

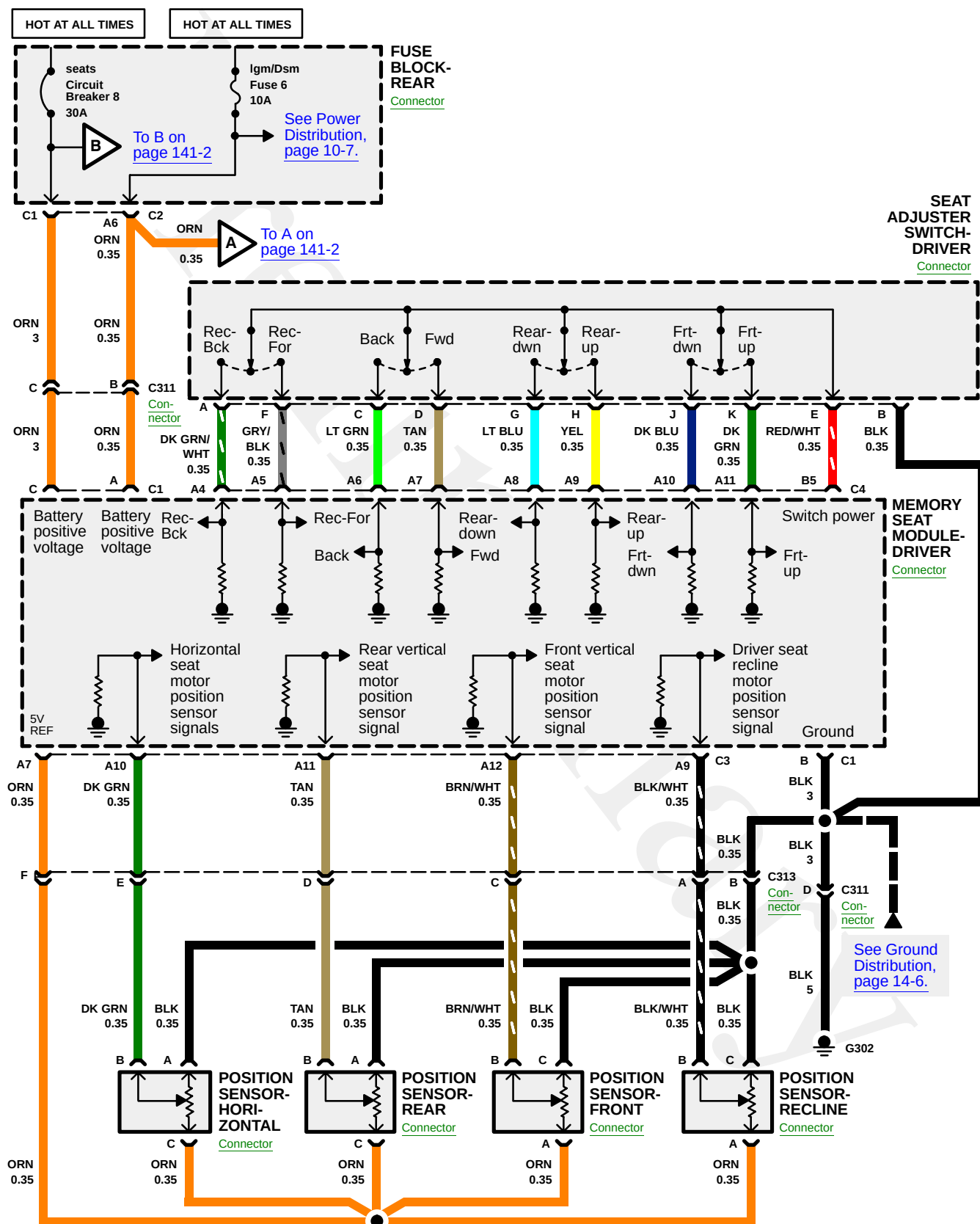
MEMORY SEATS

Component Index

- Driver Door Module (DDM)
- Front Passenger Door Module (FPDM)
- Fuse Block-Rear
- Heated Seat Element-Driver Back
- Heated Seat Element-Driver Cushion
- Heated Seat Element-Passenger Back
- Heated Seat Element-Passenger Cushion
- Heated Seat Thermistor-Driver
- Heated Seat Thermistor-Passenger
- Lumbar Adjuster Switch-Driver
- Lumbar Adjuster Switch-Passenger
- Memory Seat Module-Driver
- Memory Seat Module-Passenger
- Memory Seat Switch-Driver
- Position Sensor-Front
- Position Sensor-Horizontal
- Position Sensor-Rear
- Position Sensor-Recline
- Seat Adjuster Switch-Driver
- Seat Adjuster Switch-Front Passenger
- 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 Position Sensor-Driver
(Forward/Rearward)
- Seat Lumbar Position Sensor-Driver (Up/Down)
- Seat Lumbar Position Sensor-Passenger
(Forward/Rearward)
- Seat Lumbar Position Sensor-Passenger (Up/Down)
- 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

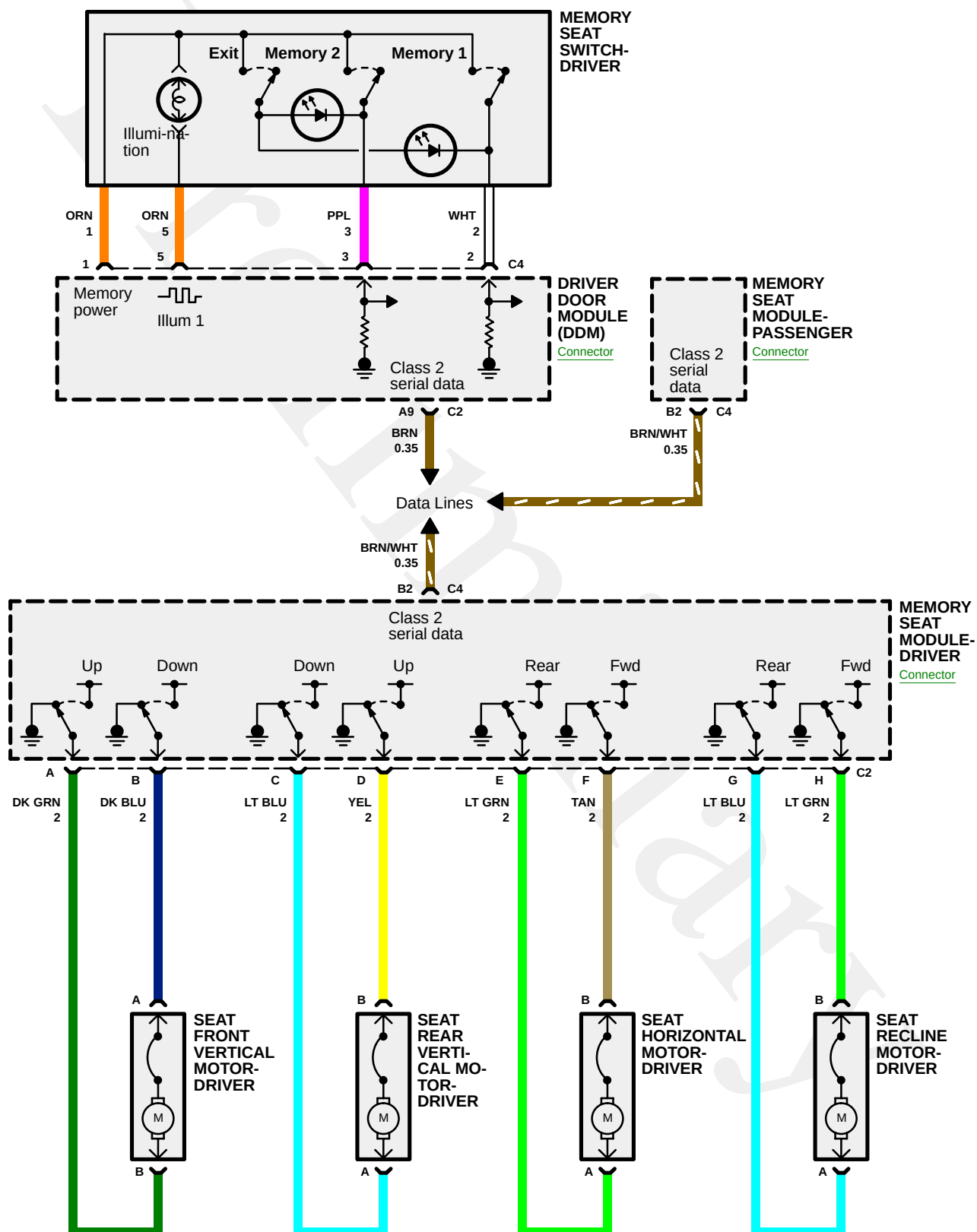
MEMORY SEATS: DRIVER

Circuit Schematic



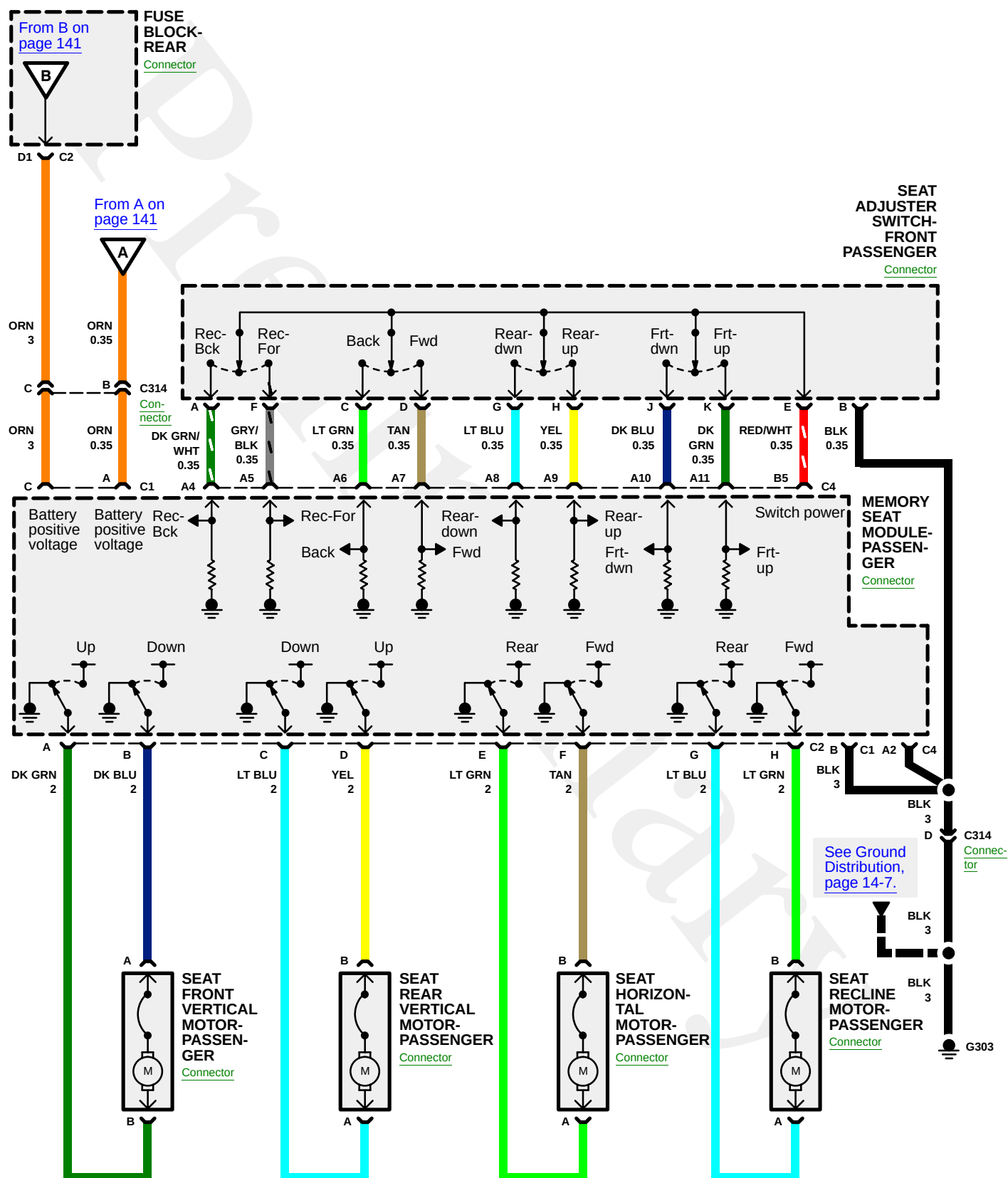
MEMORY SEATS: DRIVER

Circuit Schematic



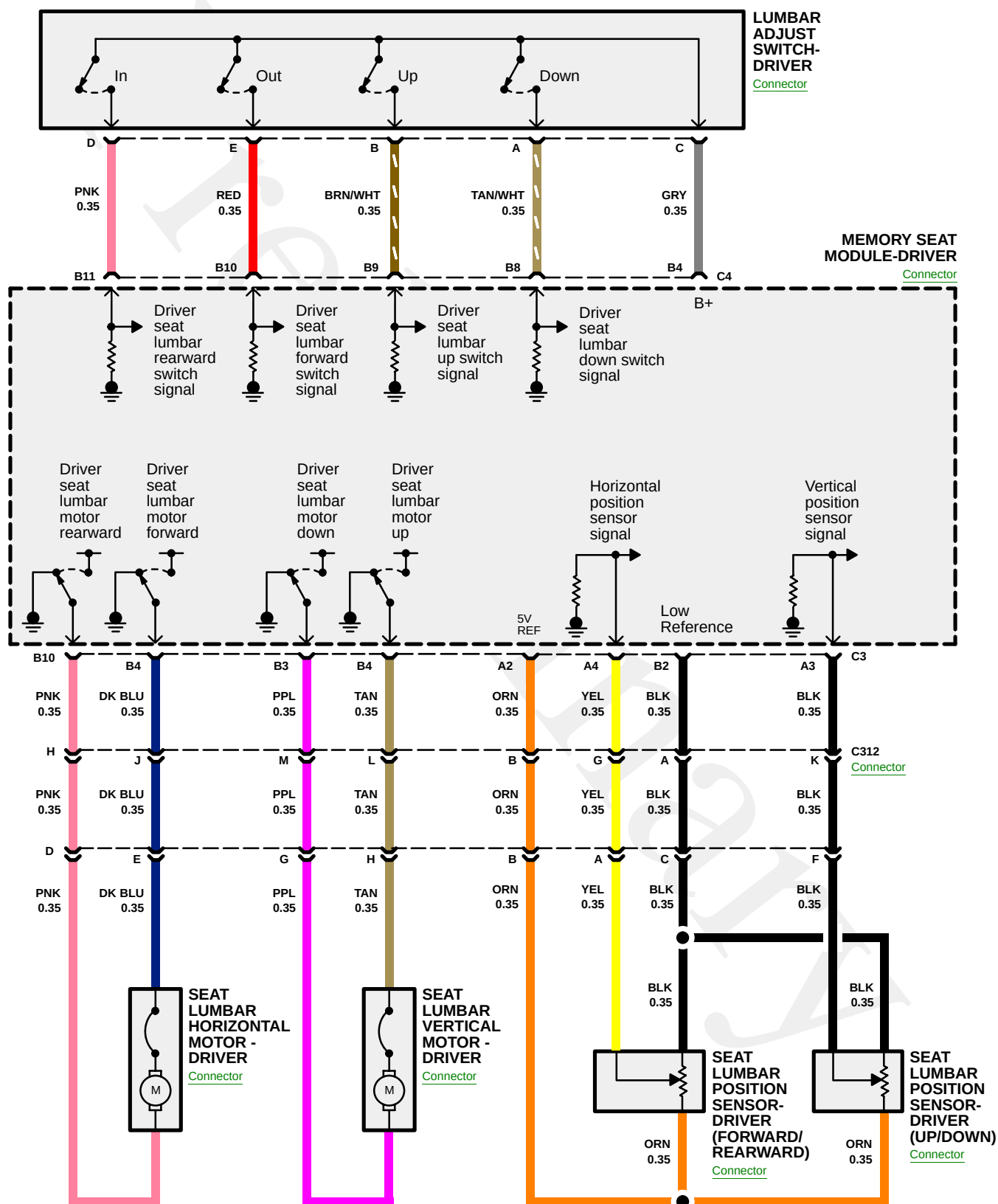
MEMORY SEATS: PASSENGER

Circuit Schematic



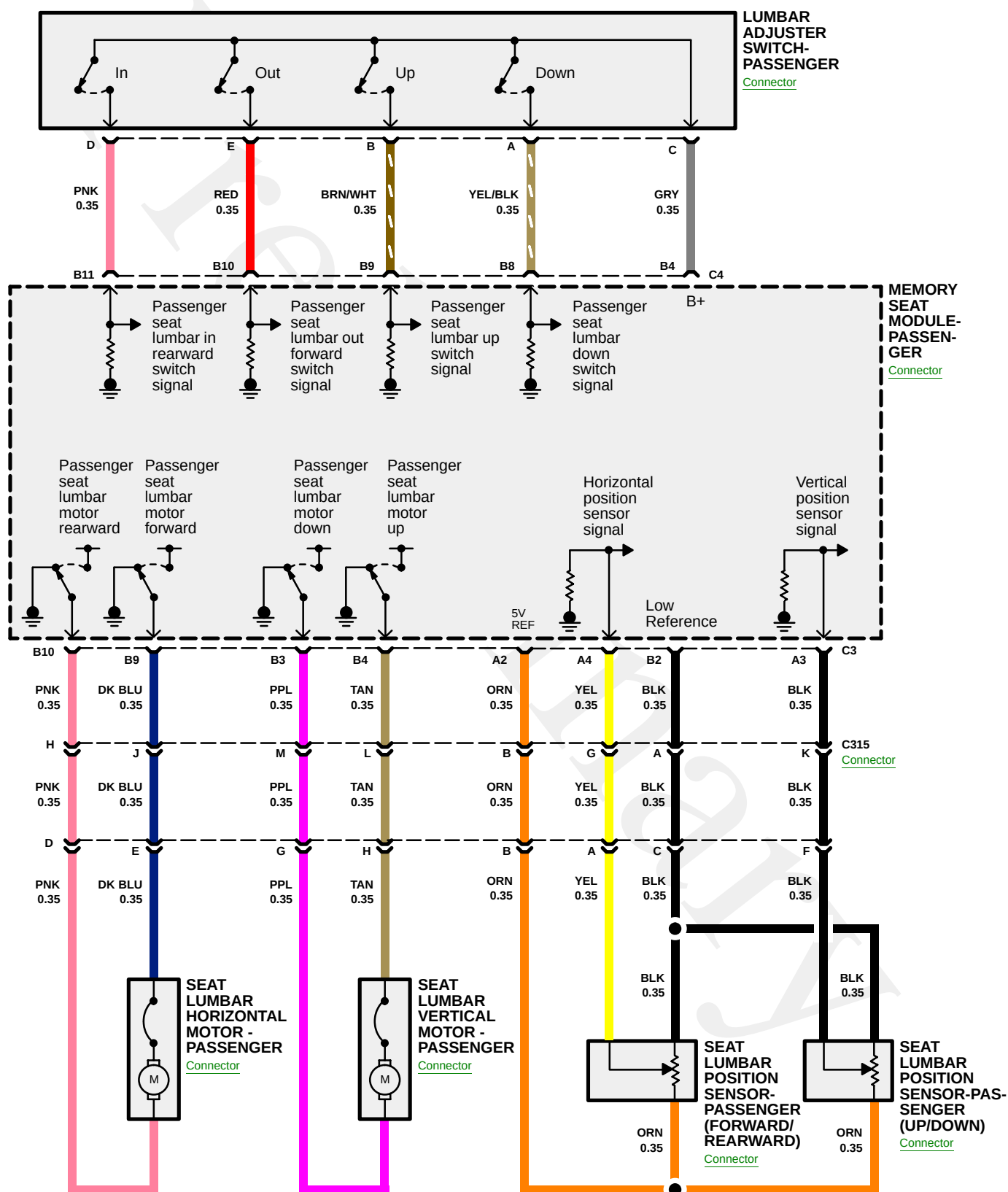
MEMORY SEATS: LUMBAR SUPPORTS

Circuit Schematic



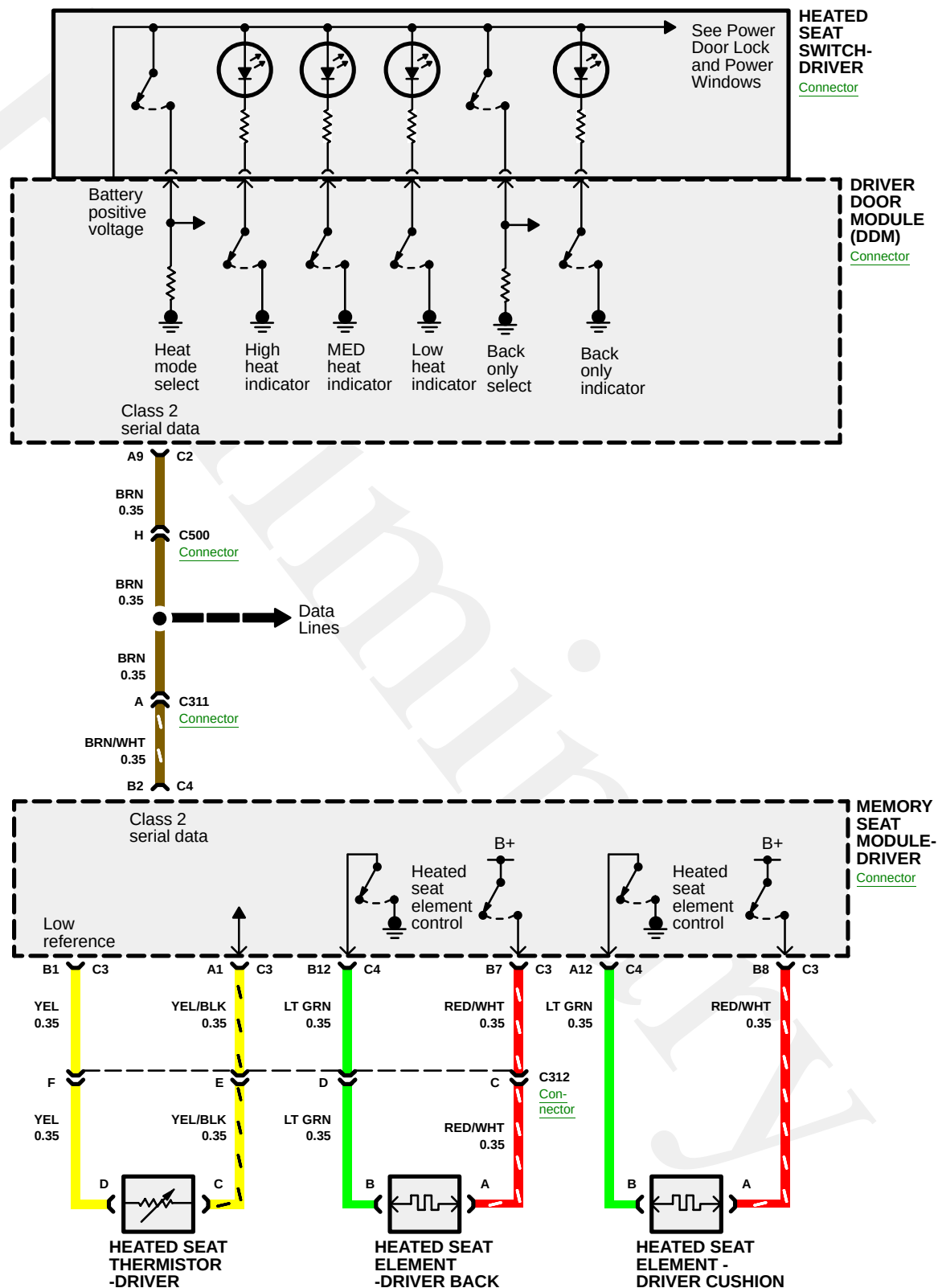
MEMORY SEATS: LUMBAR SUPPORTS

Circuit Schematic



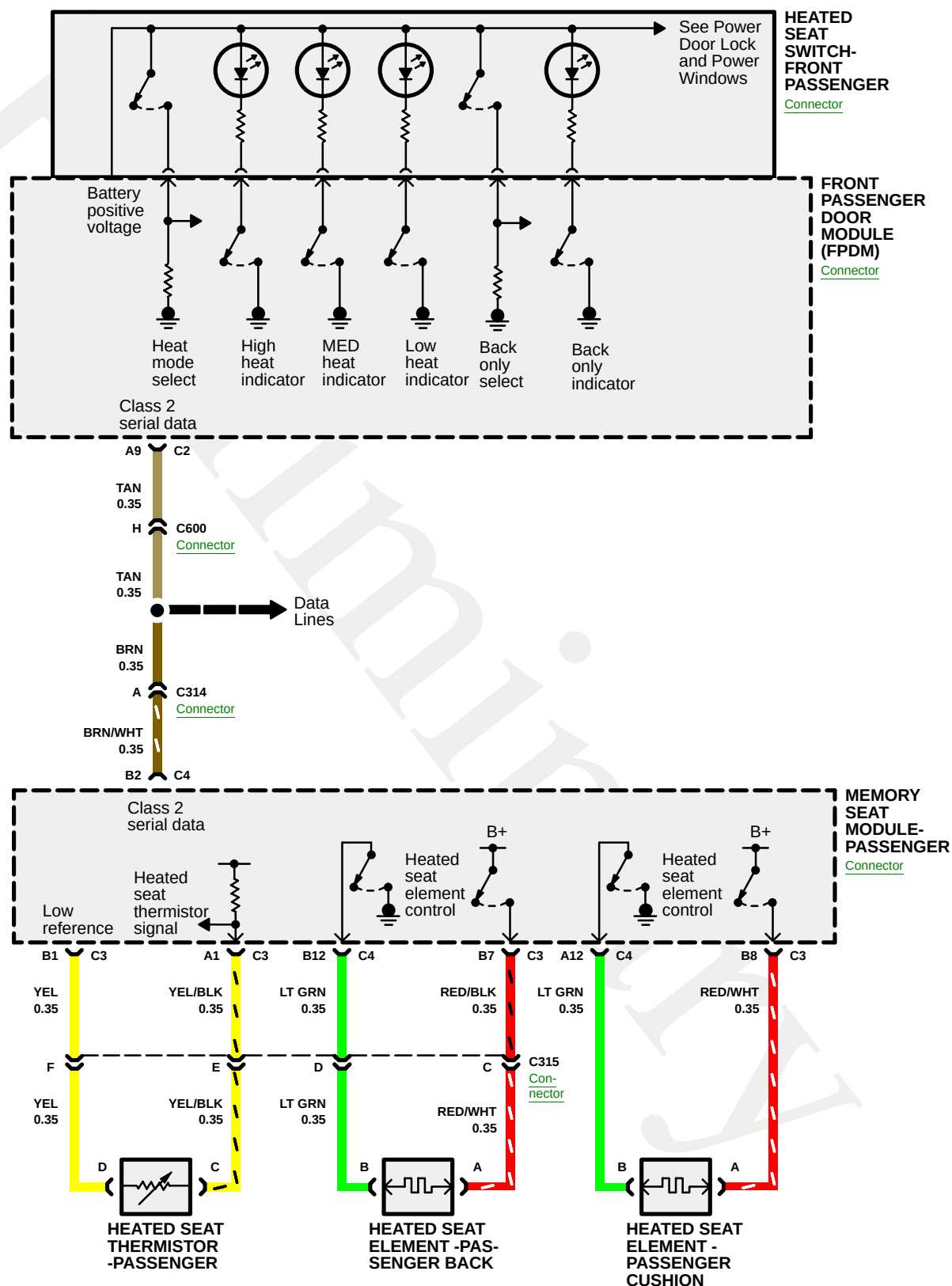
MEMORY SEATS: HEATED SEATS

Circuit Schematic



MEMORY SEATS: HEATED SEATS

Circuit Schematic



MEMORY SEATS

Circuit Operation

Memory Seat System Components

The memory seat system consists of the following components:

- Power Seat Switch
- Seat Horizontal Motor
- Seat Front Vertical Motor
- Seat Rear Vertical Motor
- Seat Recliner Motor
- Driver Seat Module
- Memory Seat Switch

Memory Seat System Description

Battery voltage is supplied to the driver seat module through the power seat circuit breaker. The driver 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 driver seat module the switch status is active. Each seat adjuster motor is controlled by the driver 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 driver seat module. The driver 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.

Memory Set/Recall Operation

The seat adjuster motors are equipped with internal position sensors. The adjuster motor position sensors are monitored by the driver seat module and are used to determine the seat position when storing or recalling memory settings. The driver seat adjuster motors are equipped with potentiometer type position sensors. The front vertical, rear vertical, horizontal, and recline position sensors are supplied with common 5-volt reference and ground circuits from the driver seat module. The position sensor signal circuits are supplied 5 volts through resistors then monitored within the driver seat module. The signal voltages monitored by the driver seat module range from 0.39 -4.58 volts and are determined by the wiper locations on the resistors within the position sensors. The position sensor signal circuit voltage levels are used by the driver seat module to determine the seat position when storing or recalling memory seat position settings.

The memory recall switch assembly on the driver's door provides inputs to the driver door module. Battery voltage is supplied to the memory recall switch assembly from the driver door module. When a memory recall 1, 2, or EXIT switch is pressed, the switch contacts close the appropriate switch signal circuit to the battery voltage supply circuit within the memory recall switch assembly. When the driver door module receives active switch signals from the memory recall switch assembly, the appropriate commands are sent to the driver seat module using the Class 2 Serial Data circuit.

Memory seat recall operation is allowed only with the transmission selector lever in the PARK position while the ignition is on. The transmission selector lever position data is provided to the driver seat module by a message through the Class 2 Serial Data circuit.

MEMORY SEATS

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
Driver Door Module (DDM) ... On lower part of the driver door switch panel	95
Front Passenger Door Module (FPDM)	
On lower part of passenger door switch panel	96
Fuse Block-Rear	52
Lumbar Adjuster Switch-Driver	117
On the lower seat, on the side toward the LF door	
Lumbar Adjuster Switch-Passenger	117
On the lower seat on the side toward the RF Door	
Memory Seat Module-Driver	121
Mounted on underside of seat	
Memory Seat Module-Passenger	121
Mounted on underside of seat	
Memory Seat Switch-Driver ... Part of driver's door module (DDM)	95
Position Sensor-Front	
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Position Sensor-Horizontal ... Under the driver's seat	
Position Sensor-Rear	
Under the driver's seat	
Position Sensor-Recline ... Under the driver's seat	
Seat Adjuster Switch-Driver ... On the lower seat on the side toward the LF Door	117
Seat Adjuster Switch-Front Passenger	117
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Seat Front Vertical Motor-Driver	118
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Under passenger's seat	
Seat Horizontal Motor-Driver	118
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Seat Horizontal Motor-Passenger	118
Under passenger's seat	
Seat Lumbar Horizontal Motor-Driver	
In the driver's seat back	
Seat Lumbar Horizontal Motor-Passenger	
In the passenger's seat back	
Seat Lumbar Position Sensor-Driver (Forward/Rearward)	
In the driver's seat back	
Seat Lumbar Position Sensor-Driver (Up/Down)	
In the driver's seat back	
Seat Lumbar Position Sensor-Passenger (Forward/Rearward)	
In the passenger's seat back	
Seat Lumbar Position Sensor-Passenger (Up/Down)	
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	118
Under driver's seat	

MEMORY SEATS

Component Location Index

(Refer to Section 201 for photographs.)

<u>Component</u>	<u>Photo No.</u>
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-BLK)	Under driver's seat 118
C314 (10-BLK)	Lower front of passenger's seat 117
C315 (16-BLK)	Under passenger's seat 119
C316 (6-BLK)	Under passenger's seat 118
C500 (12-BLK)	Midpoint of leading edge of left front door 93
C600 (12-BLK)	Midpoint of leading edge of right front door 93
Ground	
G302	On the lower left B-pillar 105
G303	On the lower right B-pillar 105