

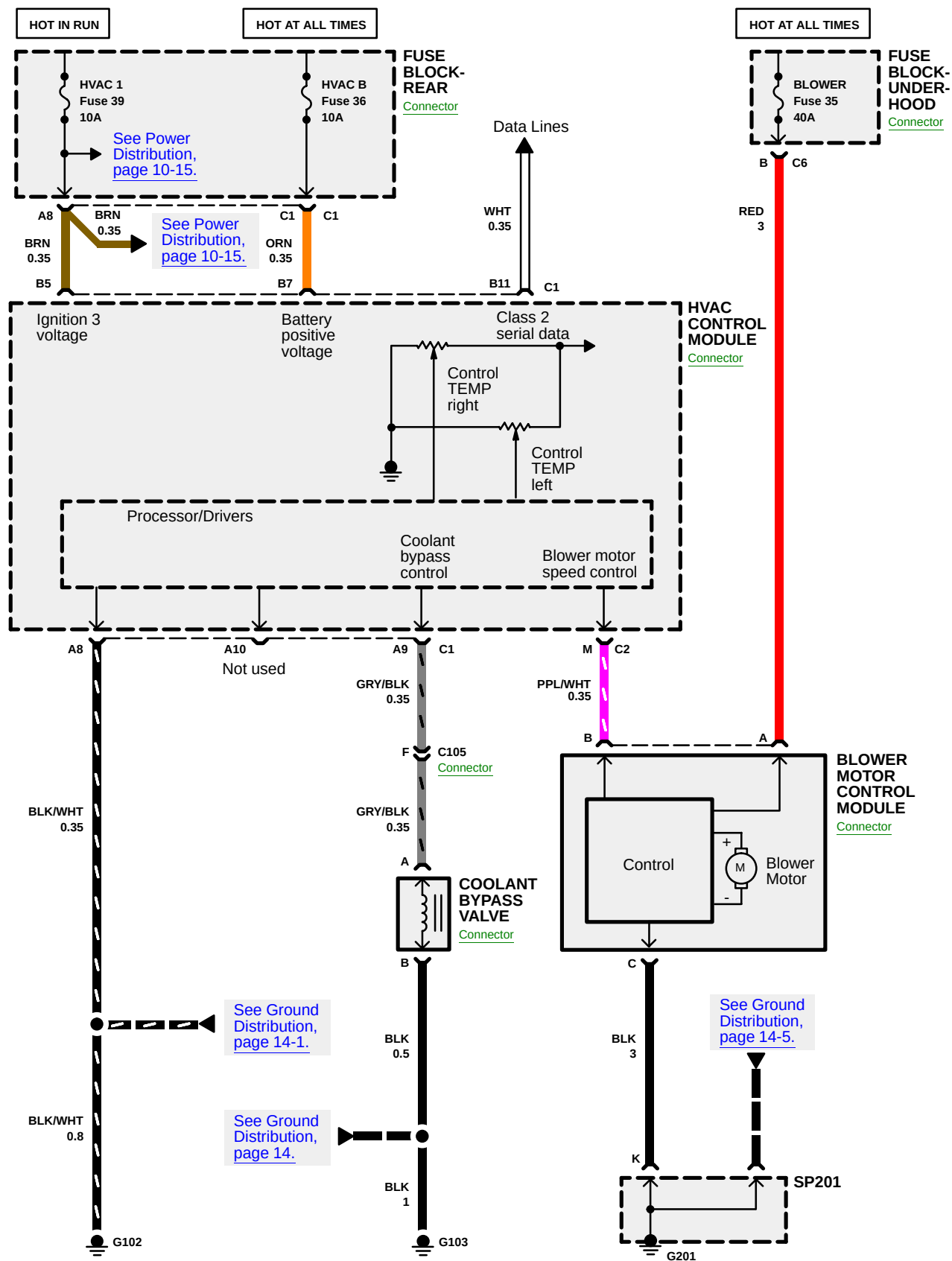
AIR CONDITIONING: AUTOMATIC

Component Index

- A/C Compressor Clutch Assembly (4.2L)
- A/C Compressor Clutch Assembly (5.3L)
- A/C Low Pressure Switch
- A/C Refrigerant Pressure Sensor (4.2L)
- A/C Refrigerant Pressure Sensor (5.3L)
- A/C Relay 44
- Air Temperature Actuator-Auxiliary
- Air Temperature Actuator-Left
- Air Temperature Actuator-Right
- Air Temperature Sensor Assembly-Inside
- Air Temperature Sensor-Lower Left
- Air Temperature Sensor-Lower Right
- Air Temperature Sensor-Upper Left
- Air Temperature Sensor-Upper Right
- Ambient Air Temperature Sensor
- Ambient Light/Sunload Sensor Assembly
- Blower Motor Control Module
- Blower Motor Control Processor-Auxiliary
- Blower Motor Switch-Front Auxiliary
- Blower Motor-Auxiliary
- Body Control Module (BCM)
- Console Mode Actuator
- Coolant Bypass Valve
- Defrost Actuator
- Fuse Block-Rear
- Fuse Block-Underhood
- HVAC Control Module
- HVAC Control Module-Auxiliary
- Inflatable Restraint Steering Wheel Module Coil
- Mode Actuator
- Powertrain Control Module (PCM) (4.2L)
- Powertrain Control Module (PCM) (5.3L)
- Recirculation Actuator
- SP201
- Steering Wheel Control Assembly

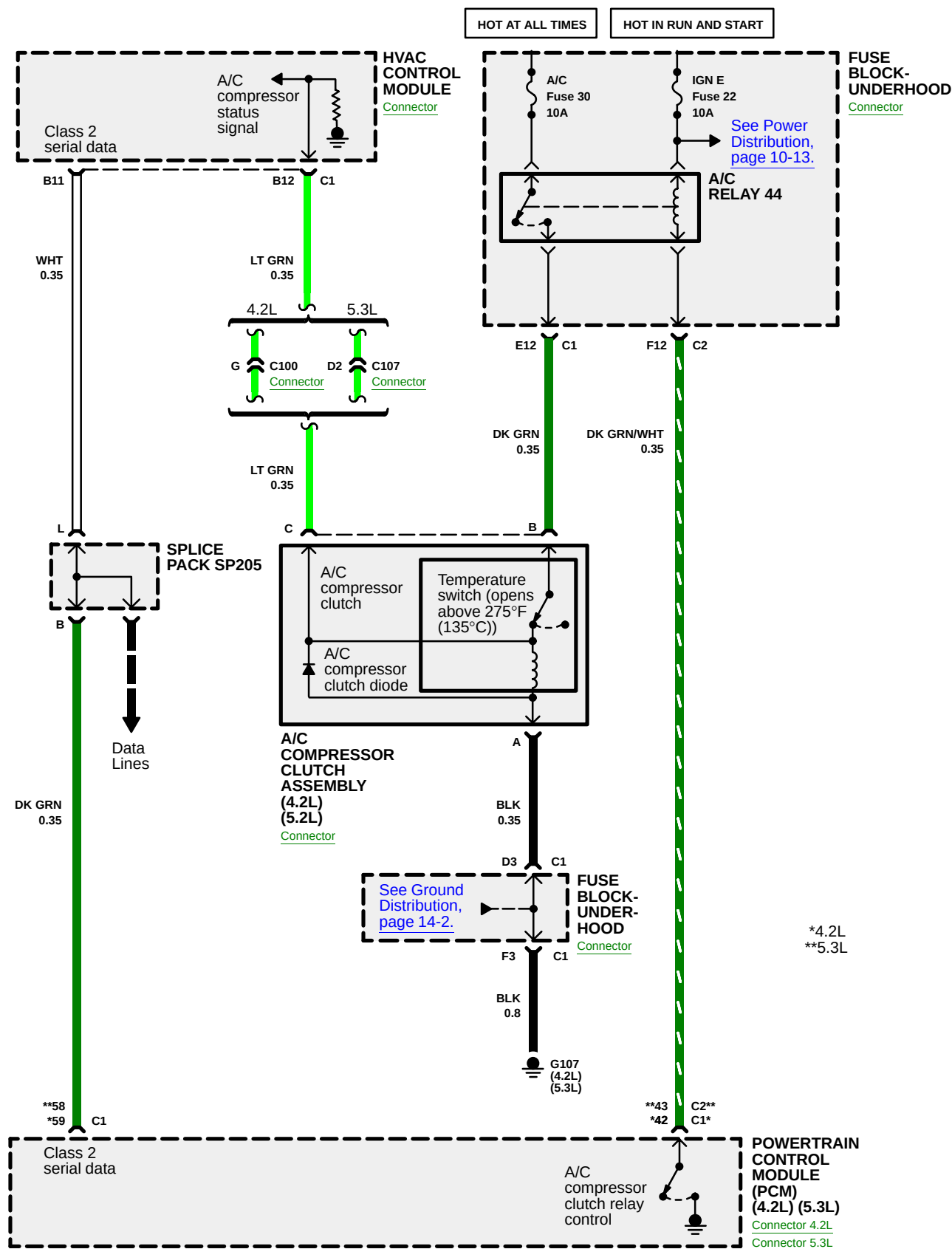
AIR CONDITIONING: AUTOMATIC (Blower Controls)

Circuit Schematic



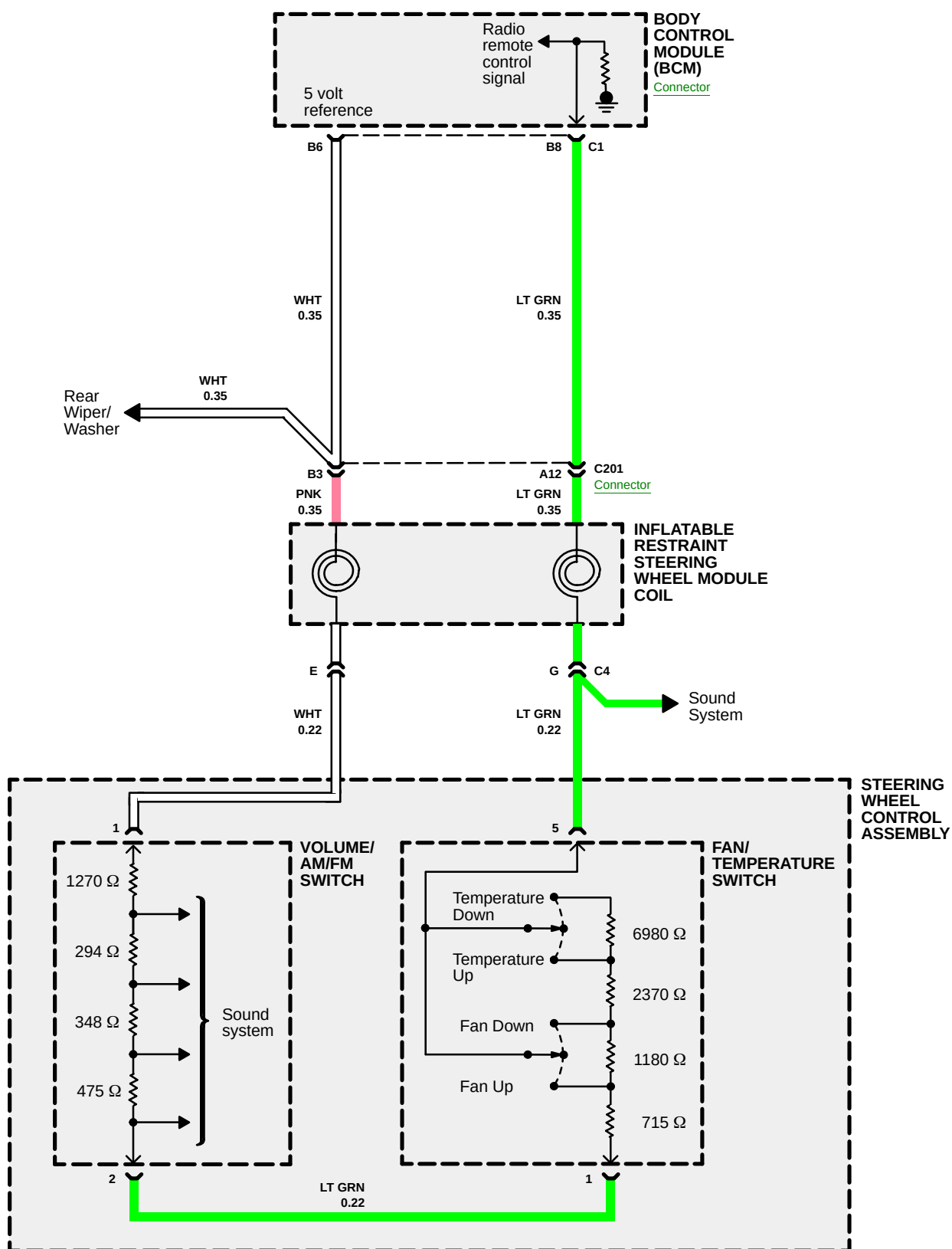
AIR CONDITIONING: AUTOMATIC (Compressor Controls)

Circuit Schematic



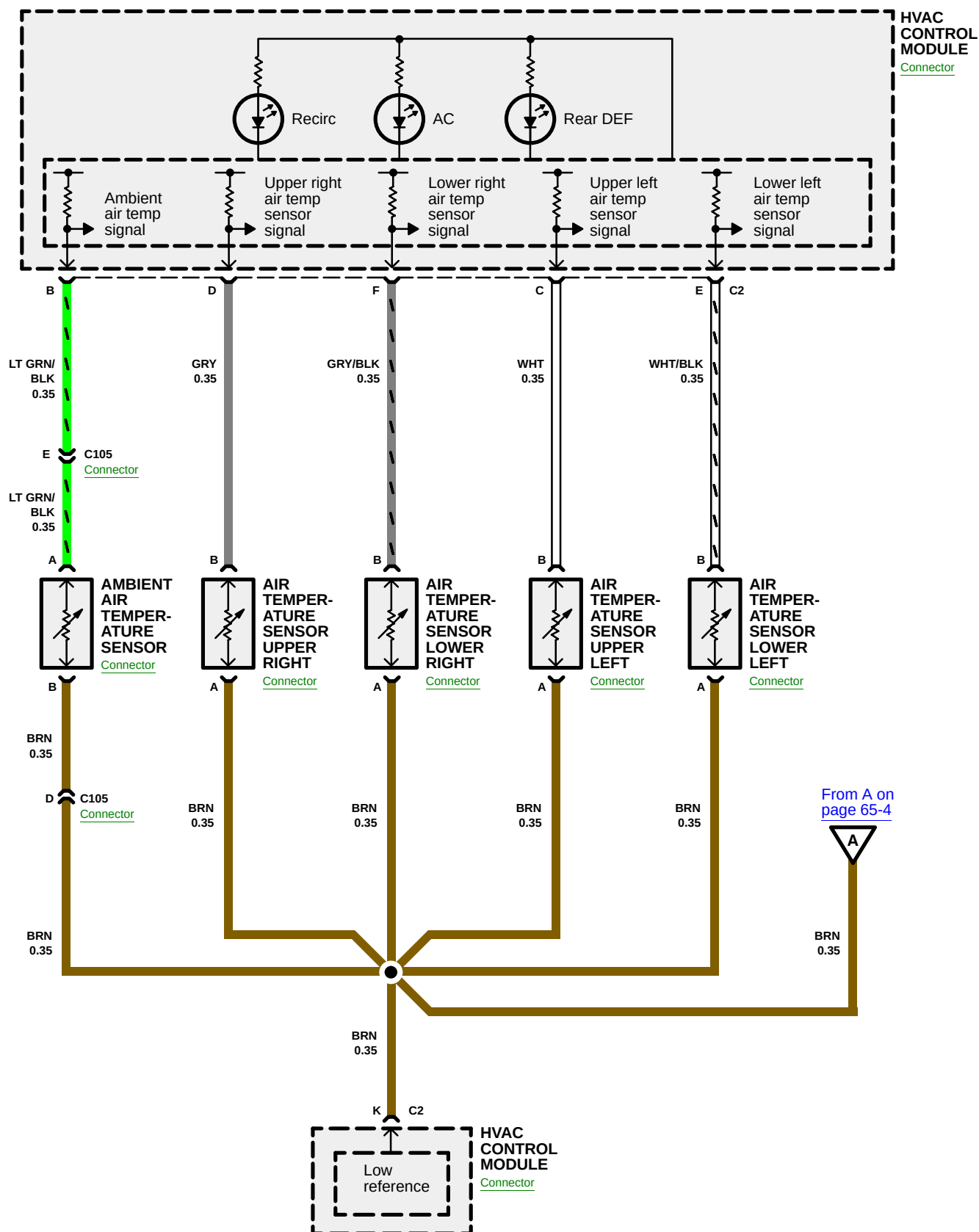
AIR CONDITIONING: AUTOMATIC (Steering Wheel Controls)

Circuit Schematic



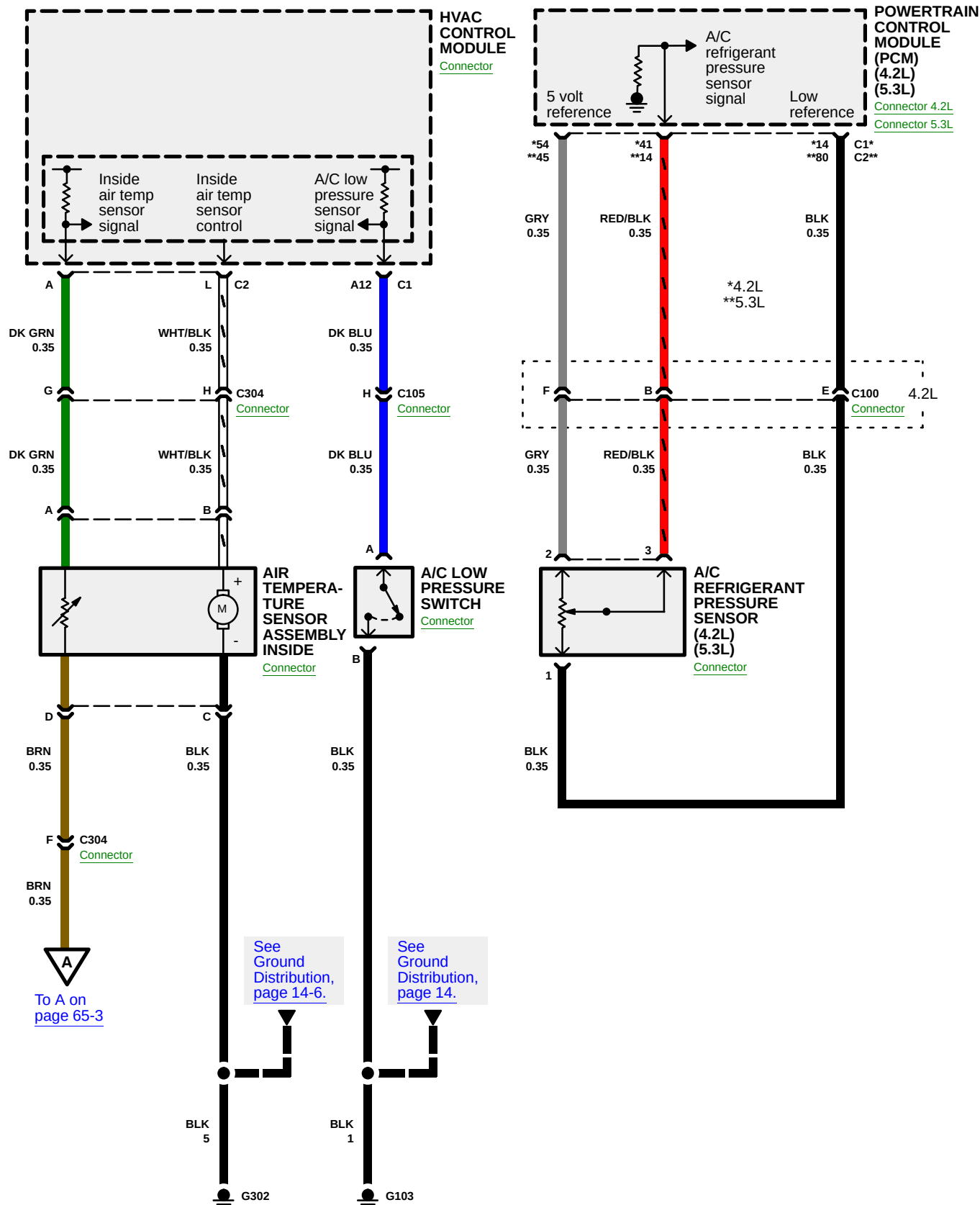
AIR CONDITIONING: AUTOMATIC (Sensors)

Circuit Schematic



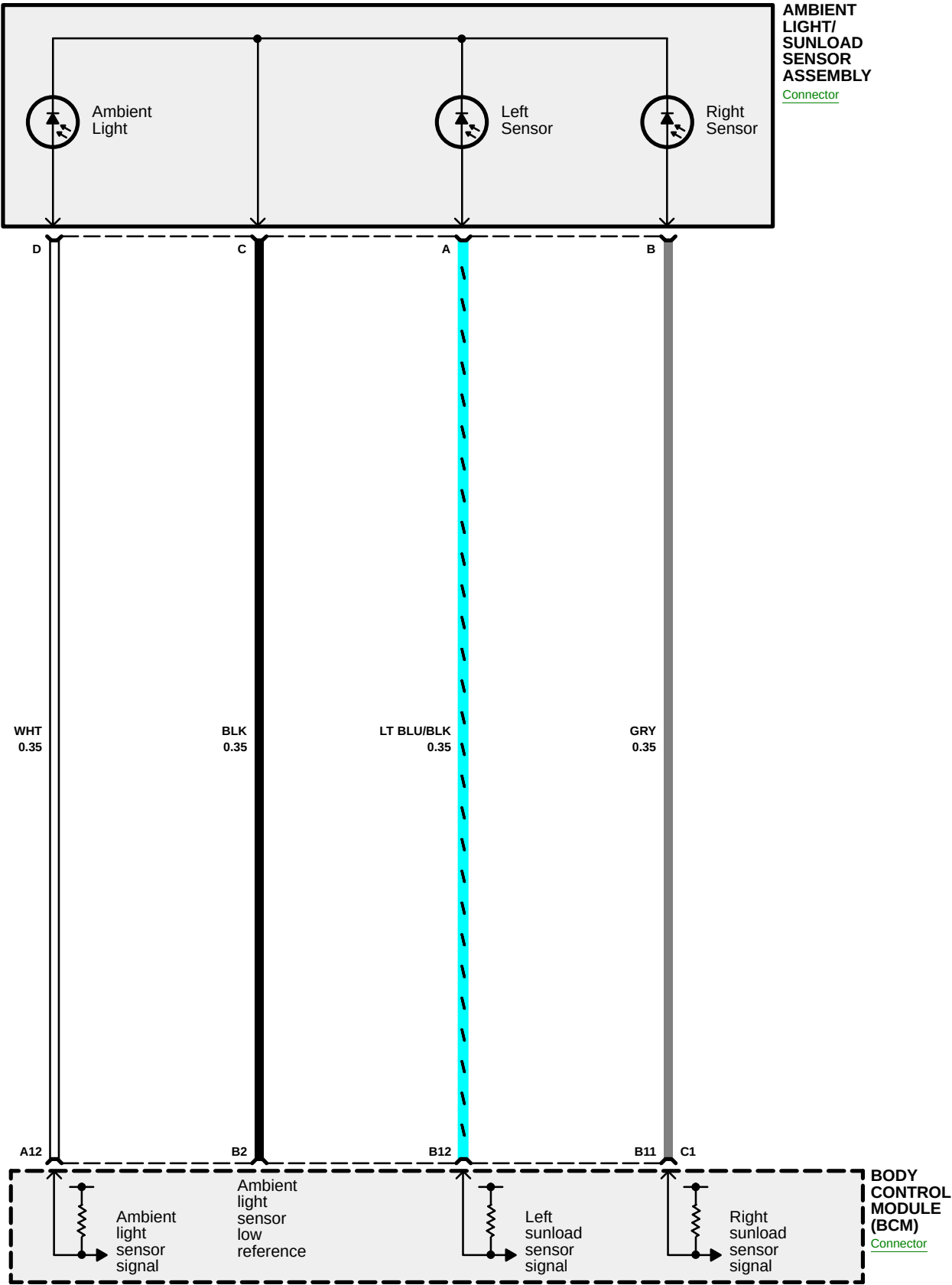
AIR CONDITIONING: AUTOMATIC (Sensors)

Circuit Schematic



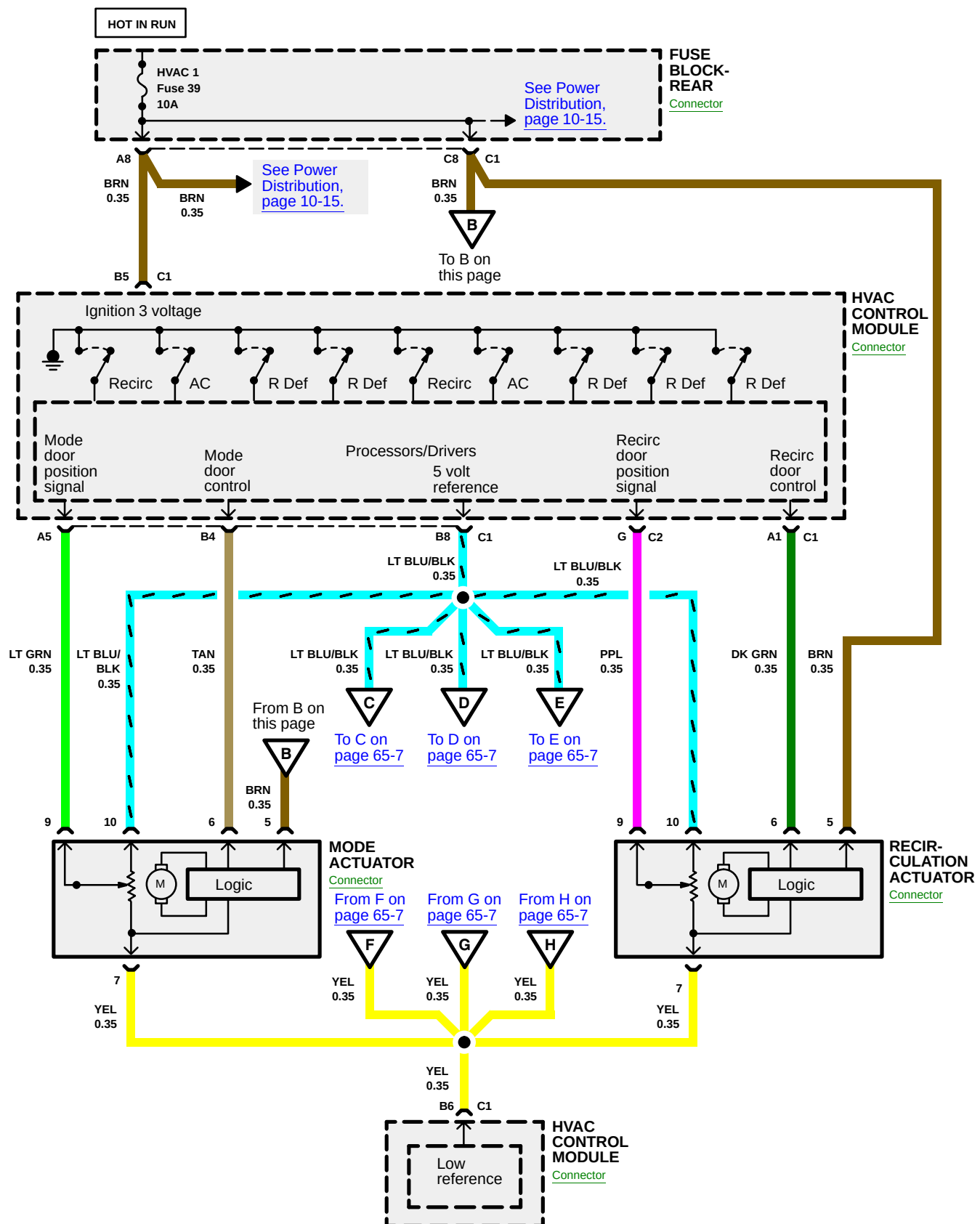
AIR CONDITIONING: AUTOMATIC (Sensors)

Circuit Schematic



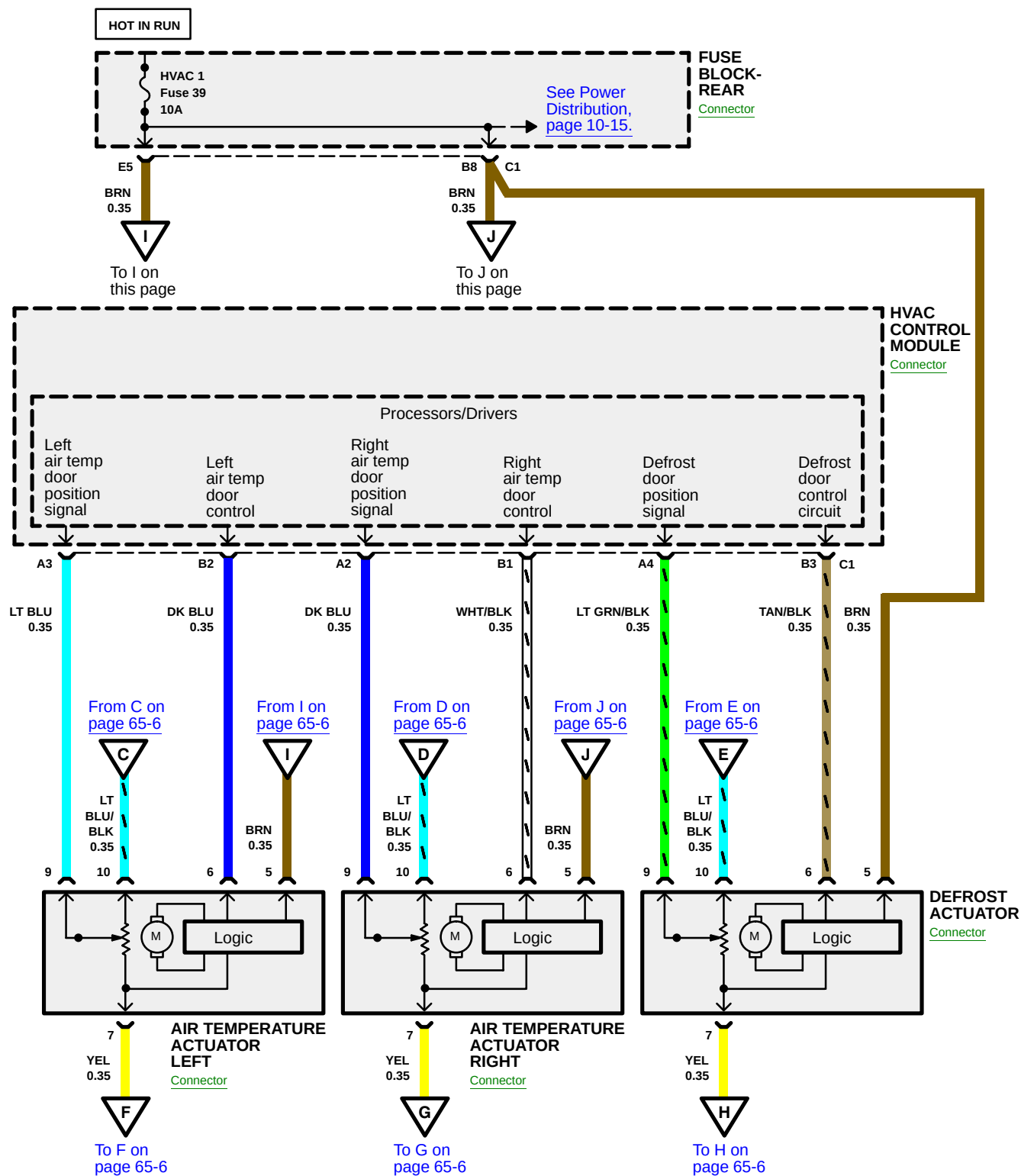
AIR CONDITIONING: AUTOMATIC (Air Delivery Controls)

Circuit Schematic



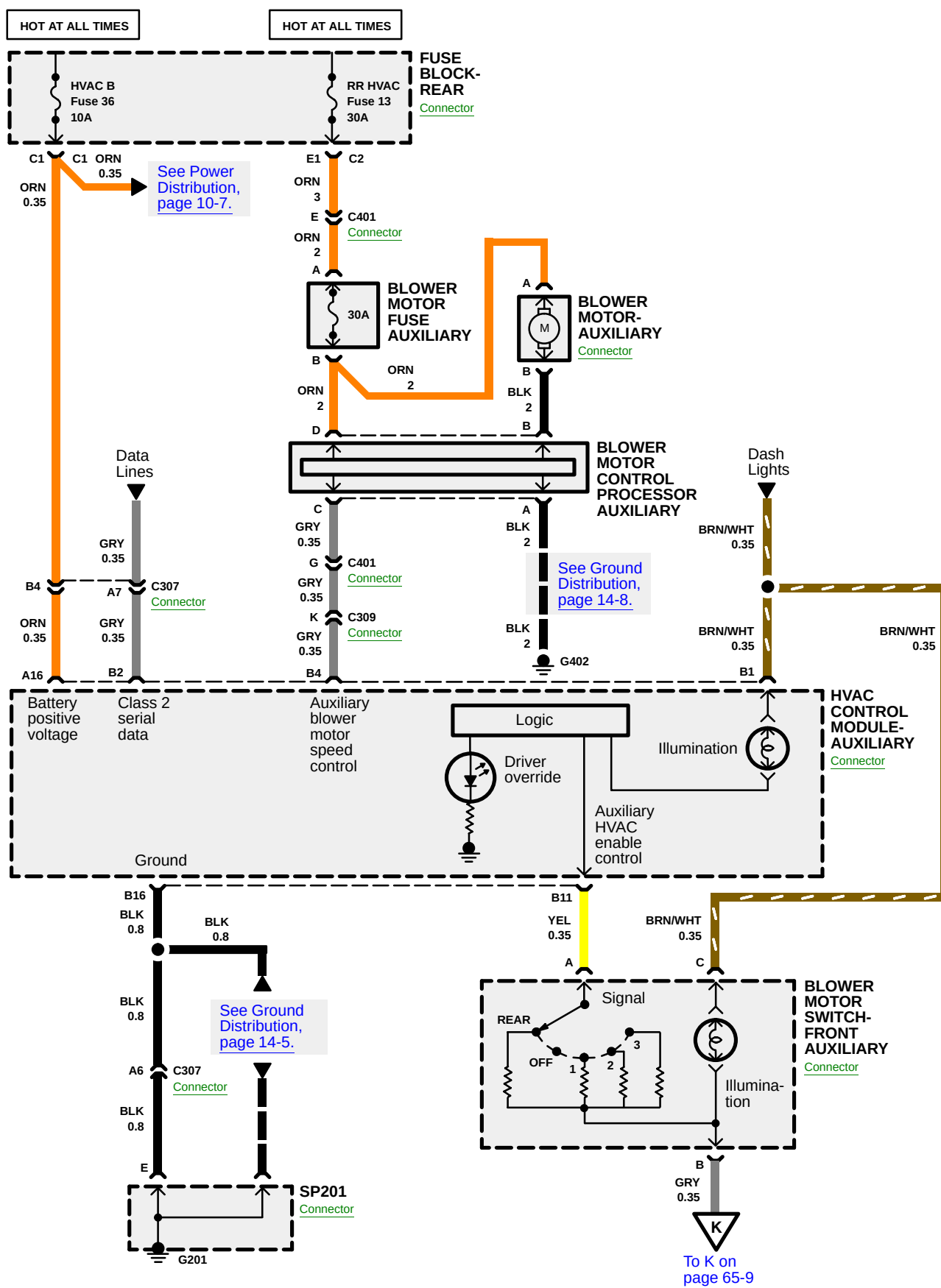
AIR CONDITIONING: AUTOMATIC (Air Delivery Controls)

Circuit Schematic

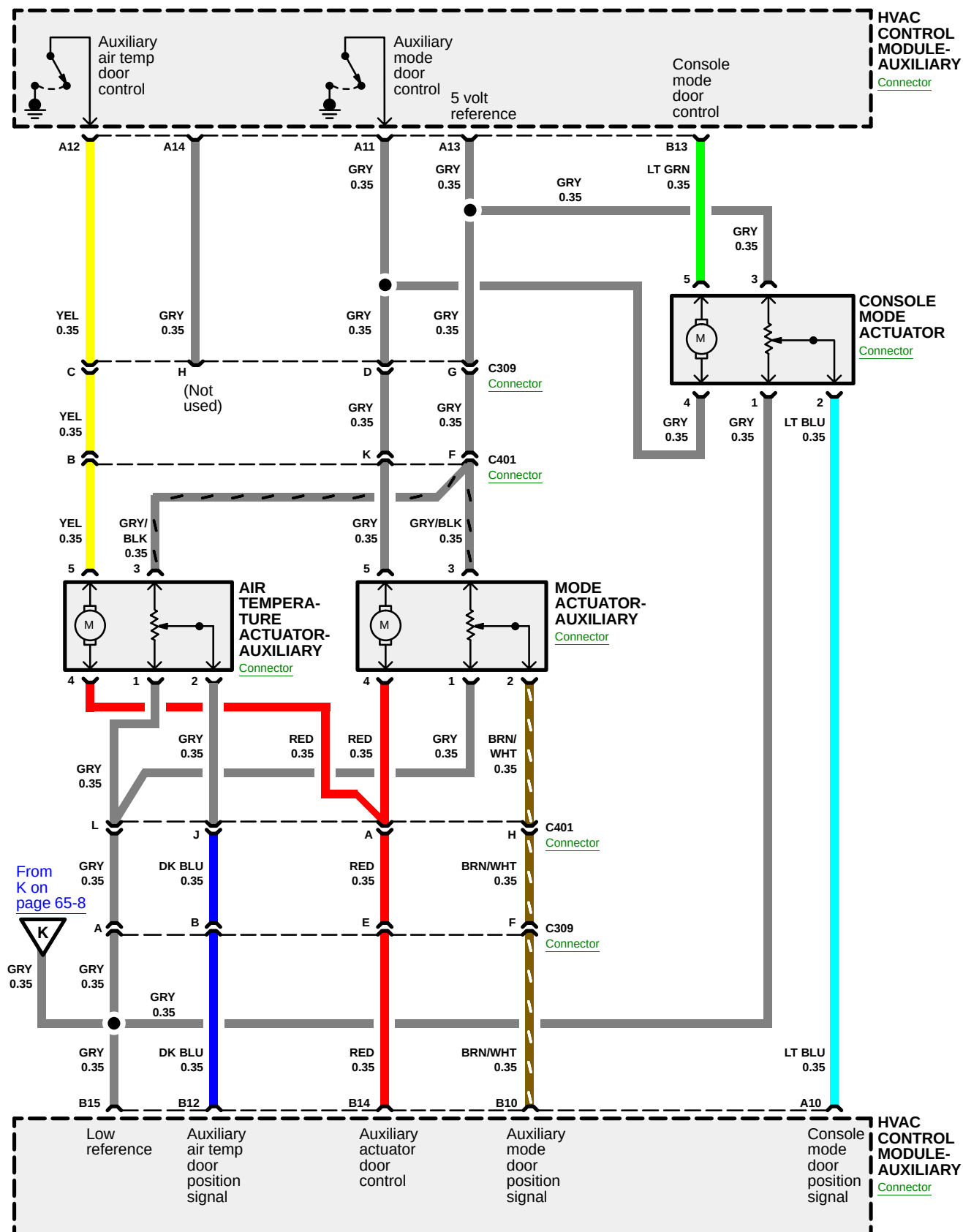


AIR CONDITIONING: AUTOMATIC (Auxiliary Controls)

Circuit Schematic



Circuit Schematic



AIR CONDITIONING: AUTOMATIC

Circuit Operation

The Automatic Heater-A/C Control Unit is powered at all times through fuse 36 HVAC-B and with the engine running through fuse 39 HVAC 1 and is grounded at G102.

Refer to Section 1 of the Workshop Manual for further diagnosis.

AIR CONDITIONING: AUTOMATIC

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
A/C Compressor Clutch	
Assembly (4.2L)	Bottom left side of engine 32
A/C Compressor Clutch	
Assembly (5.3L)	Bottom right side of engine 31
A/C Low Pressure Switch	Right rear of engine compartment 15
A/C Refrigerant Pressure	
Sensor (4.2L)	Bottom right side of engine 32
A/C Refrigerant Pressure	
Sensor (5.3L)	Lower right front of engine 29
A/C Relay 44	In the Underhood Fuse Block 49
Air Temperature Actuator-	
Auxiliary	In the rear of HVAC module, behind right rear interior body panel 111
Air Temperature Actuator-	
Left	Below the I/P, above the accelerator 78
Air Temperature Actuator-	
Right	Behind right of the I/P center support 78
Air Temperature Sensor	
Assembly-Inside	In the left B-pillar 82
Air Temperature Sensor-	
Lower Left	In the lower left air duct assembly 81
Air Temperature Sensor-	
Lower Right	In the lower right air duct assembly 80
Air Temperature Sensor-	
Upper Left	In the upper air duct 76
Air Temperature Sensor-	
Upper Right	In the upper air duct 76
Ambient Air Temperature	
Sensor	Above the left side of the grille 1
Ambient Light/Sunload Sensor	
Assembly	In the center of the I/P upper trim panel 89
Blower Motor Control	
Module	Below right side of the I/P 79
Blower Motor Control	
Processor-Auxiliary	In the Rear HVAC Module, behind the right rear interior panel
Blower Motor Switch-Front	
Auxiliary	In center console 72
Blower Motor-Auxiliary	Behind the interior right rear trim panel 111
Body Control Module	
(BCM)	On Rear Fuse Block, under left rear seat 53
Console Mode Actuator	In the lower bottom of the lower console 84
Coolant Bypass Valve	Right rear of engine compartment 10
Defrost Actuator	On the cowl side of the upper I/P carrier 83
Fuse Block-Rear	Under the left rear seat 52
Fuse Block-Underhood	Left side of engine compartment 3
HVAC Control Module	In the IP center trim panel, beneath the radio 75
HVAC Control Module-	
Auxiliary	At rear of lower console 85
Inflatable Restraint Steering	
Wheel Module Coil	In center hub of steering wheel

AIR CONDITIONING: AUTOMATIC

Component Location Index

(Refer to Section 201 for photographs.)

Component	Photo No.
Mode Actuator	Behind I/P, left of the I/P center support 83
Powertrain Control Module (PCM) (4.2L)	Left front of engine 5
Powertrain Control Module (PCM) (5.3L)	Left front of engine compartment 25
Recirculation Actuator	Above the blower motor, on the right side of the I/P carrier
SP201	Near right front of lower console 80
Steering Wheel Control Assembly	In the steering wheel hub 66
Connector	
C100 (4.2L) (10-BLK)	Left front of engine 5
C105 (10-BLK)	Left side of engine compartment 4
C107 (5.3L) (38-BLK)	Left rear of engine compartment 18
C201 (17-BLK), (18-BLK), and (13-GRY)	At base of steering column 120
C304 (16-BLK)	Under carpet, rear floor area 103
C307 (18-MD GRY)	Beneath rear of lower console 86
C309 (10-BLK)	Under rear of lower console 86
C401 (12-BLK)	Behind right rear body side panel 111
Ground	
G102	Left side of engine compartment 4
G103	Right rear of engine compartment 15
G107 (4.2L)	Lower left side of engine 37
G107 (5.3L)	Lower left side of engine 38
G201	Near right front of lower console 80
G302	On the lower left B-pillar 105