

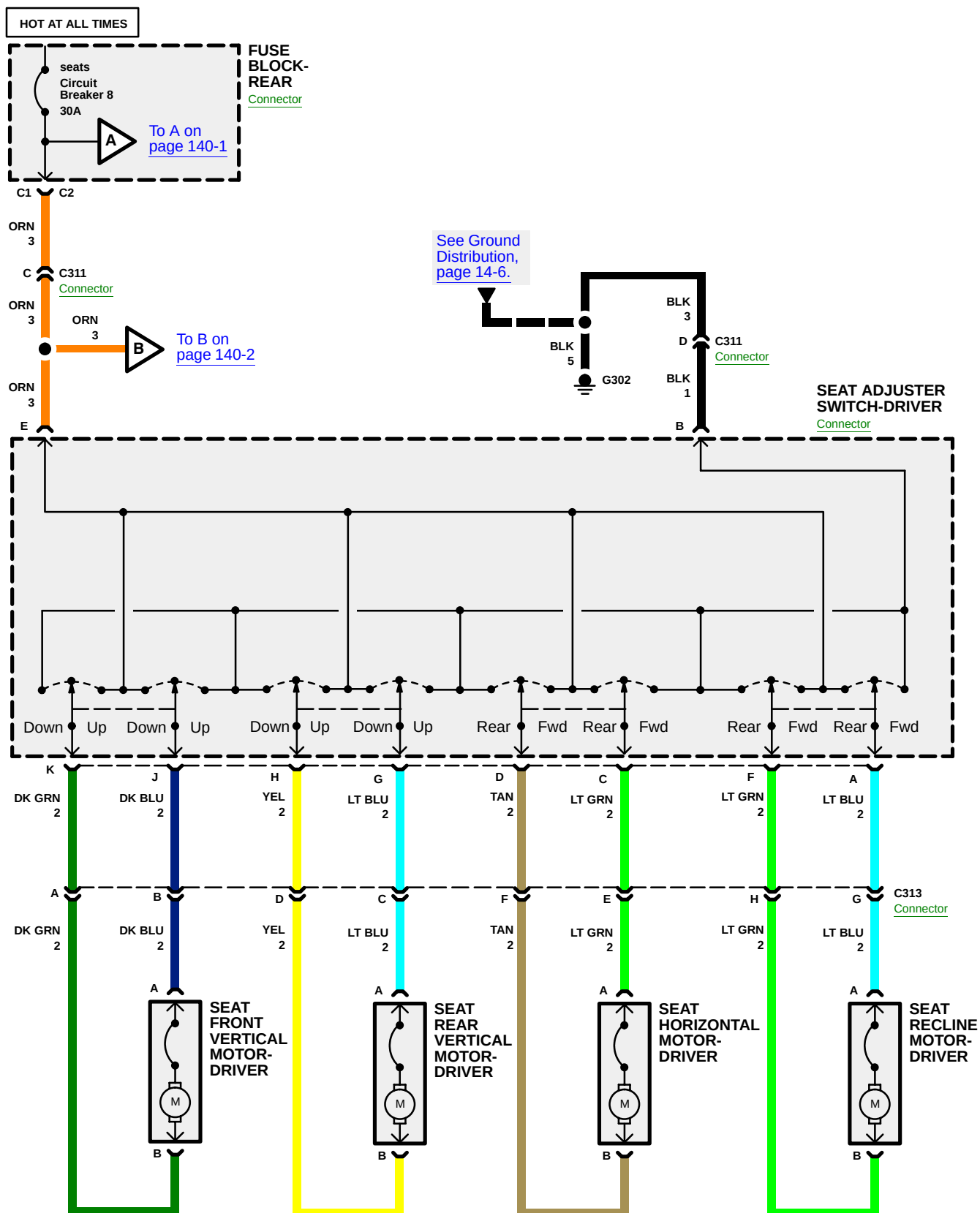
POWER SEATS

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

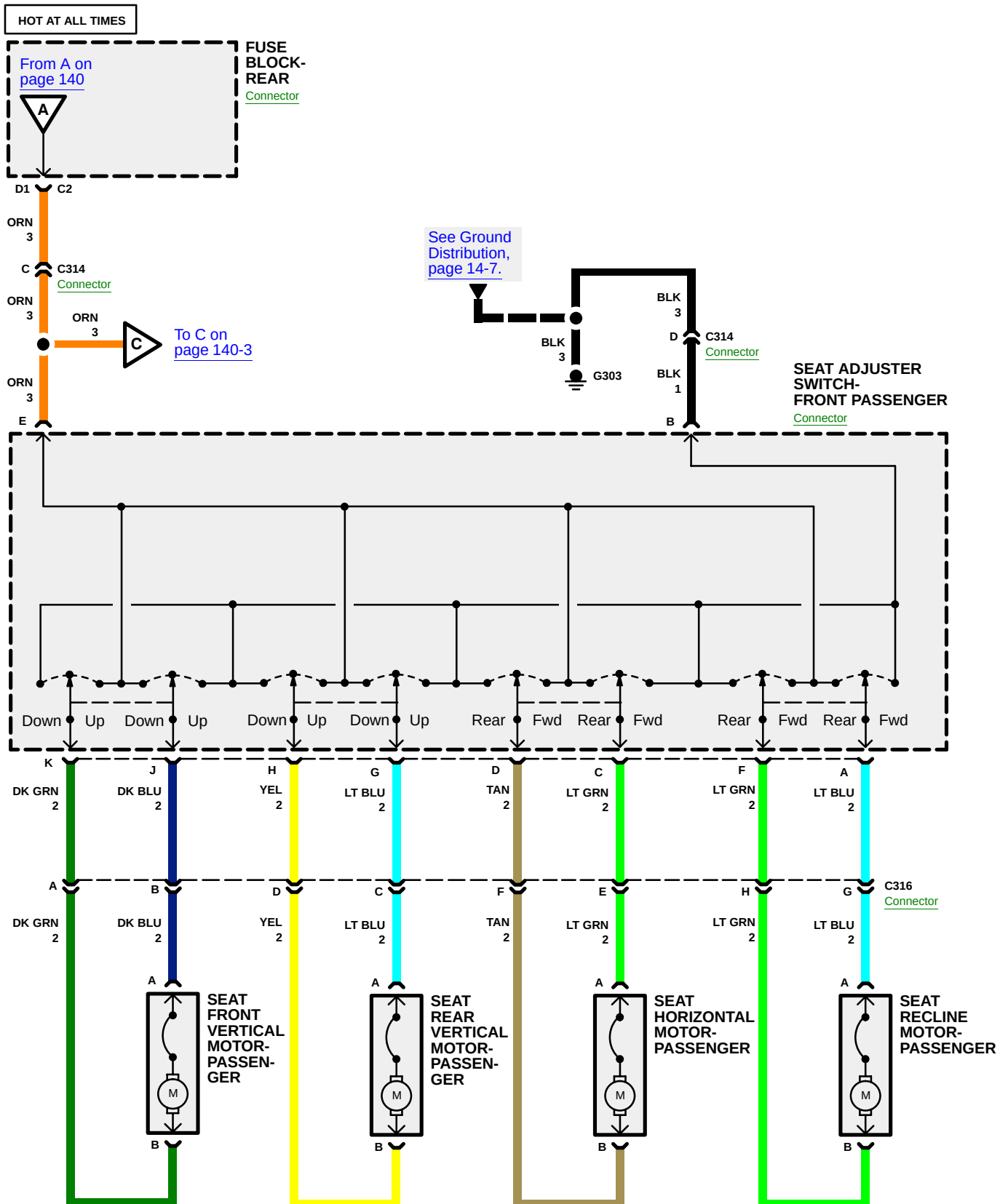
POWER SEATS: DRIVER

Circuit Schematic



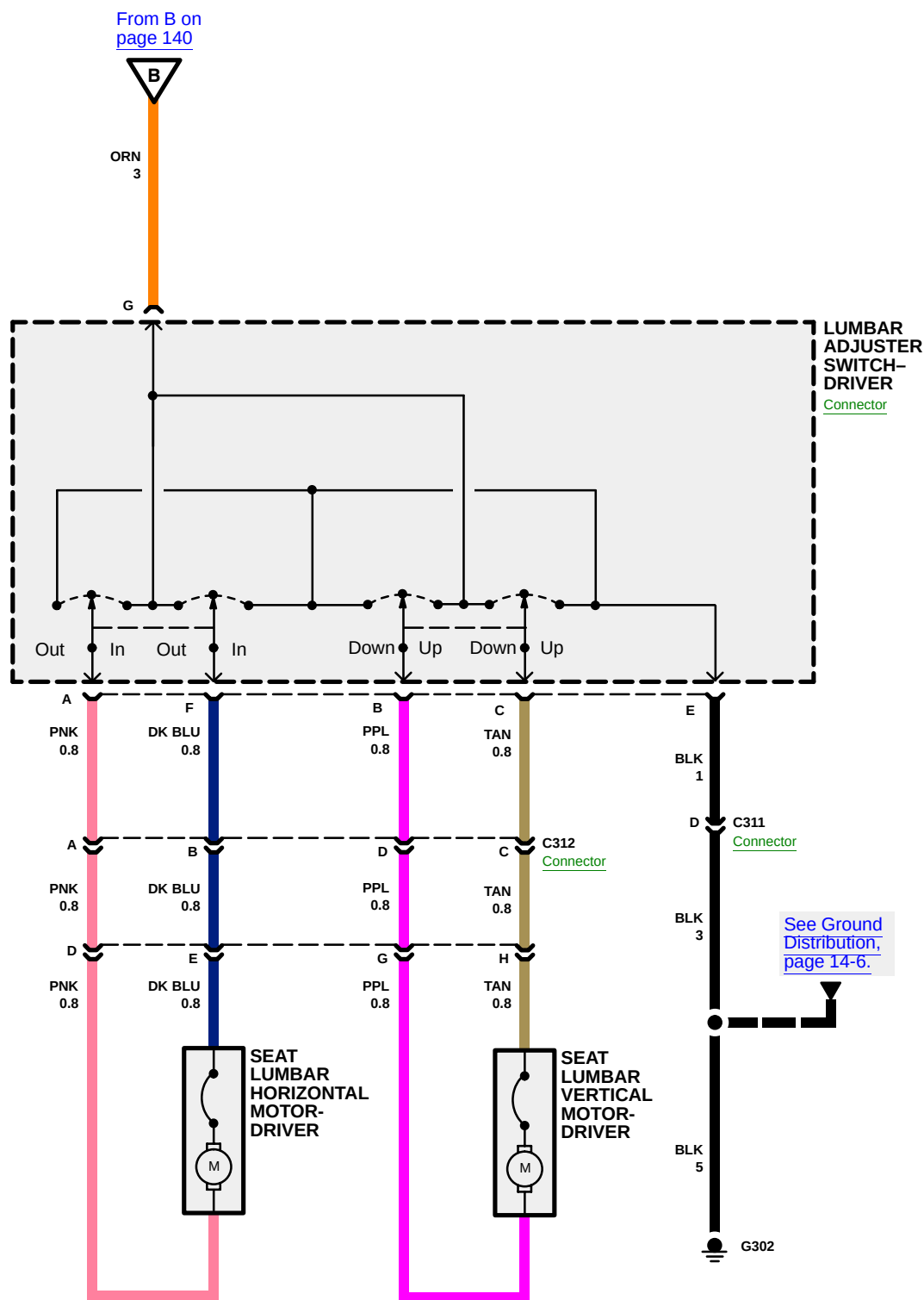
POWER SEATS: PASSENGER

Circuit Schematic



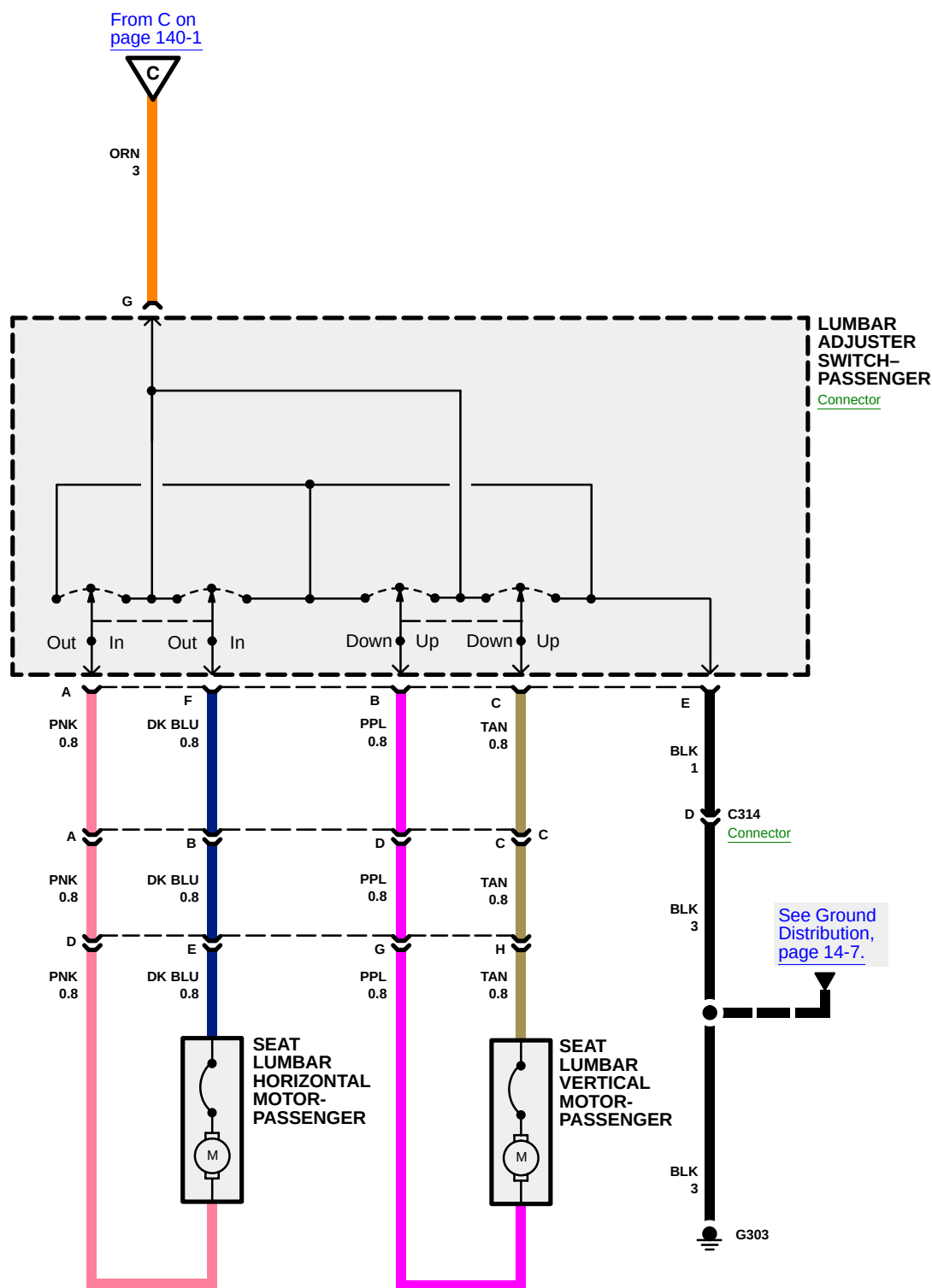
POWER SEATS: DRIVER LUMBAR

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.

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