POWER SEATS

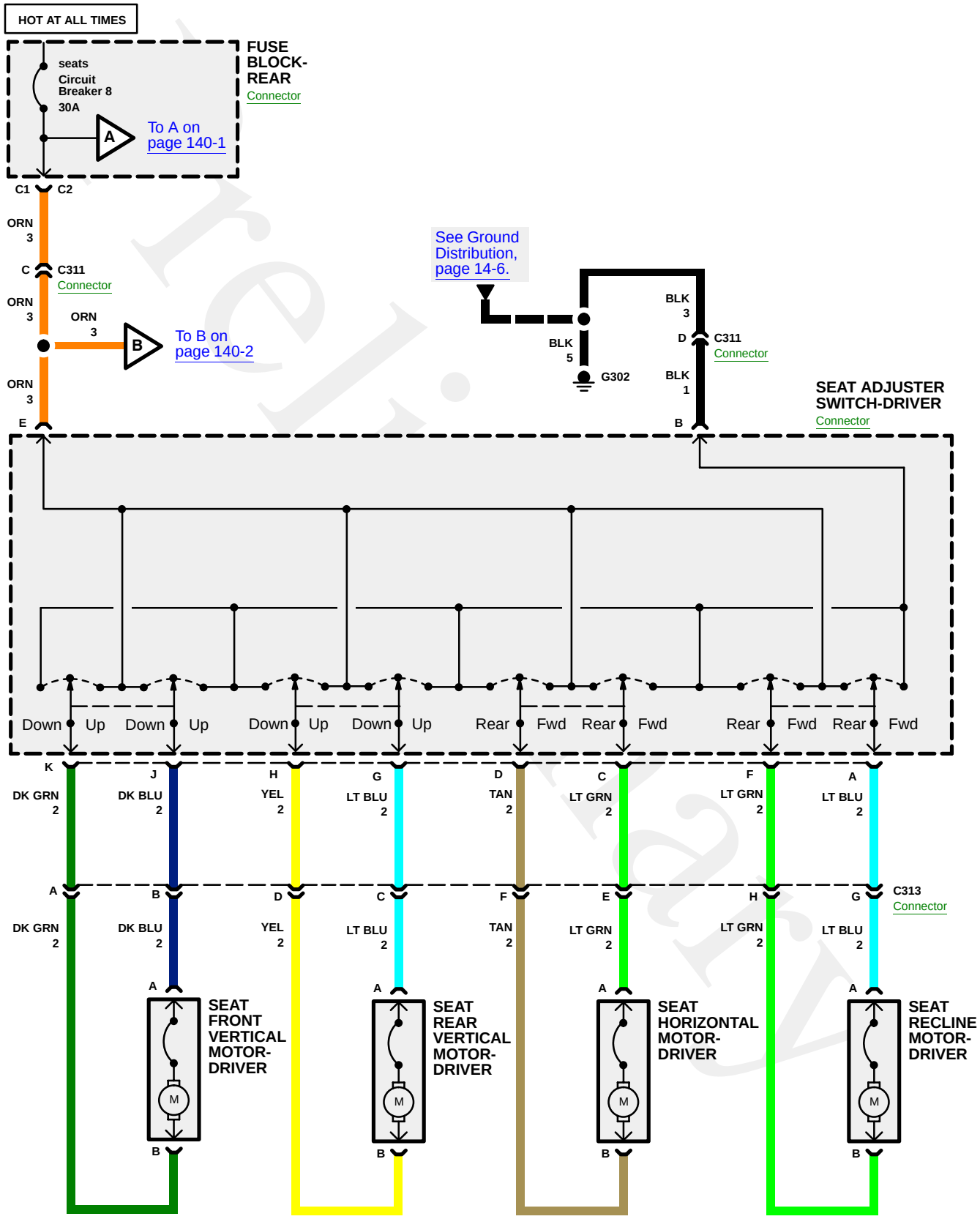
Component Index

Fuse Block-Rear
Lumbar Adjuster Switch-Driver
Lumbar Adjuster Switch-Passenger
Seat Adjuster Switch-Driver
Seat Front Vertical Motor-Driver
Seat Front Vertical Motor-Passenger
Seat Horizontal Motor-Driver
Seat Horizontal Motor-Passenger
Seat Lumbar Horizontal Motor-Driver
Seat Lumbar Horizontal Motor-Passenger
Seat Lumbar Vertical Motor-Driver
Seat Lumbar Vertical Motor-Passenger
Seat Rear Vertical Motor-Driver
Seat Rear Vertical Motor-Passenger
Seat Recline Motor-Driver
Seat Recline Motor-Passenger

Preliminary

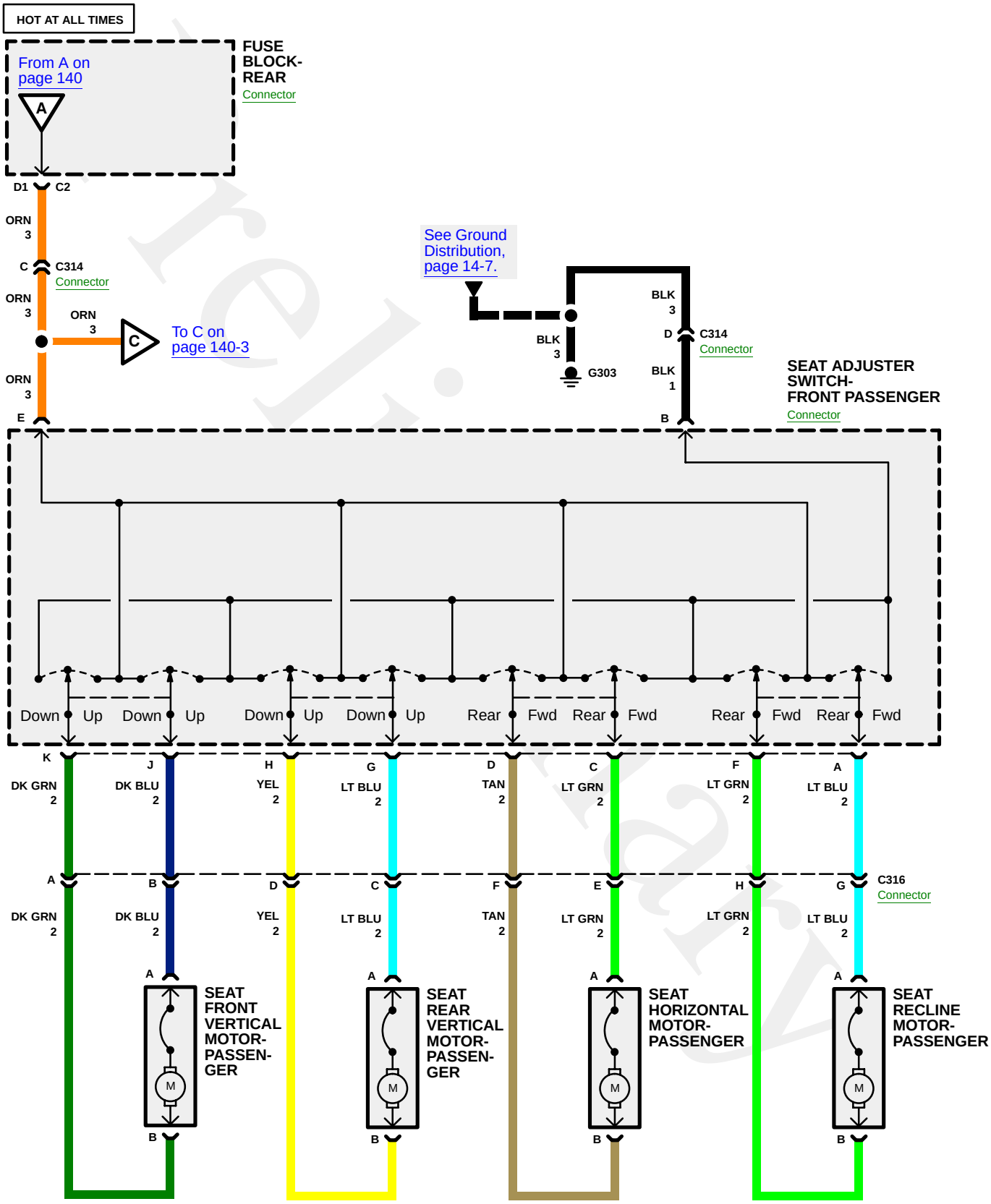
POWER SEATS: DRIVER

Circuit Schematic



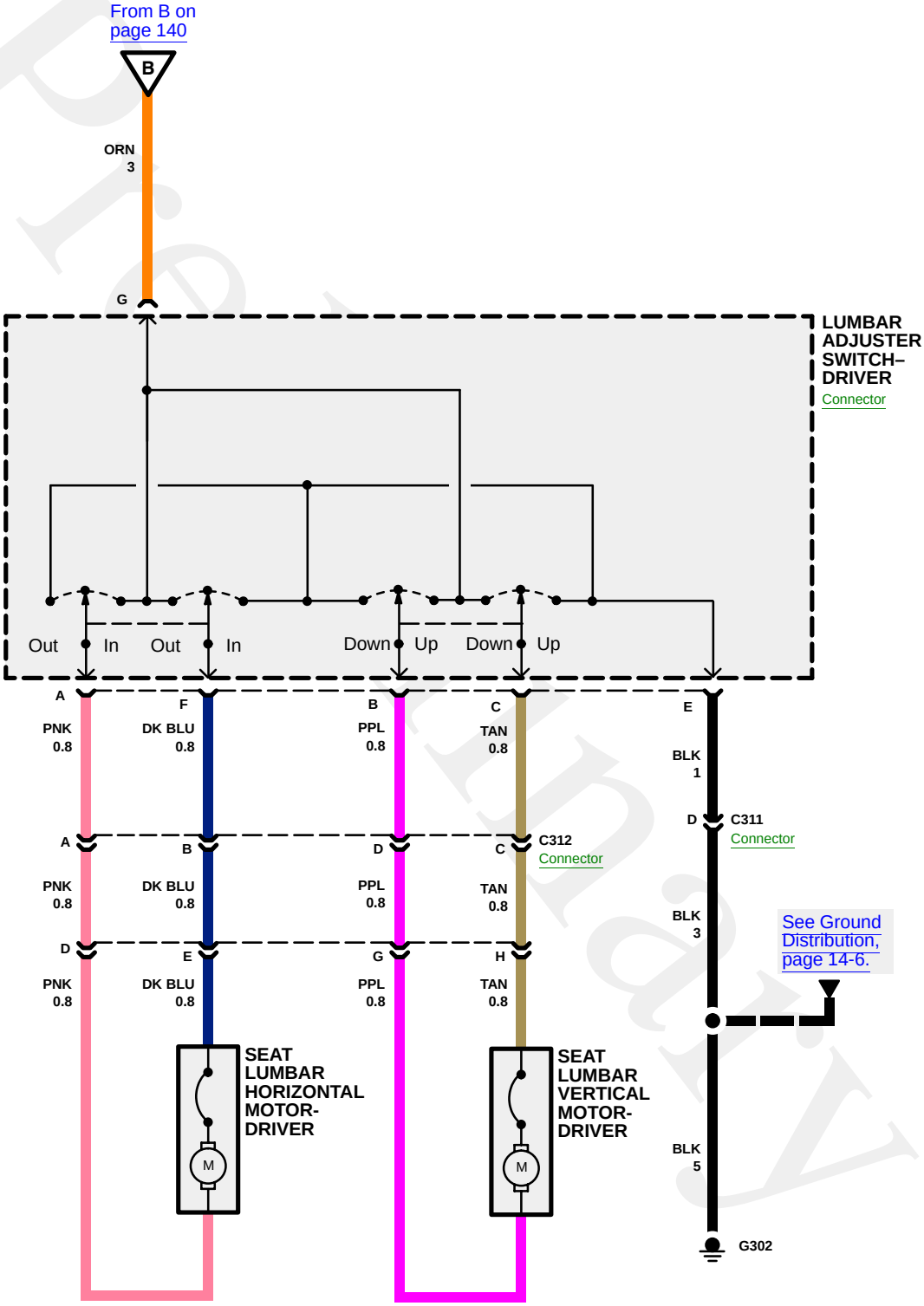
POWER SEATS: PASSENGER

Circuit Schematic



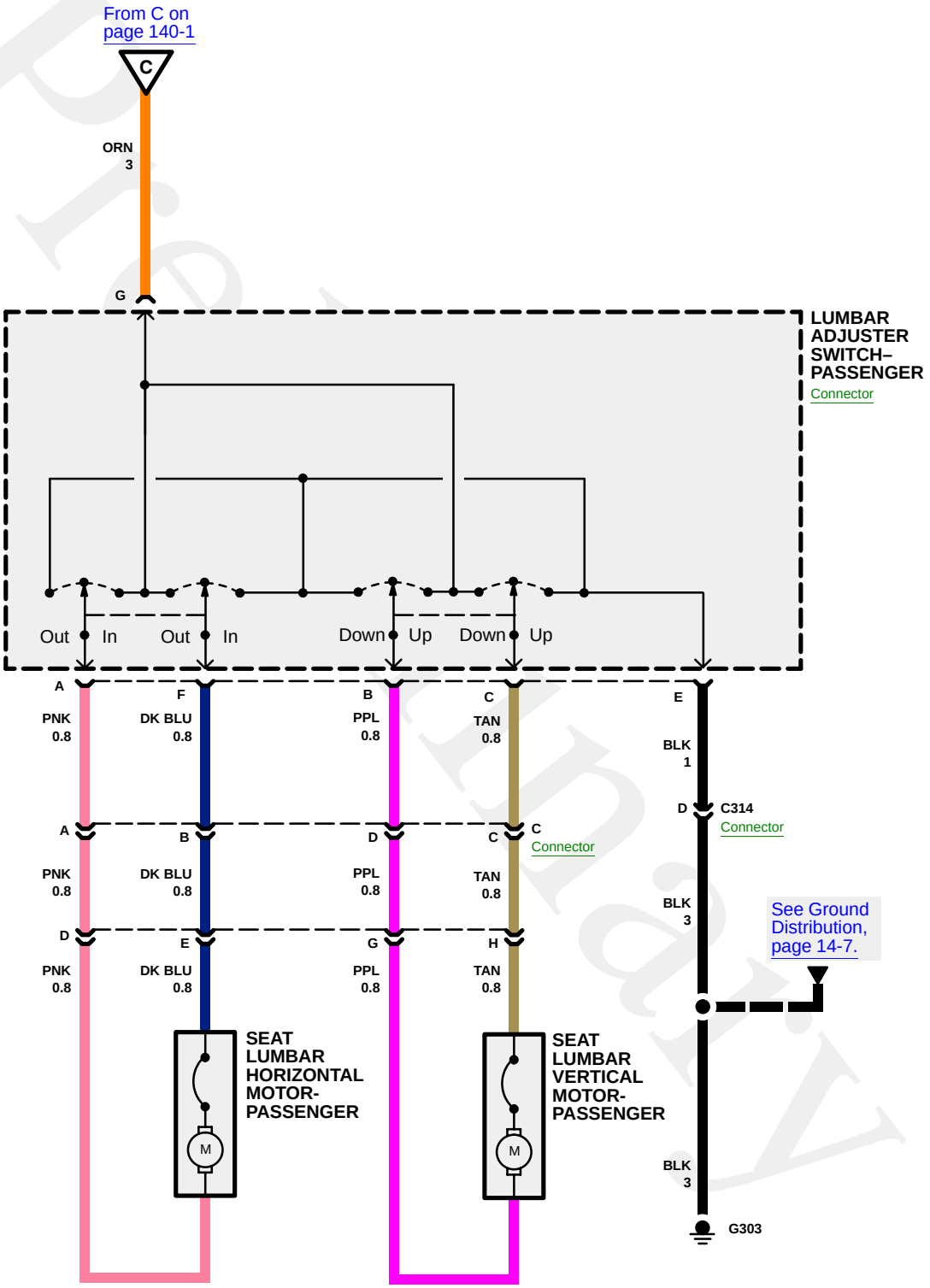
POWER SEATS: DRIVER LUMBAR

Circuit Schematic



POWER SEATS: PASSENGER LUMBAR

Circuit Schematic



POWER SEATS

Circuit Operation

Power Seat System Components

The power seat system for the driver and passenger consists of the following components:

- Power Seat Switch
- Seat Horizontal Motor
- Seat Front Vertical Motor
- Seat Rear Vertical Motor
- Seat Recliner Motor
- Passenger Seat Module

Power Seat System Operation

Two power seat systems are available in this vehicle. The AR9 system is deluxe heated bucket seats with driver memory, and utilizes driver and passenger seat control modules. For the driver memory seat operation refer to Memory Seats Description and Operation . The A51 system is 8 way power adjustable bucket seats with power lumbar, and all of the adjuster motors are directly controlled through the switch assemblies.

A51 Power Seats

Battery voltage is supplied to the power seat switch through the power seat circuit breaker. While the seat adjuster switches are in an inactive state the switch contacts are closed to the power seat switch ground circuit. When a power seat switch is pressed to an active state the switch contact is closed to the battery voltage supply circuit. Each seat adjuster motor is controlled by the power seat switch through 2 motor control circuits. The seat adjuster motors are bidirectional and the direction of adjuster motor rotation is determined by which of the adjuster motor control circuits is switched to battery voltage while the other remains grounded.

AR9 Front Passenger Seat

Battery voltage is supplied to the passenger seat module through the power seat circuit breaker. The passenger seat module supplies the seat adjuster switch assembly with a battery positive reference voltage. While the seat adjuster switches are in an inactive state the switch contacts are closed to the adjuster switch ground circuit. When a seat adjuster switch is pressed to an active state the switch contact is closed to the reference voltage circuit. Battery voltage on a switch signal circuit indicates to the seat module the switch status is active. Each seat adjuster motor is controlled by the seat module through 2 motor control circuits. While the seat adjuster motors are in an inactive state the motor control circuits are closed to ground circuit contacts within the seat module. The seat module operates the seat adjuster motors by switching one of a motor's control circuits to battery voltage. The seat adjuster motors are bidirectional and the direction of adjuster motor rotation is determined by which of the adjuster motor control circuits is switched to battery voltage while the other remains grounded.

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POWER SEATS

Component Location Index

(Refer to Section 201 for photographs.)

Component		Photo No.
Fuse Block-Rear	Under the left rear seat	52
Lumbar Adjuster Switch-Driver	On the lower seat, on the side toward the LF door	117
Lumbar Adjuster Switch-Passenger	On the lower seat on the side toward the RF Door	117
Seat Adjuster Switch-Driver	On the lower seat on the side toward the LF Door	117
Seat Front Vertical Motor-Driver	Under driver's seat	118
Seat Front Vertical Motor-Passenger	Under passenger's seat	118
Seat Horizontal Motor-Driver	Under driver's seat	118
Seat Horizontal Motor-Passenger	Under passenger's seat	118
Seat Lumbar Horizontal Motor-Driver	In the driver's seat back	
Seat Lumbar Horizontal Motor-Passenger	In the passenger's seat back	
Seat Lumbar Vertical Motor-Driver	In the driver's seat back	
Seat Lumbar Vertical Motor-Passenger	In the passenger's seat back	
Seat Rear Vertical Motor-Driver	Under driver's seat	118
Seat Rear Vertical Motor-Passenger	Under passenger's seat	118
Seat Recline Motor-Driver	Under driver's seat	118
Seat Recline Motor-Passenger	Under passenger's seat	118
Connector		
C311 (10-BLK)	Lower front of driver's seat	117
C312 (16-BLK)	Under driver's seat	119
C313 (6-GRY)	Under driver's seat	118
C314 (10-BLK)	Lower front of passenger's seat	117
C316 (6-GRY)	Under passenger's seat	118
Ground		
G302	On the lower left B-pillar	105
G303	On the lower right B-pillar	105

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