

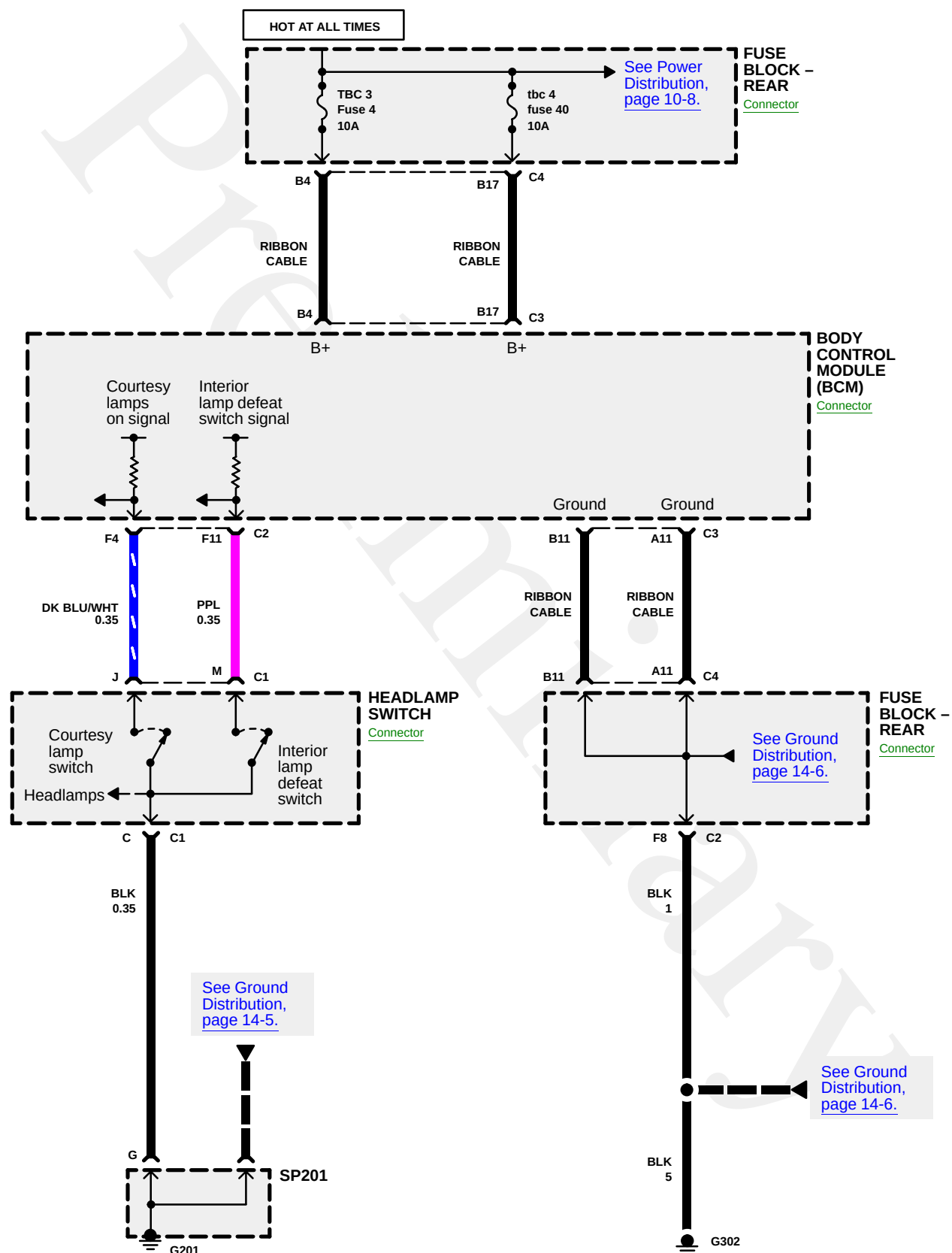
INTERIOR LIGHTS

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- Cargo Lamp
- Courtesy/Reading Lamp-Left Center
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- Driver Door Module (DDM)
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- Fuse Block-Rear
- Headlamp Switch
- Liftgate Ajar Switch
- Liftgate Module (LGM)
- Miniwedge (Door Jamb Switch)-Driver
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- SP201
- Vanity Mirror Lamp-Left Front
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INTERIOR LIGHTS

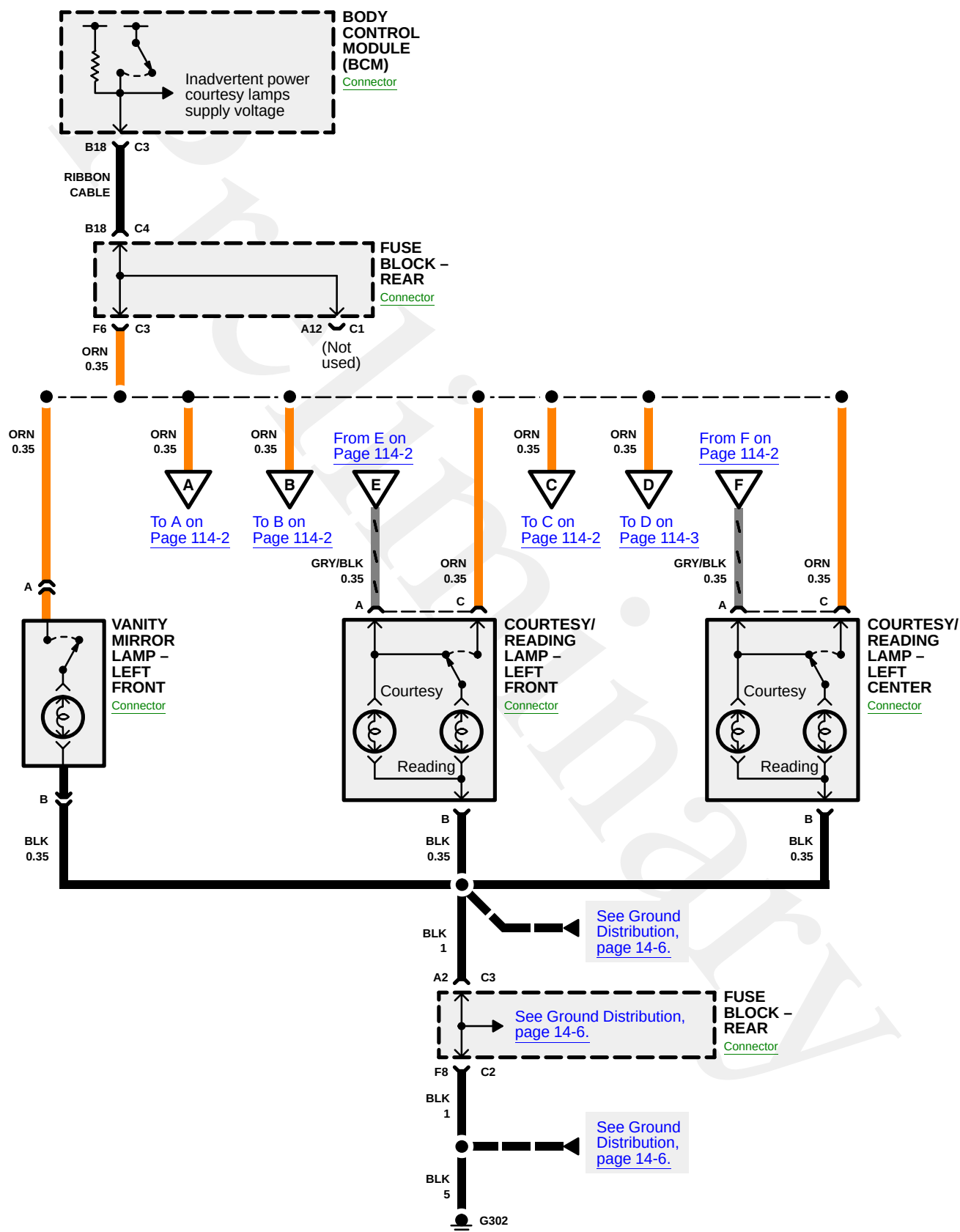
Circuit Schematic



114-0

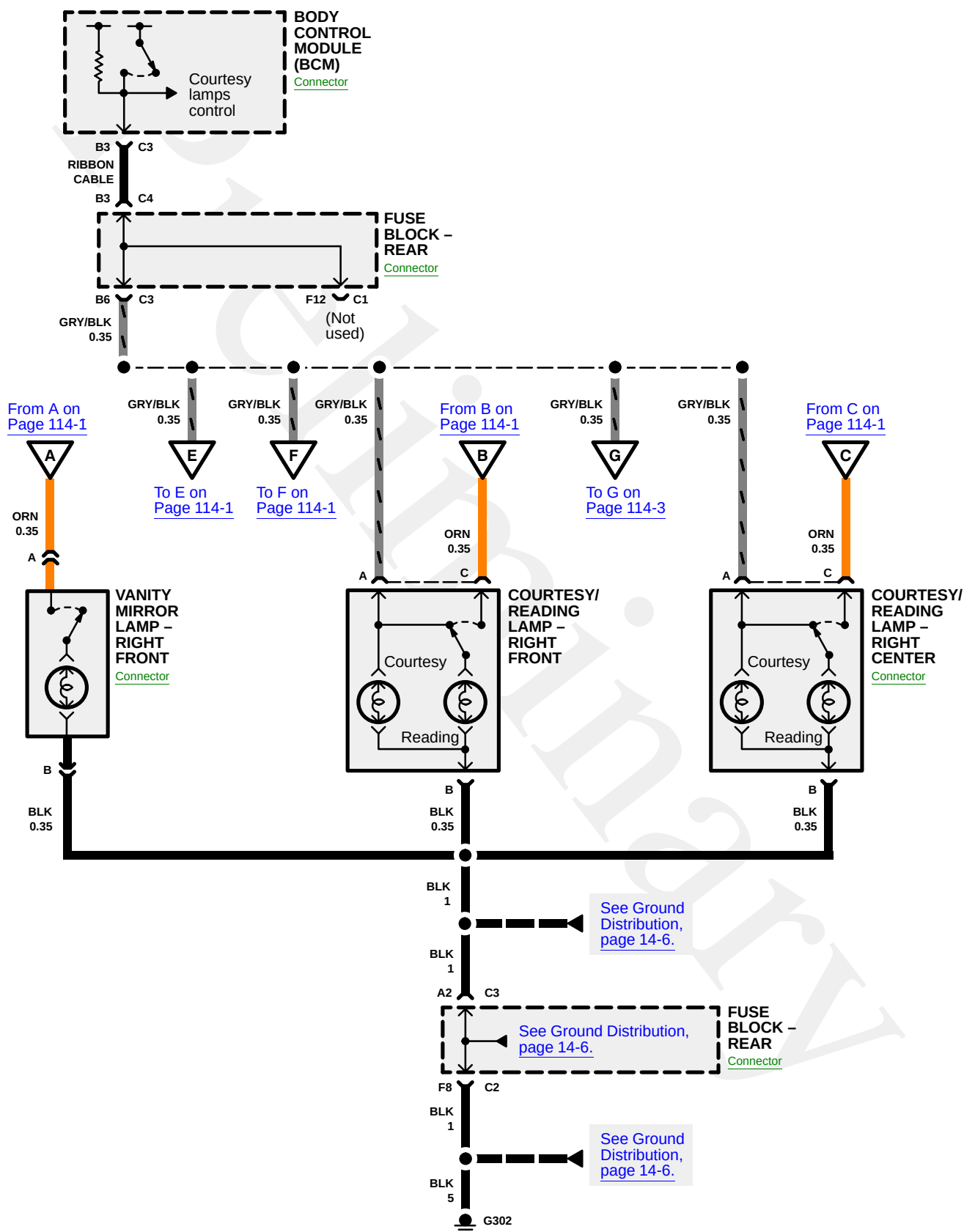
INTERIOR LIGHTS

Circuit Schematic



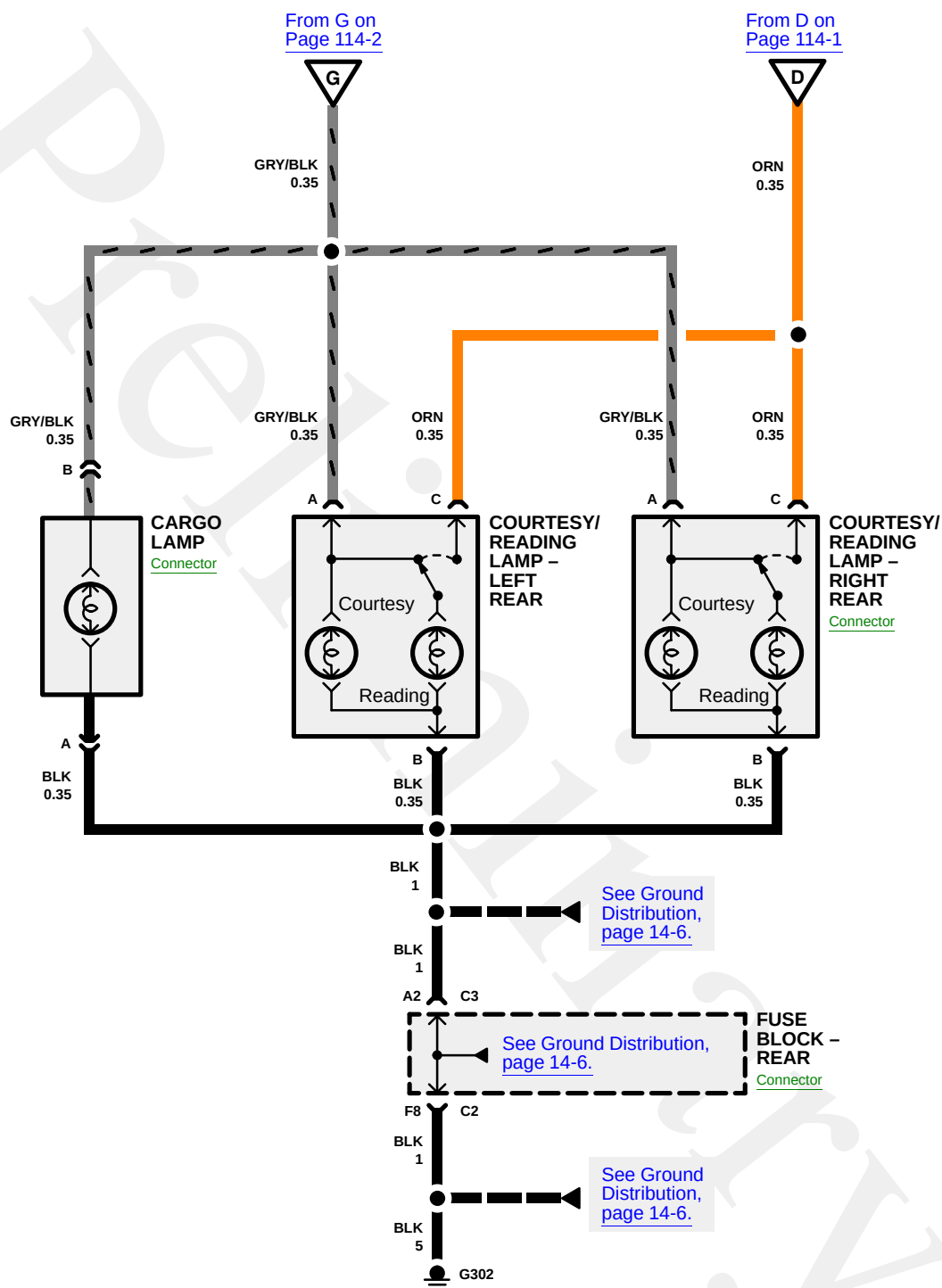
INTERIOR LIGHTS

Circuit Schematic



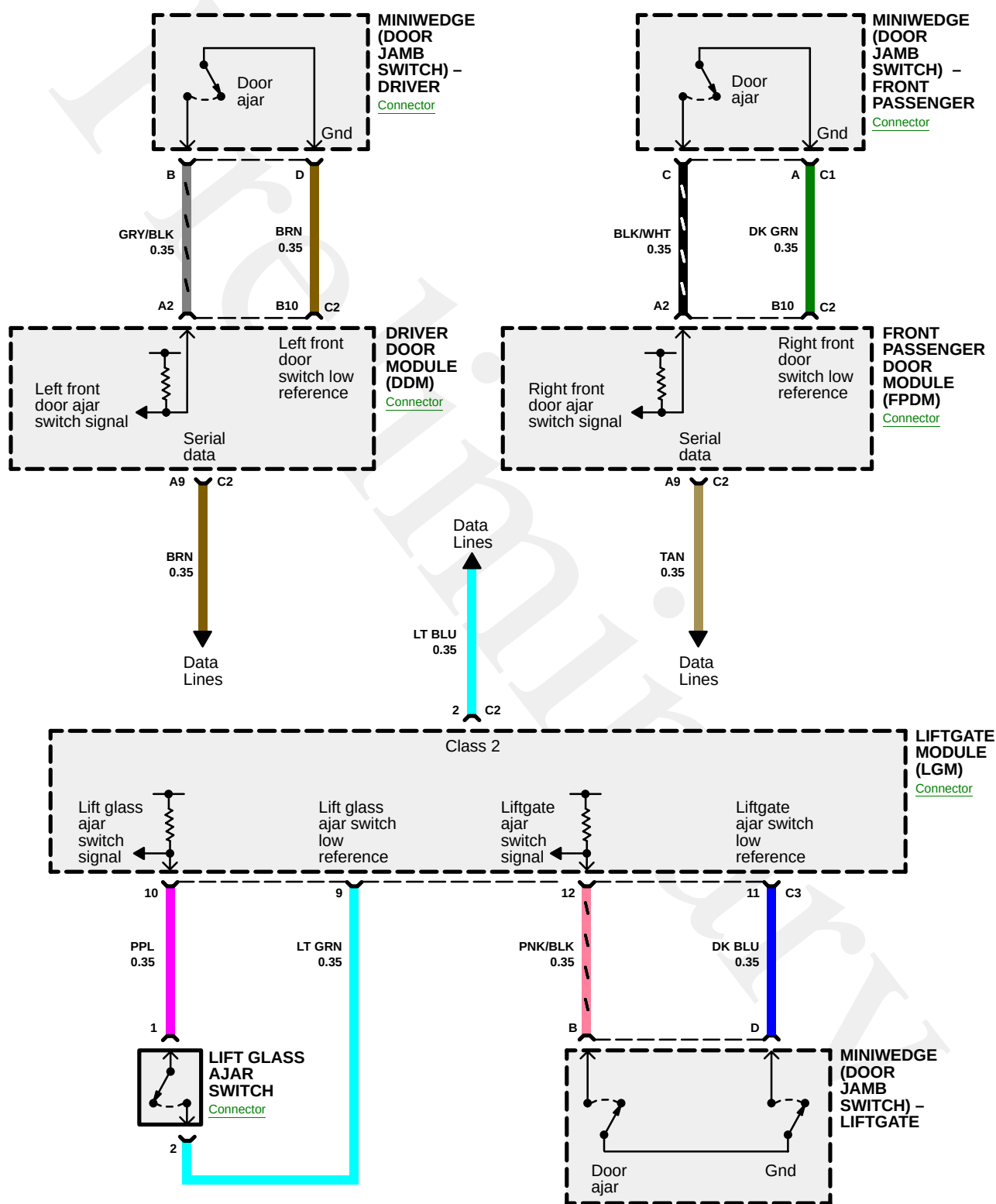
INTERIOR LIGHTS

Circuit Schematic



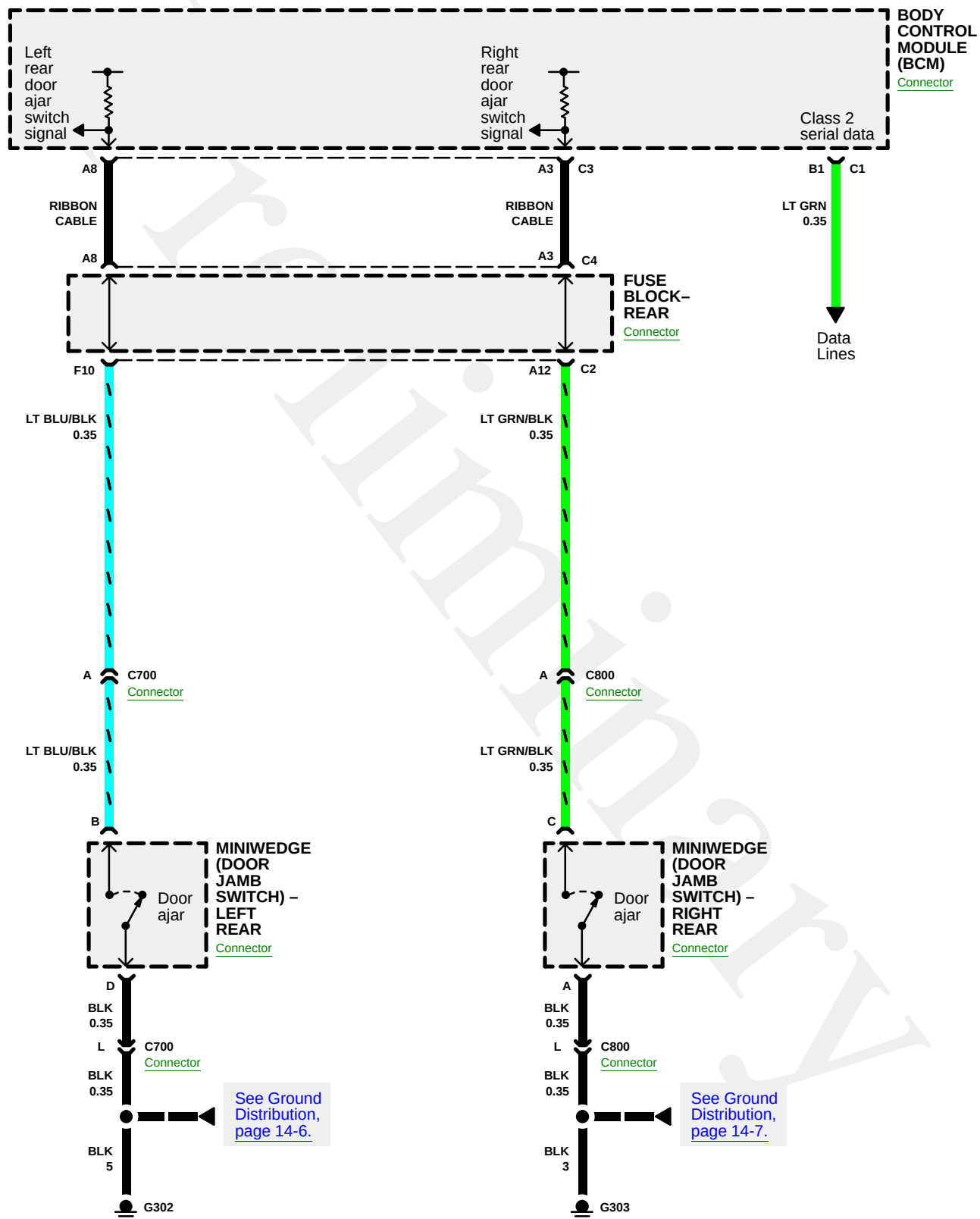
INTERIOR LIGHTS

Circuit Schematic



INTERIOR LIGHTS

Circuit Schematic



INTERIOR LIGHTS

Circuit Operation

Interior Lamps

The interior lighting consist of the following 2 groups. This first group includes lamps that may not be dimmed.

- The Cargo lamp
- The Dome lamps
- The Reading Lamps
- The Vanity Mirror Lamps

Courtesy Lamps

The courtesy lamps include the reading lamps, cargo lamp, and dome lamps. The cargo lamp and dome lamps may be manually turned on or off by placing the interior lamp switch in the ON or OFF position. When the driver places the dome lamp defeat switch in the OFF position, these courtesy lamps will be disabled. If a door is opened, the courtesy lamps illuminate. After all the doors have been closed, the courtesy lamps will remain illuminated approximately 15 seconds after the last door closes. The courtesy lamps will also turn on prior to any door being opened and will remain illuminated approximately 40 seconds when the driver removes the ignition key. The BCM will immediately turn off the courtesy lamps if a door lock command is received with all of the doors closed, or if the ignition switch is turned to either the ON or RUN position.

Keyless Entry Interior Illumination

When the driver uses the door key in order to unlock the doors, the body control module (BCM) receives a door unlock signal. The BCM must have inputs that indicate that the ignition switch is OFF, the courtesy lamp switch is OFF and all the doors are closed. The BCM will then illuminate the interior lamps. The courtesy lamps will remain illuminated for approximately 15 seconds after the door is closed. If the door locks are activated to the LOCK position, or if the ignition switch is turned to either the RUN or CRANK position, the courtesy lamps will turn off immediately.

When the driver uses the remote function actuator transmitter to unlock the doors or presses the panic button, the BCM will keep the courtesy lamps on for approximately 15 seconds. If the door locks are activated to the UNLOCK or LOCK position or if the ignition switch is turned to either the RUN or CRANK position, the courtesy lamps will turn off immediately. The BCM will also keep the courtesy lamps on for approximately 40 seconds after an alarm event is completed.

Vanity Mirror Lamps

The inadvertent power courtesy lamps supply voltage circuit of the BCM provides battery positive voltage to each vanity mirror lamp. When the vanity mirror cover on the sunshade is opened, a switch closes to provide a ground circuit and the vanity lamp illuminates.

Battery Rundown Protection/Inadvertent Power

The BCM inadvertent power courtesy lamps supply voltage circuit provides battery positive voltage to all of the interior reading lamps and both visor vanity mirror lamps. In the event that any of these lamps were to remain illuminated for a period of more than 20 minutes with the ignition switch in the OFF position, the BCM will deactivate the inadvertent power courtesy lamps supply voltage circuit to prevent a total battery discharge condition. Only when the ignition switch is cycled back to the RUN position will the BCM reset the internal timer and reactivate the inadvertent power courtesy lamps supply voltage circuit.

The BCM also utilizes the inadvertent power courtesy lamps supply voltage circuit as a courtesy lamp request signal circuit when none of the lamps in the circuit are illuminated. When a lamp switch is activated, the BCM receives the request for lamp illumination and switches to supplying voltage to the inadvertent power courtesy lamps supply voltage circuit.

INTERIOR LIGHTS

Circuit Operation

Interior Lamps Dimming

The second group includes lamps which may be dimmed. This group may use a combination of vacuum fluorescent (VF) illumination and of incandescent lamps.

- Door switches and window switches
- HVAC control head assembly
- Radio and steering wheel controls
- The Rear HVAC/Radio controls
- The instrument panel cluster (IPC)

When the ignition switch is turned to the RUN position, the radio's vacuum fluorescent (VF) displays turn on at maximum brightness. When the park lamps are on, all incandescent back lighting turn on at the dimming level indicated by the I/P dimmer switch. At the same time all vacuum fluorescent (VF) displays dim to match the indicated dimming level. The panel dimmer switch potentiometer is an input to the BCM. When the driver selects a dimming setting by moving the I/P dimming switch potentiometer, all incandescent back lighting lamps are provided with a specific voltage. The incandescent back lighting lamps are then grounded at G201, G302, and G303. When the I/P dimmer switch is moved from MIN to MAX, all vacuum fluorescent (VF) displays, as well as all incandescent back lighting respond from minimum intensity to maximum brightness in response to the I/P dimmer switch.

INTERIOR LIGHTS

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
Body Control Module (BCM)	On Rear Fuse Block, under left rear seat 53
Cargo Lamp	In the interior cargo area at the rear of the headliner, above the liftgate. 102
Courtesy/Reading Lamp-Left Center	In the headliner, above the left rear door 100
Courtesy/Reading Lamp-Left Front	In the headliner, above the left front door 82
Courtesy/Reading Lamp-Left Rear	In the headliner, behind the left rear door 101
Courtesy/Reading Lamp-Right Center	In the headliner, above the right rear door 100
Courtesy/Reading Lamp-Right Front	In the headliner, above the right front door 82
Courtesy/Reading Lamp-Right Rear	In the headliner, behind the right rear door 101
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	Under the left rear seat 52
Headlamp Switch	On the left side of the IP 61
Liftgate Ajar Switch	Inside the lower liftgate 114
Liftgate Module (LGM)	Inside the liftgate 113
Miniwedge (Door Jamb Switch)-Driver	Inside left front door 97
Miniwedge (Door Jamb Switch)-Front Passenger	Inside right front door. 97
Miniwedge (Door Jamb Switch)-Left Rear	Inside left rear door 98
Miniwedge (Door Jamb Switch)-Liftgate	Inside the lower liftgate 114
Miniwedge (Door Jamb Switch)-Right Rear	Inside right rear door 98
SP201	Near right front of lower console 80
Vanity Mirror Lamp-Left Front	In the left sunshade 99
Vanity Mirror Lamp-Right Front	In the right sunshade 99
Connector	
C700 (17-NAT)	Midpoint of leading edge of left rear door 94
C800 (17-NAT)	Midpoint of leading edge of right rear door 94
Ground	
G201	Near right front of lower console 80
G302	On the lower left B-pillar 105
G303	On the lower right B-pillar 105