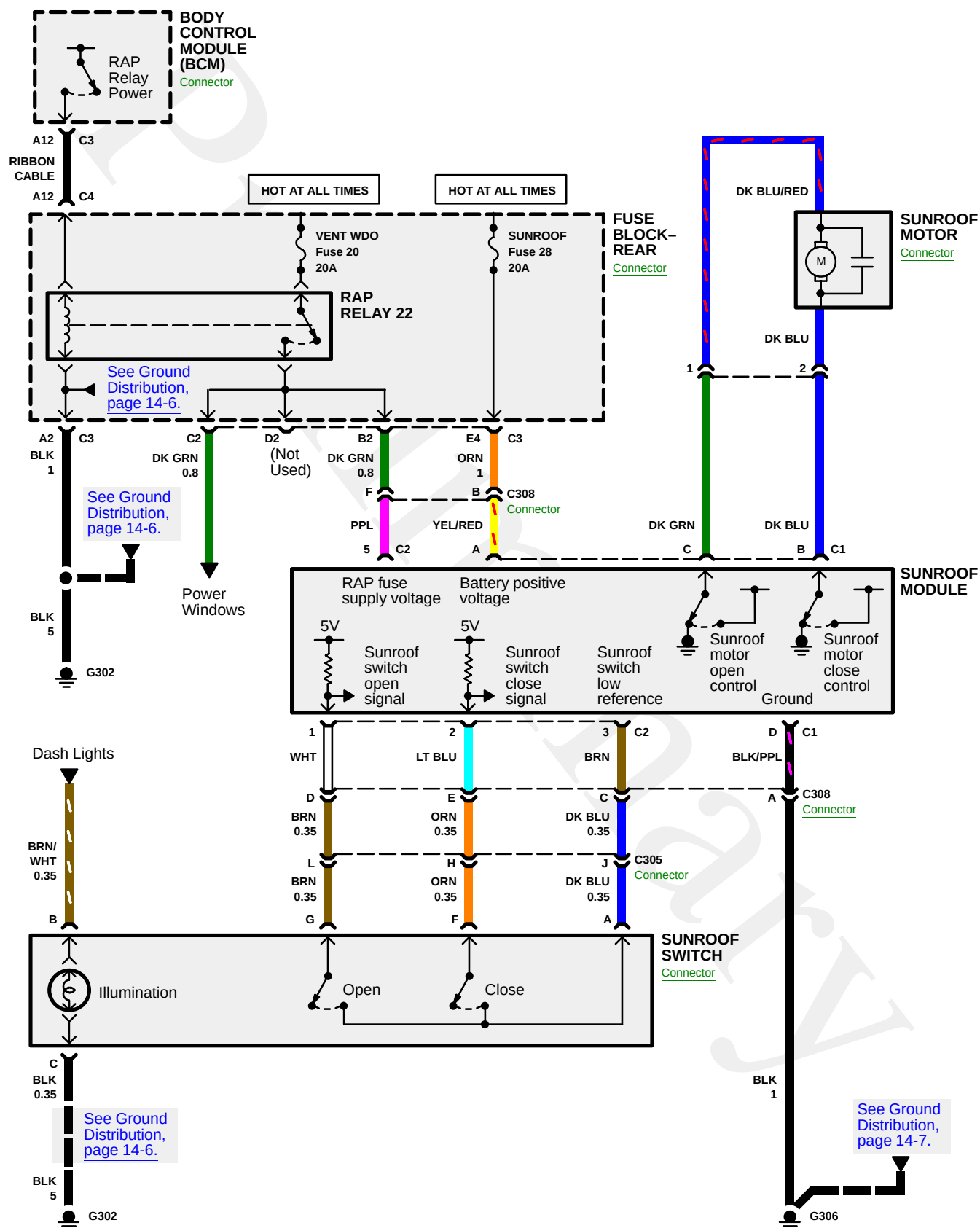
Component Index

- Body Control Module (BCM)
- Fuse Block-Rear
- RAP Relay 22
- Sunroof Module
- Sunroof Motor
- Sunroof Switch

Preliminary

SUNROOF

Circuit Schematic



SUNROOF

Circuit Operation

Power Sunroof System Components

The power sunroof system consists of the following components:

- Sunroof control module
- Sunroof switch
- Sunroof motor
- Sunroof glass, tilt/slide style, with glass sliding between the headliner and roof
- Sunshade
- Rail and track assembly upon which the sunroof glass rides
- Power supply for the sunroof control module:
 - Sunroof control module logic circuitry:
 - Short wheelbase: RAP supply voltage is supplied and controlled directly from the Body Control Module (BCM) for the Retained Accessory Power (RAP) function.
 - Long wheelbase: VENT WDO Relay 20 A fuse supplies the voltage through the RAP relay, that is controlled by the BCM, for the RAP function.
- Ground from G302

Power Sunroof Operation

The sunroof control module has two power circuits; the Sunroof 20 A fuse and the RAP supply voltage. The Sunroof 20 A fuse is hot at all times supplying battery positive voltage for the operation of the sunroof motor control circuits. The RAP supply voltage is for the sunroof control module logic circuitry and is controlled from, or by the BCM, depending on the wiring configuration. The power sunroof will operate with the ignition switch turned to Accessory or RUN supplying RAP supply voltage. Once the ignition switch is turned to OFF the sunroof will continue to operate until any door is open or when the Retained Accessory Power (RAP) has timed out. For a description and operation of the RAP operation, refer to Retained Accessory Power (RAP) Description and Operation in Retained Accessory Power.

Use the rocker type sunroof switch to command the sunroof to :

- Express Open
- Close
- Vent

Pressing the sunroof switch rearward, the sunroof glass will slide from:

- Vent position to the closed position.
- Closed position to the open position.

Pressing the sunroof switch forward, the sunroof glass will slide from:

- Open position to the closed position.
- Closed position to the vent position.

SUNROOF

Component Location Index

(Refer to Section 201 for photographs.)

<u>Component</u>		<u>Photo No.</u>
Body Control Module		
(BCM)	On Rear Fuse Block, under left rear seat	53
Fuse Block-Rear	Under the left rear seat	52
RAP Relay 22	In the Rear Fuse Block	55
Sunroof Module	Above the headliner, at the rear of the sunroof	56
Sunroof Motor	Above the headliner, at the rear of the sunroof	56
Sunroof Switch	In upper console	91
<u>Connector</u>		
C305 (16-BLK)	Inside upper console	91
C308 (6-BLK)	Above the left rear door	56
<u>Ground</u>		
G302	On the lower left B-pillar	105
G306	On body panel, left of rear door	109