

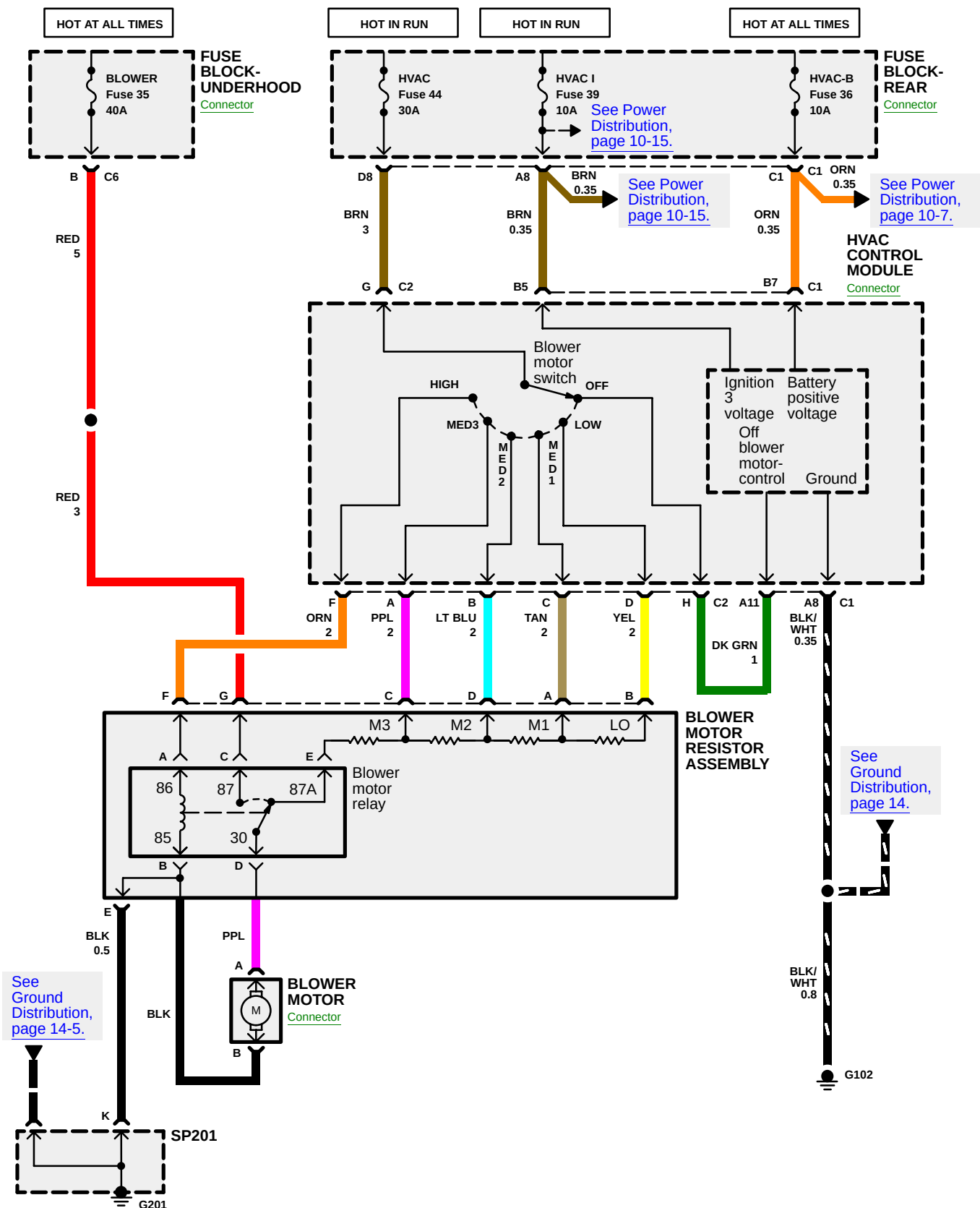
AIR CONDITIONING: MANUAL

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
- Blower Motor
- Blower Motor Control Processor-Auxiliary
- Blower Motor Resistor Assembly
- Blower Motor Switch-Front Auxiliary
- Blower Motor-Auxiliary
- Console Mode Actuator
- Coolant Bypass Valve
- Defrost Actuator
- Fuse Block-Rear
- Fuse Block-Underhood
- HVAC Control Module
- HVAC Control Module-Auxiliary
- Mode Actuator
- Mode Actuator-Auxiliary
- Powertrain Control Module (PCM) (4.2L)
- Powertrain Control Module (PCM) (5.3L)
- Recirculation Actuator
- SP201

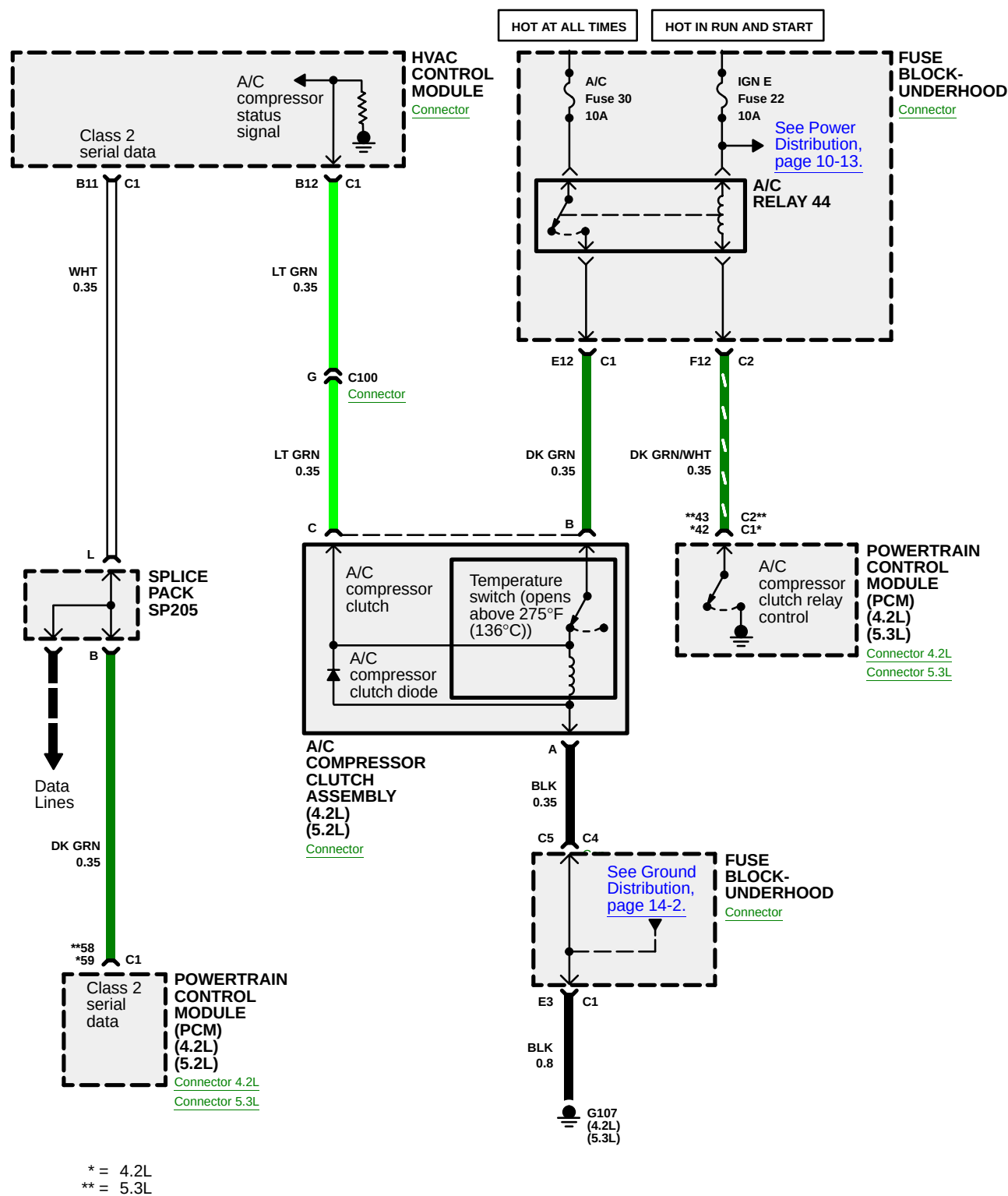
AIR CONDITIONING: MANUAL (Blower Controls)

Circuit Schematic



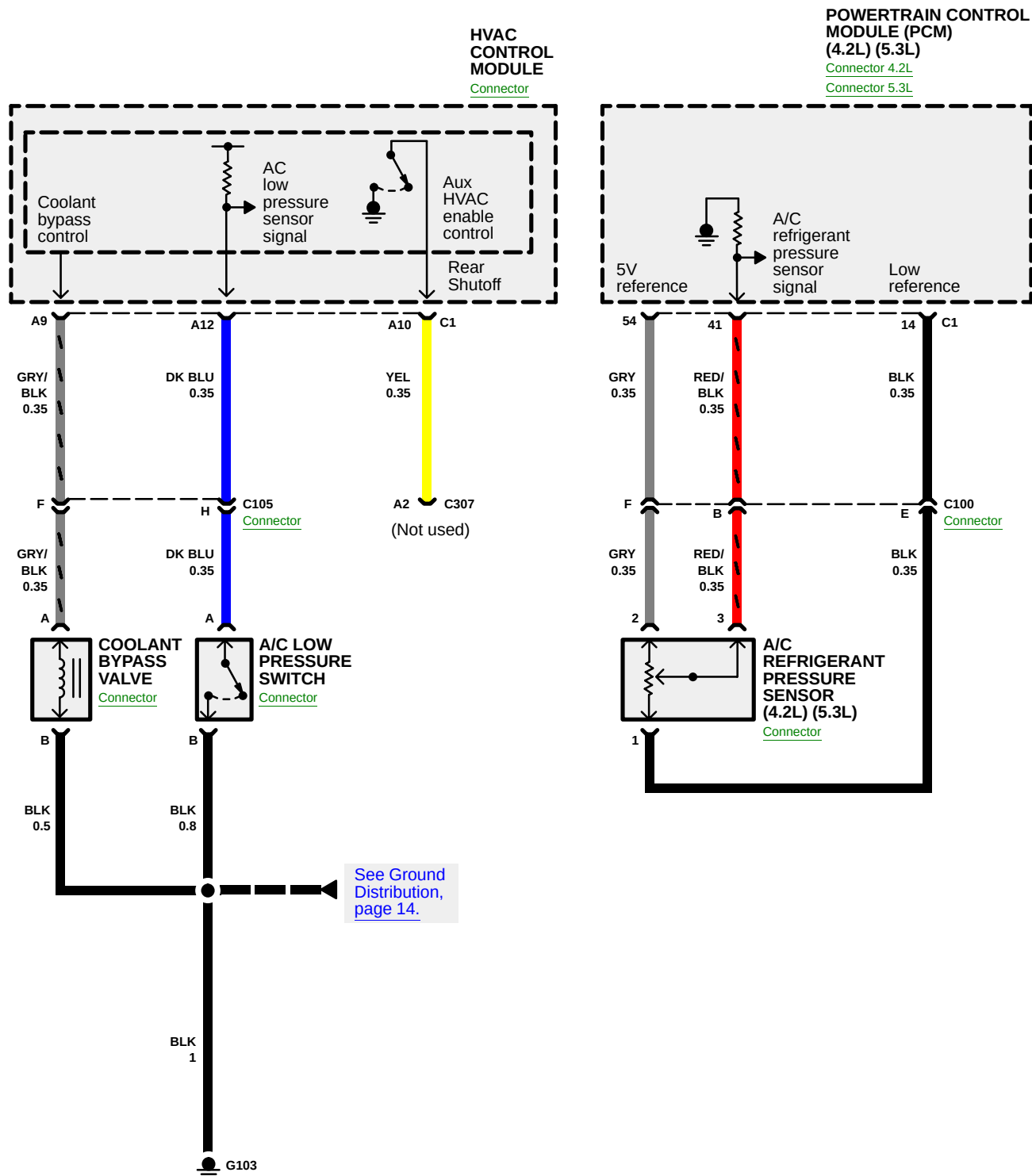
AIR CONDITIONING: MANUAL (Compressor Controls)

Circuit Schematic



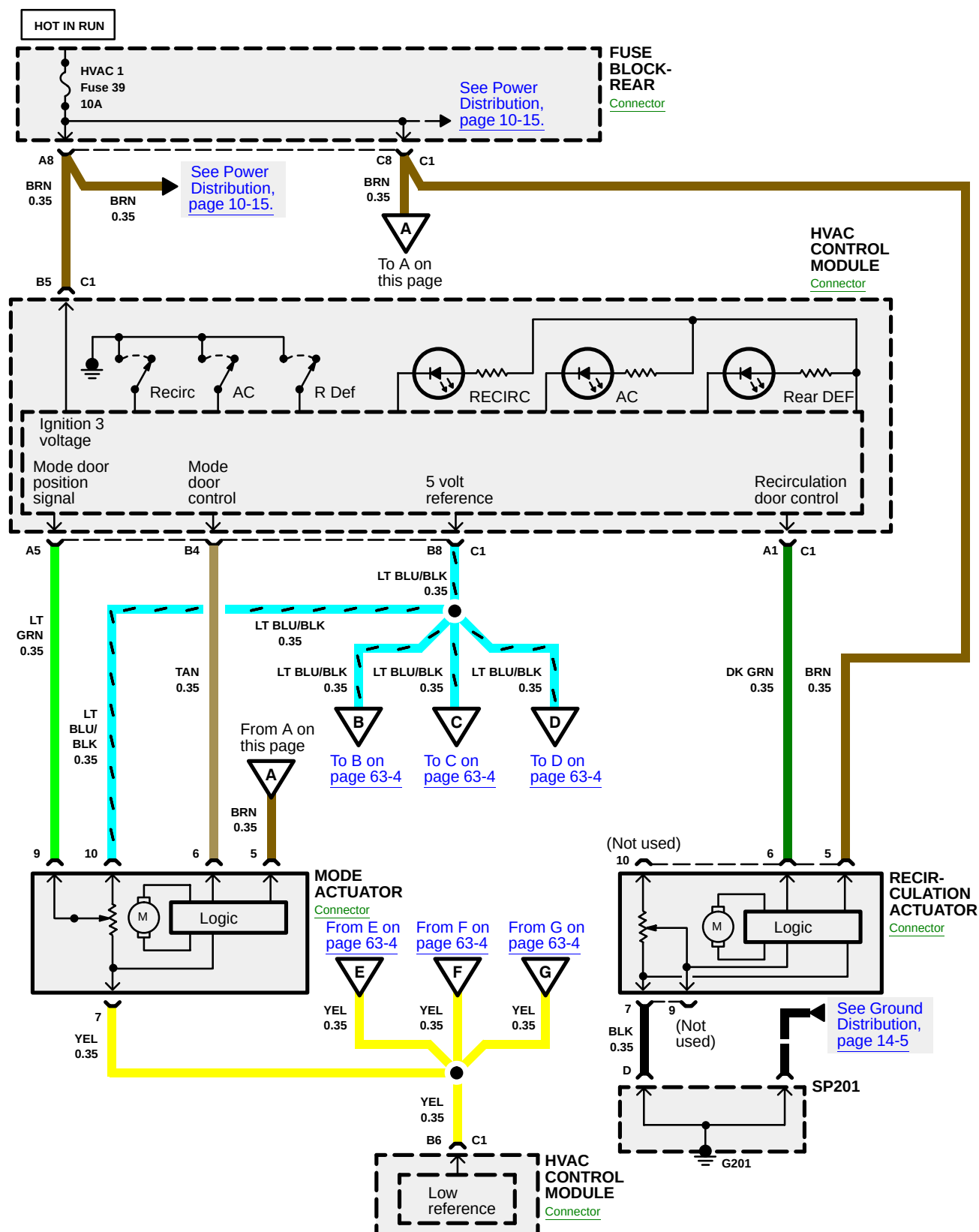
AIR CONDITIONING: MANUAL (Sensors)

Circuit Schematic



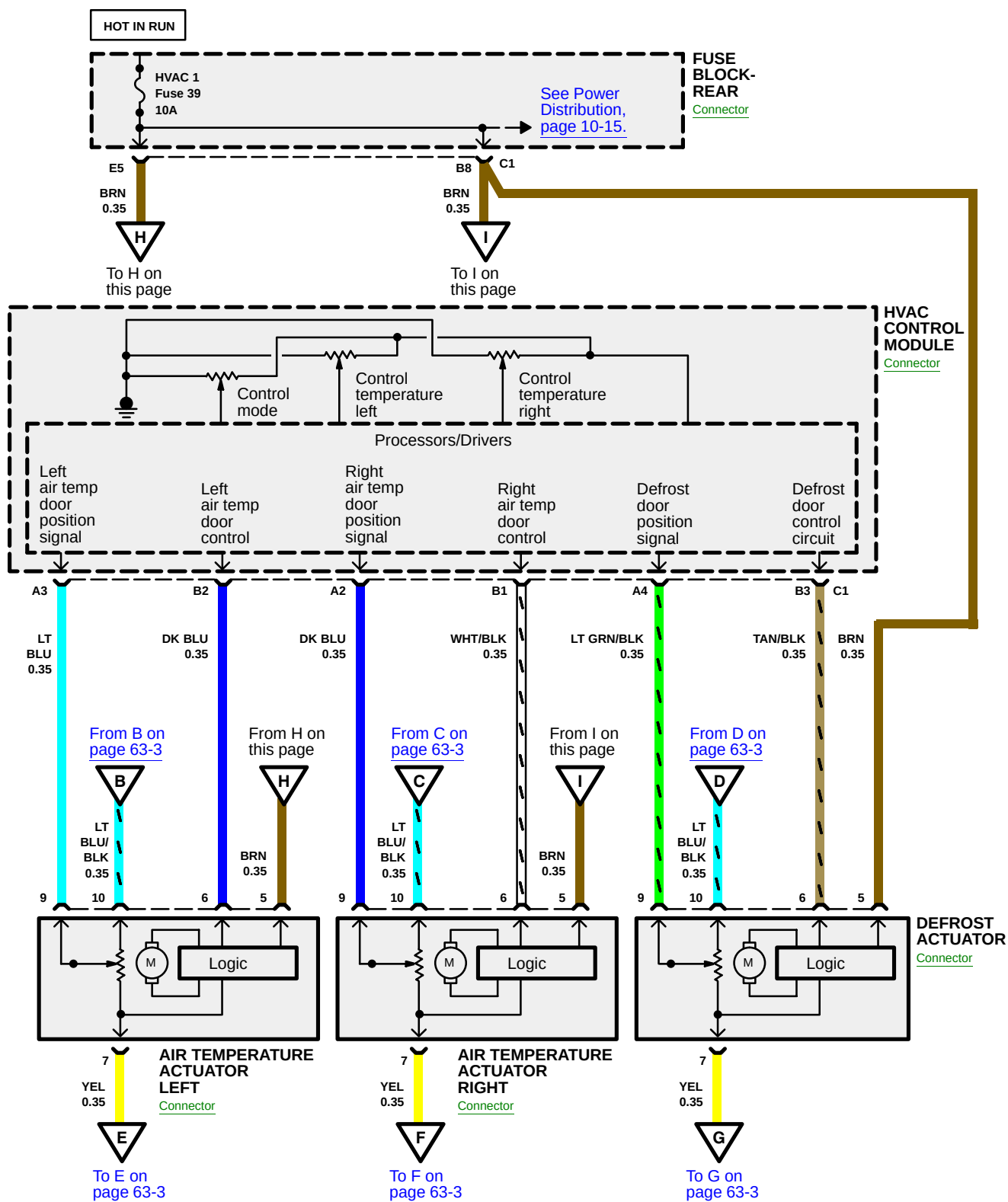
AIR CONDITIONING: MANUAL (Air Delivery Controls)

Circuit Schematic



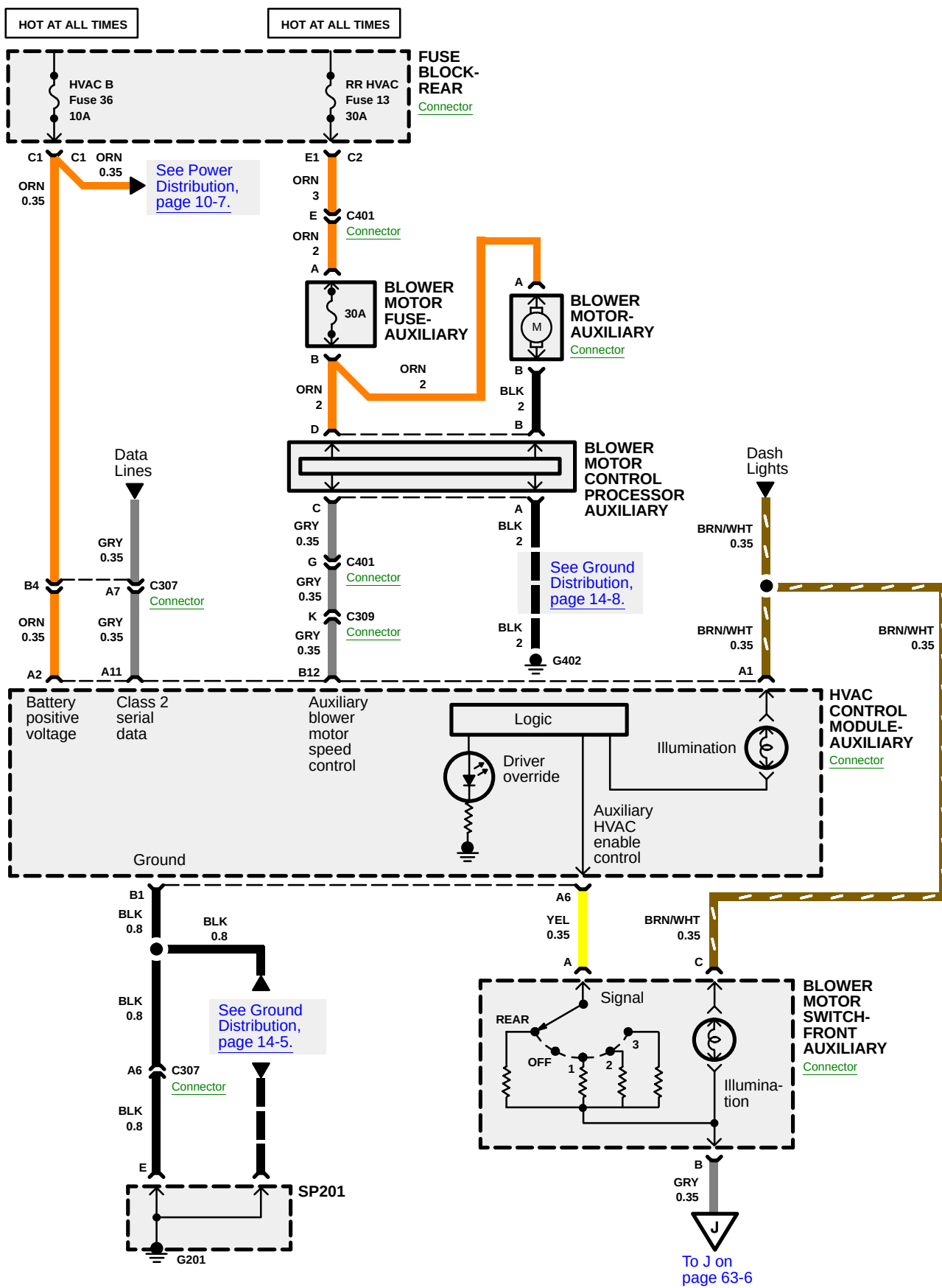
AIR CONDITIONING: MANUAL (Air Delivery Controls)

Circuit Schematic



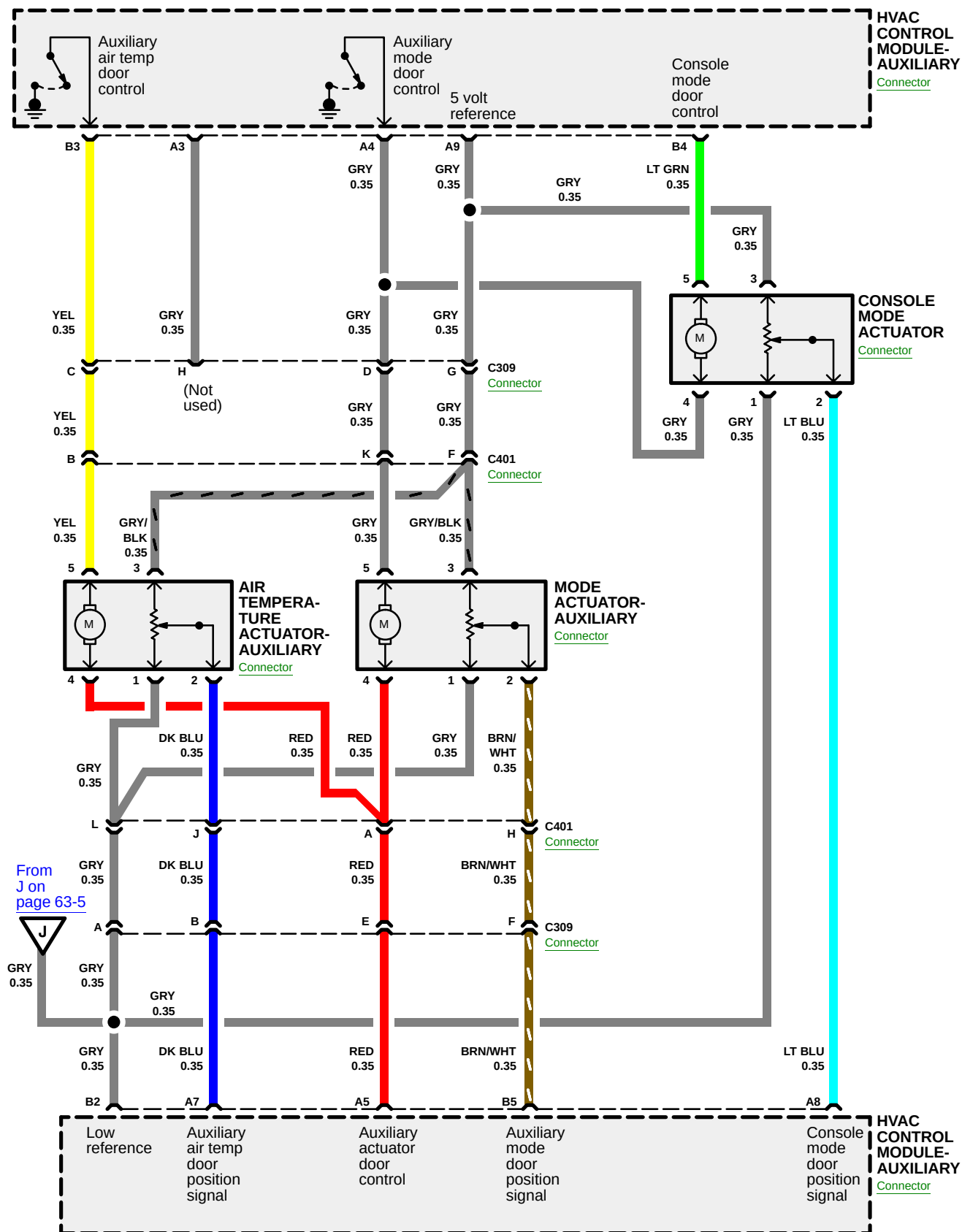
AIR CONDITIONING: MANUAL (Auxiliary Controls)

Circuit Schematic



AIR CONDITIONING: MANUAL (Auxiliary Controls)

Circuit Schematic



AIR CONDITIONING: MANUAL

Circuit Operation

The Manual Heater-A/C Control Unit is powered at all times through fuse 36 HVAC-B and with the engine running through fuse 44 HVAC and fuse 39 HVAC 1, and is grounded at G102.

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

AIR CONDITIONING: MANUAL

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
Blower Motor	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 Resistor	
Assembly	On the bottom of the blower assembly
Blower Motor Switch-Front	
Auxiliary	In center console 72
Blower Motor-Auxiliary	Behind the interior right rear trim panel 111
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
Mode Actuator	Behind I/P, left of the I/P center support 83
Mode Actuator-Auxiliary	Behind the right side panel of the rear compartment 111
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
Connector	
C100 (4.2L) (10-BLK)	Left front of engine 5
C105 (10-BLK)	Left side of engine compartment 4
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

AIR CONDITIONING: MANUAL

Component Location Index

(Refer to Section 201 for photographs.)

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