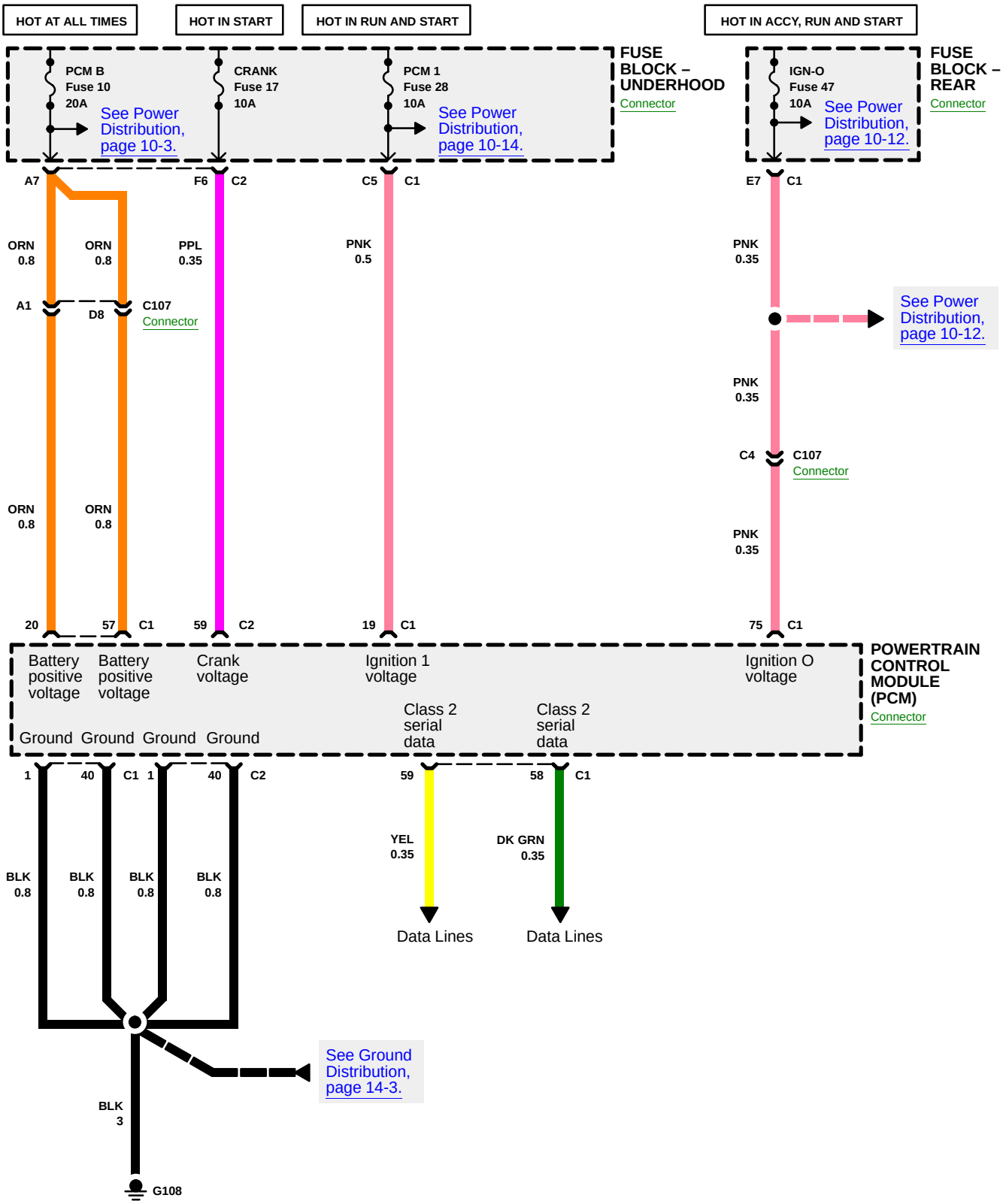
ENGINE CONTROLS: 5.3L

Component Index

Accelerator Pedal Position (APP) Sensor (5.3L)
Camshaft Position (CMP) Sensor (5.3L)
Crankshaft Position (CKP) Sensor (5.3L)
Electronic Brake Control Module (EBCM)
Engine Coolant Temperature (ECT) Sensor (5.3L)
Evaporative Emission (EVAP) Canister Purge Solenoid (5.3L)
Evaporative Emission (EVAP) Canister Vent Solenoid
Fuel Injector 1 (5.3L)
Fuel Injector 2 (5.3L)
Fuel Injector 3 (5.3L)
Fuel Injector 4 (5.3L)
Fuel Injector 5 (5.3L)
Fuel Injector 6 (5.3L)
Fuel Injector 7 (5.3L)
Fuel Injector 8 (5.3L)
Fuel Pump and Sender Assembly
Fuel Tank Pressure (FTP) Sensor
Fuse Block-Rear
Fuse Block-Underhood
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 1 (5.3L)
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 2 (5.3L)
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 1 (5.3L)
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 2 (5.3L)
Instrument Panel Cluster (IPC)
Knock Sensor (KS) 1 (Left) (5.3L)
Knock Sensor (KS) 2 (Right) (5.3L)
Manifold Absolute Pressure (MAP) Sensor (5.3L)
Mass Air Flow (MAF) Sensor/Intake Air Temperature (IAT) (5.3L)
Powertrain Control Module (PCM) (5.3L)
Stop Lamp Switch
Throttle Actuator Control (TAC) Module (5.3L)
Throttle Body (5.3L)
Vehicle Speed Sensor (VSS) (2WD)
Vehicle Speed Sensor (VSS) (4WD)

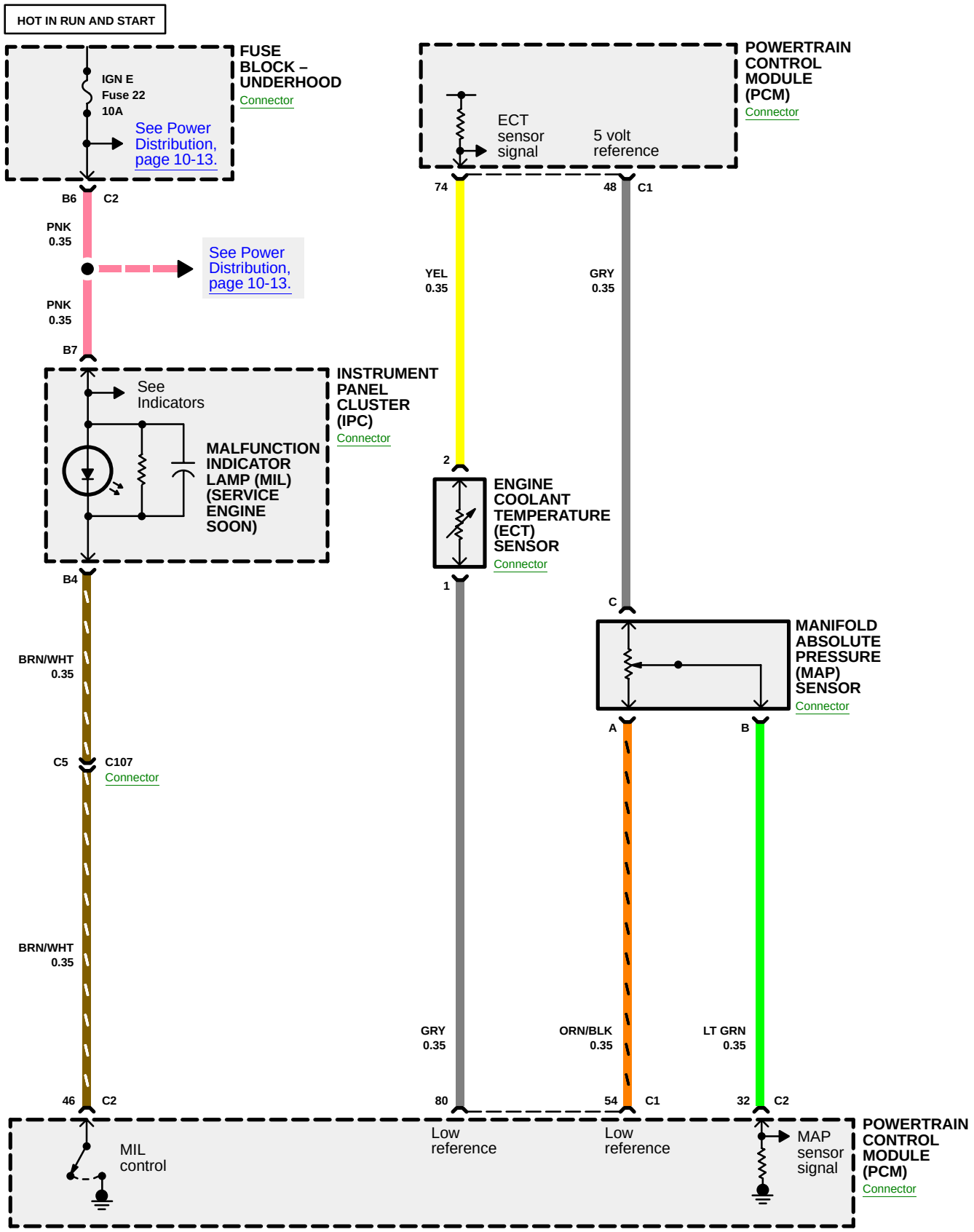
ENGINE CONTROLS: 5.3L

Circuit Schematic



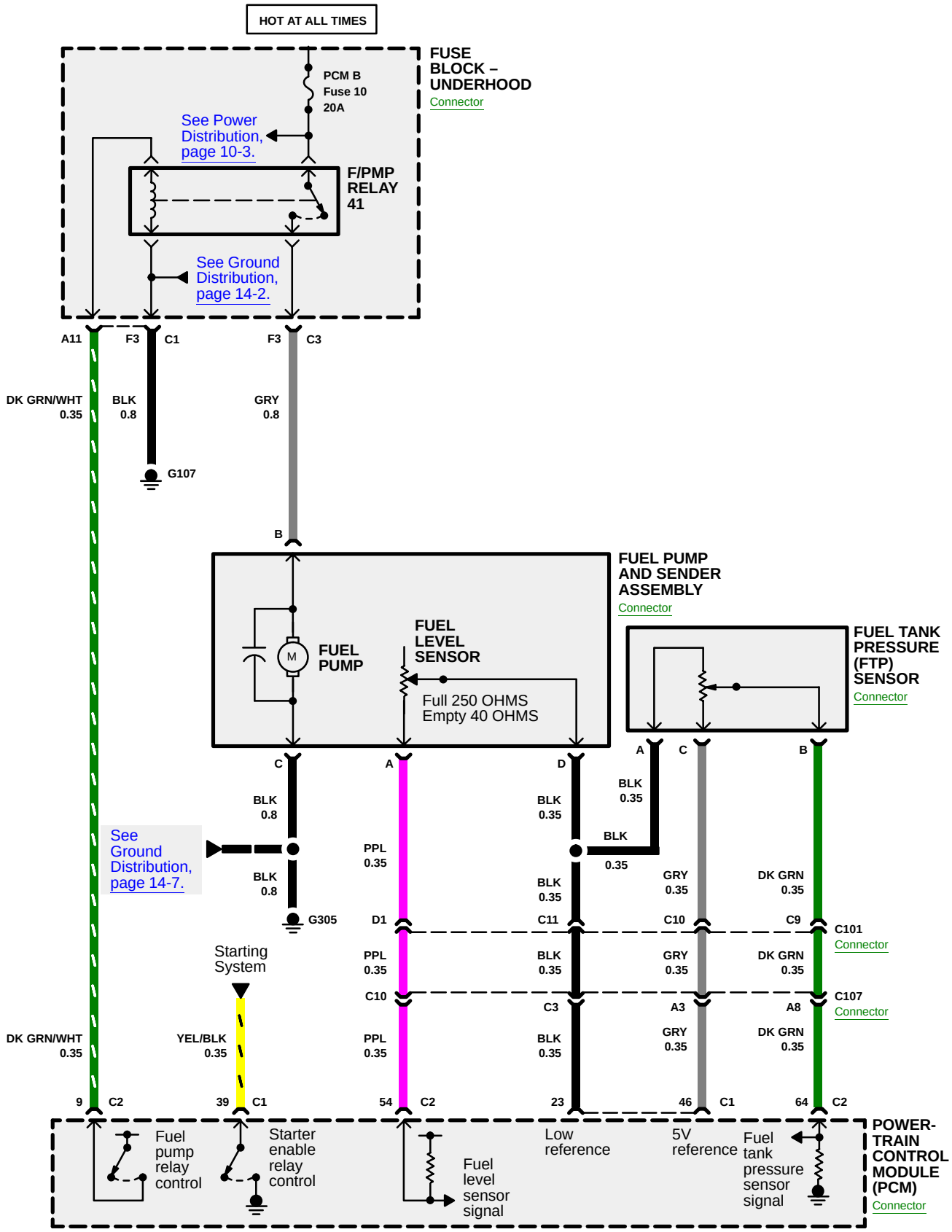
ENGINE CONTROLS: 5.3L

Circuit Schematic



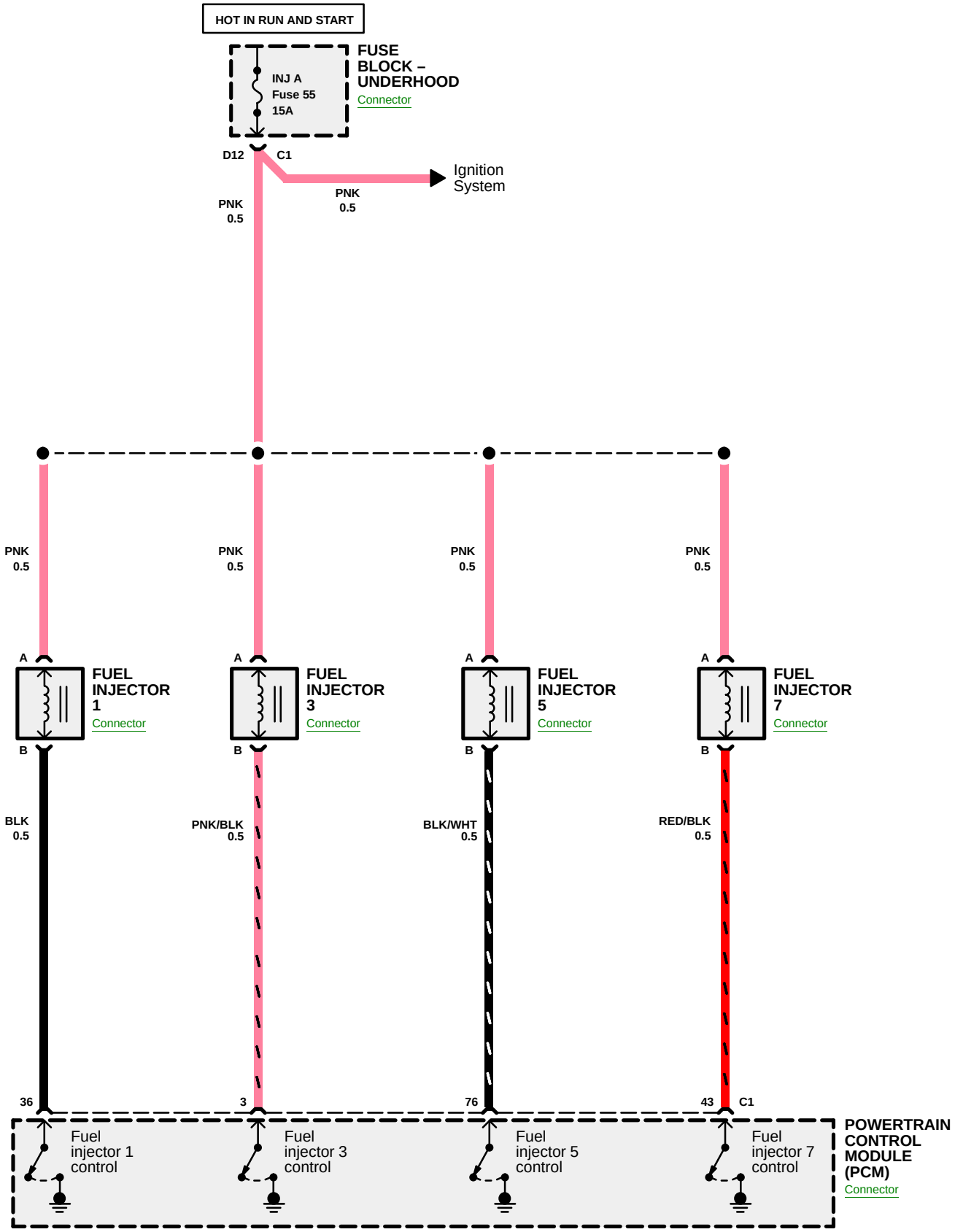
ENGINE CONTROLS: 5.3L

Circuit Schematic



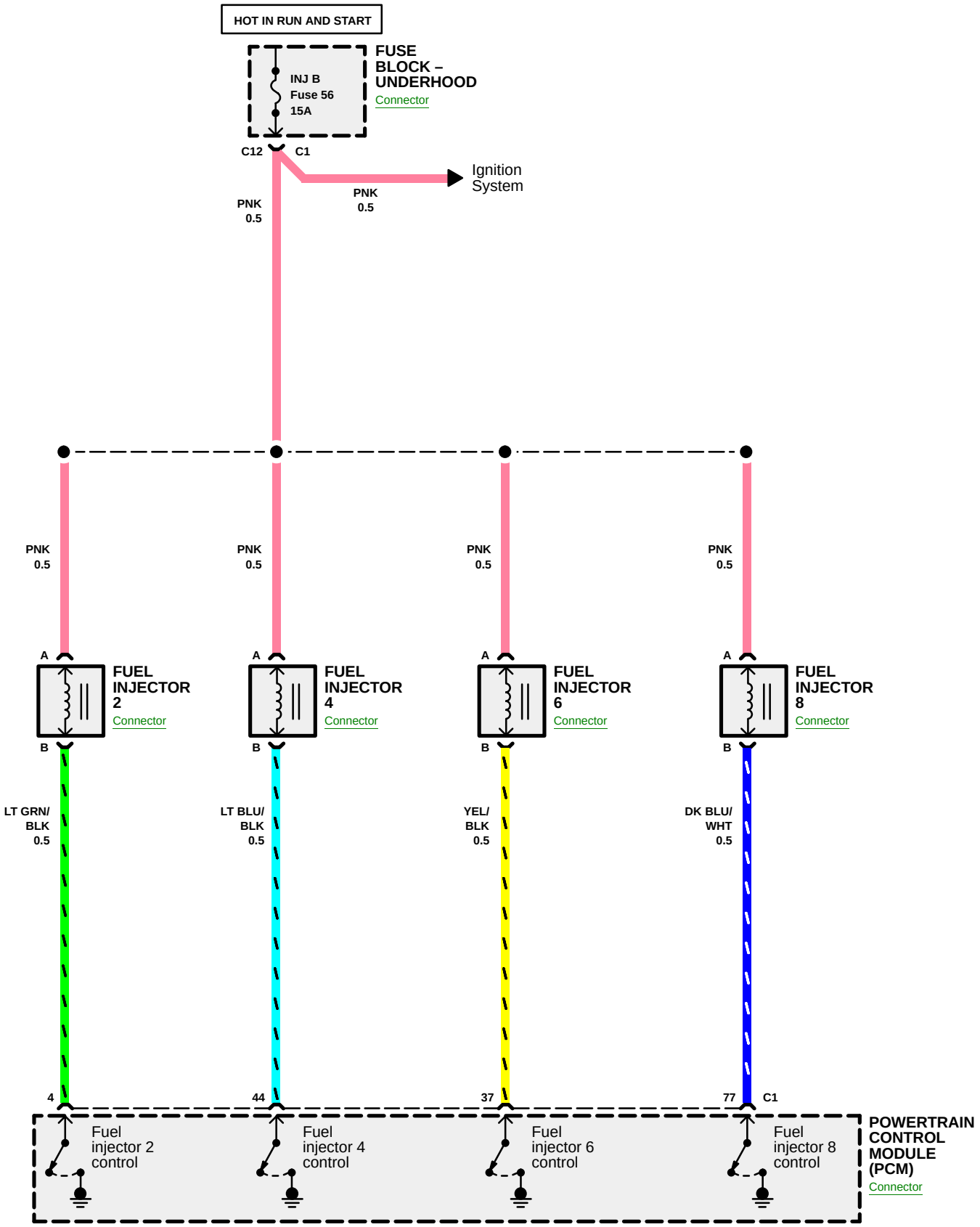
ENGINE CONTROLS: 5.3L

Circuit Schematic



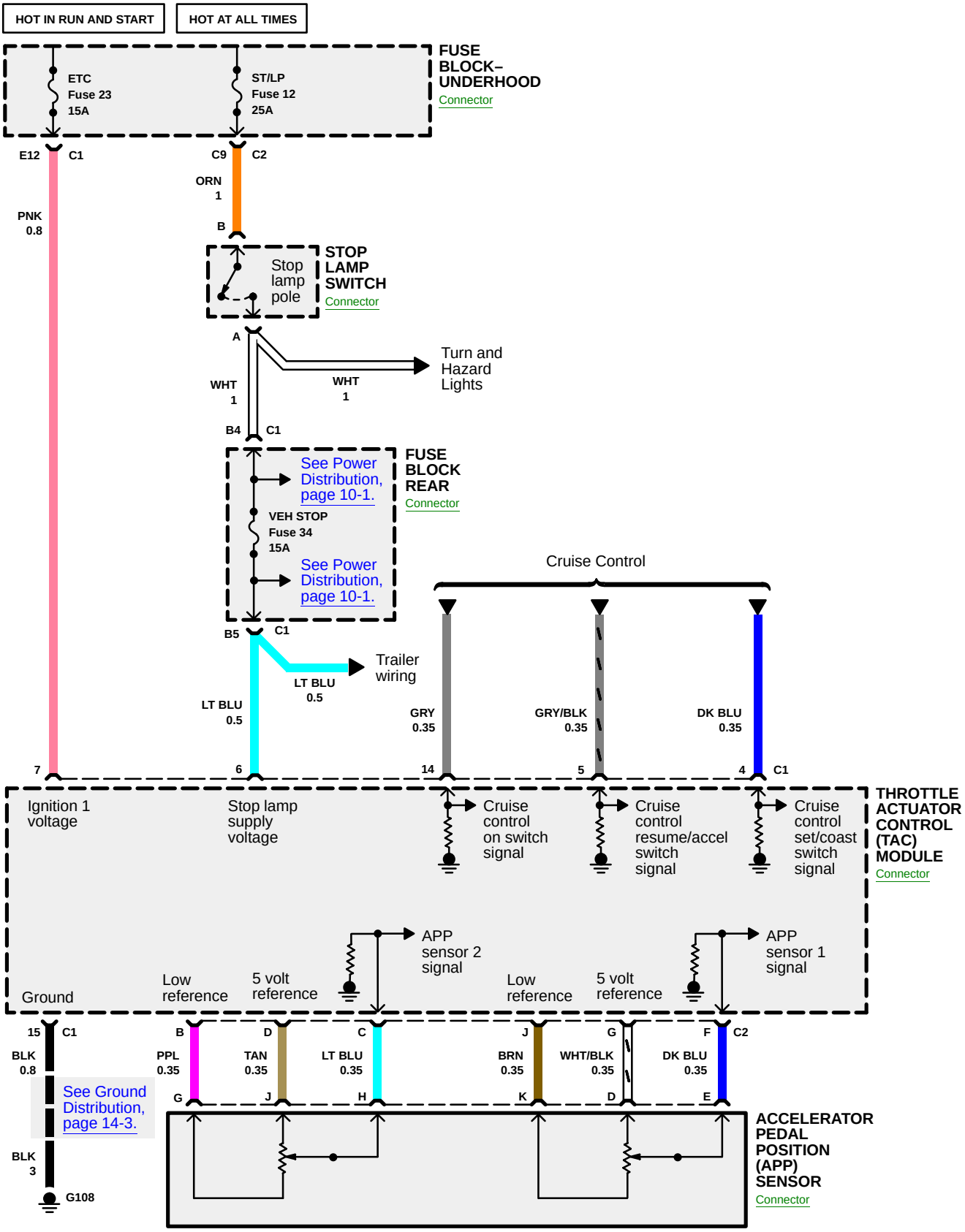
ENGINE CONTROLS: 5.3L

Circuit Schematic



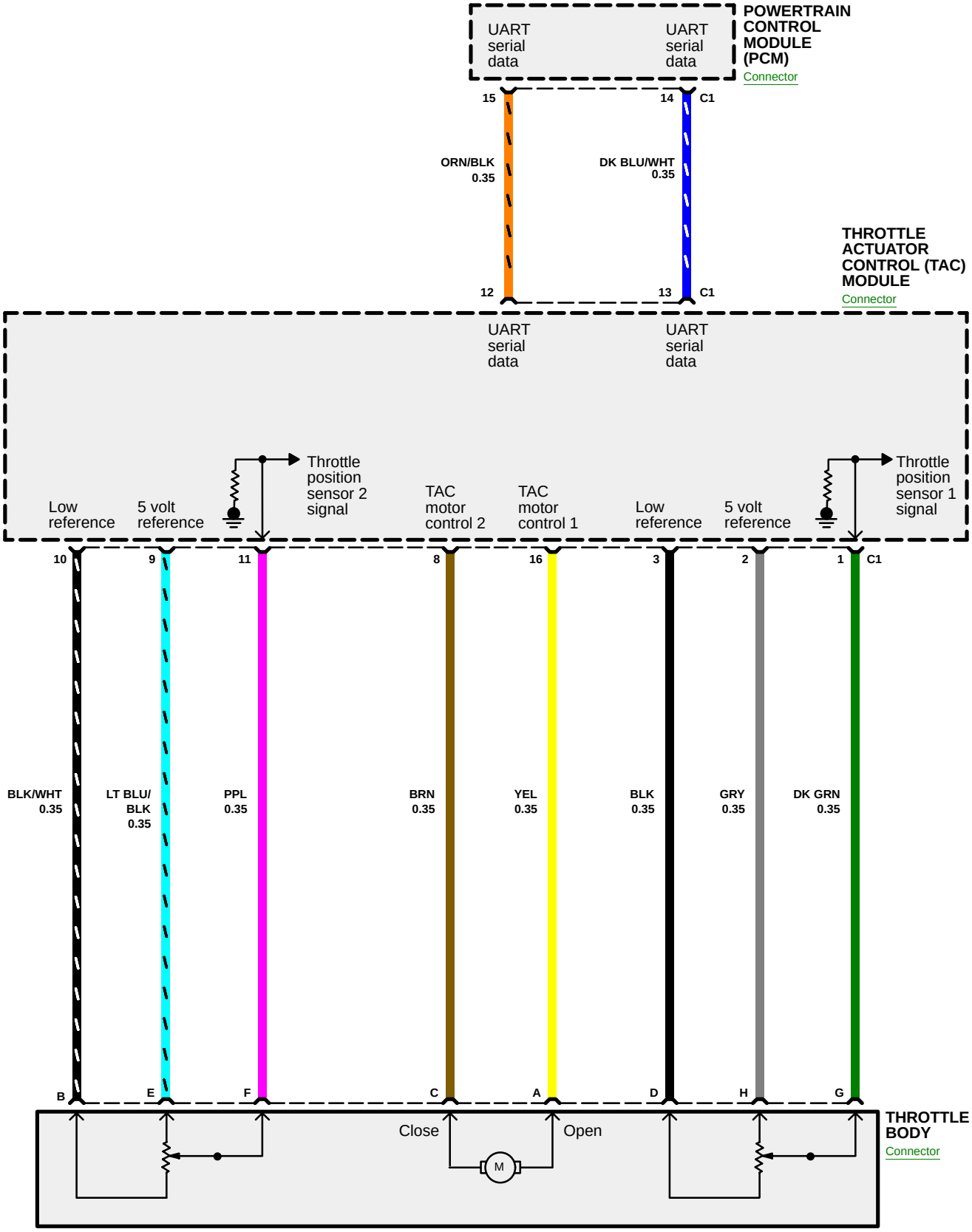
ENGINE CONTROLS: 5.3L

Circuit Schematic



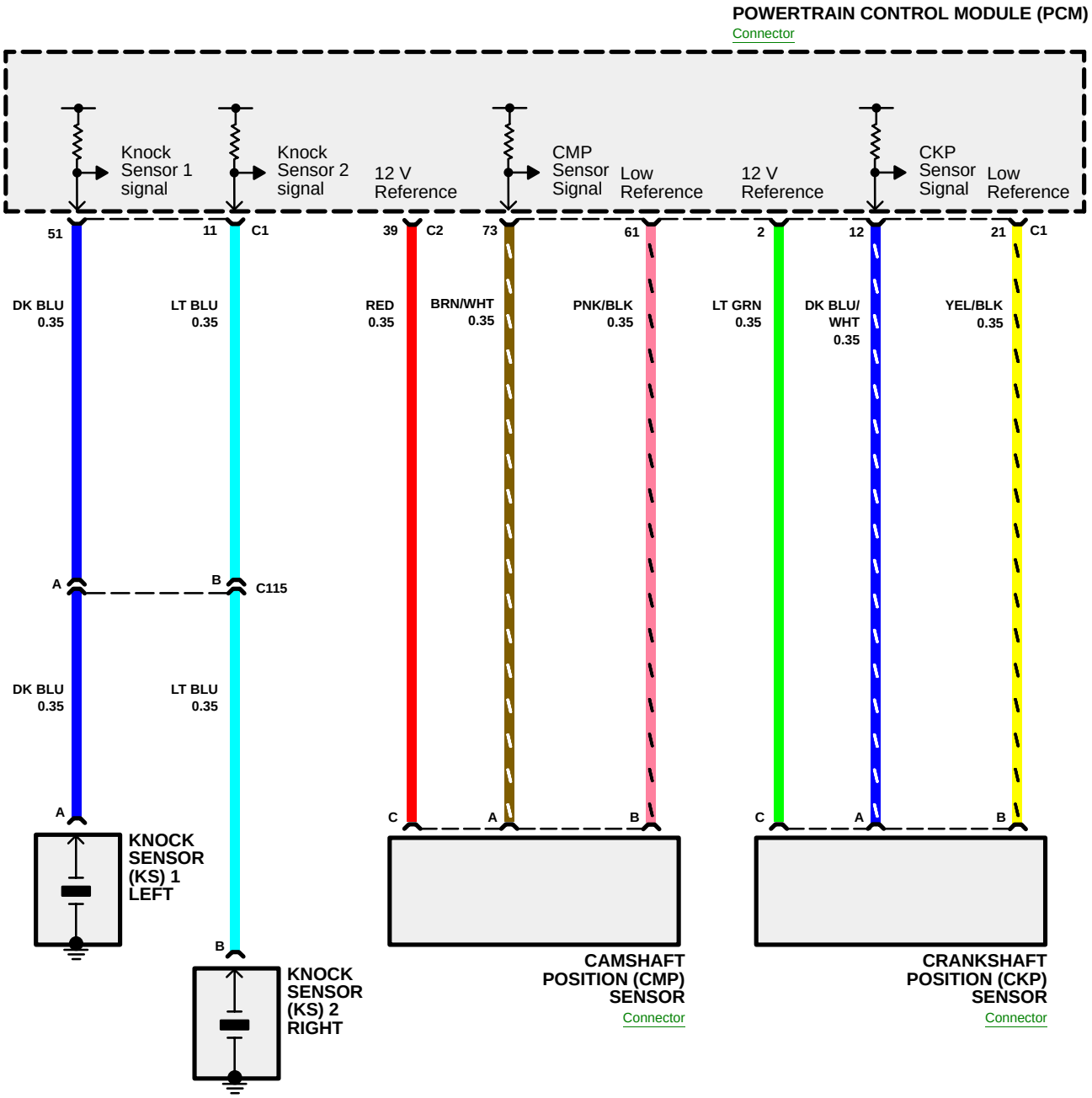
ENGINE CONTROLS: 5.3L

Circuit Schematic



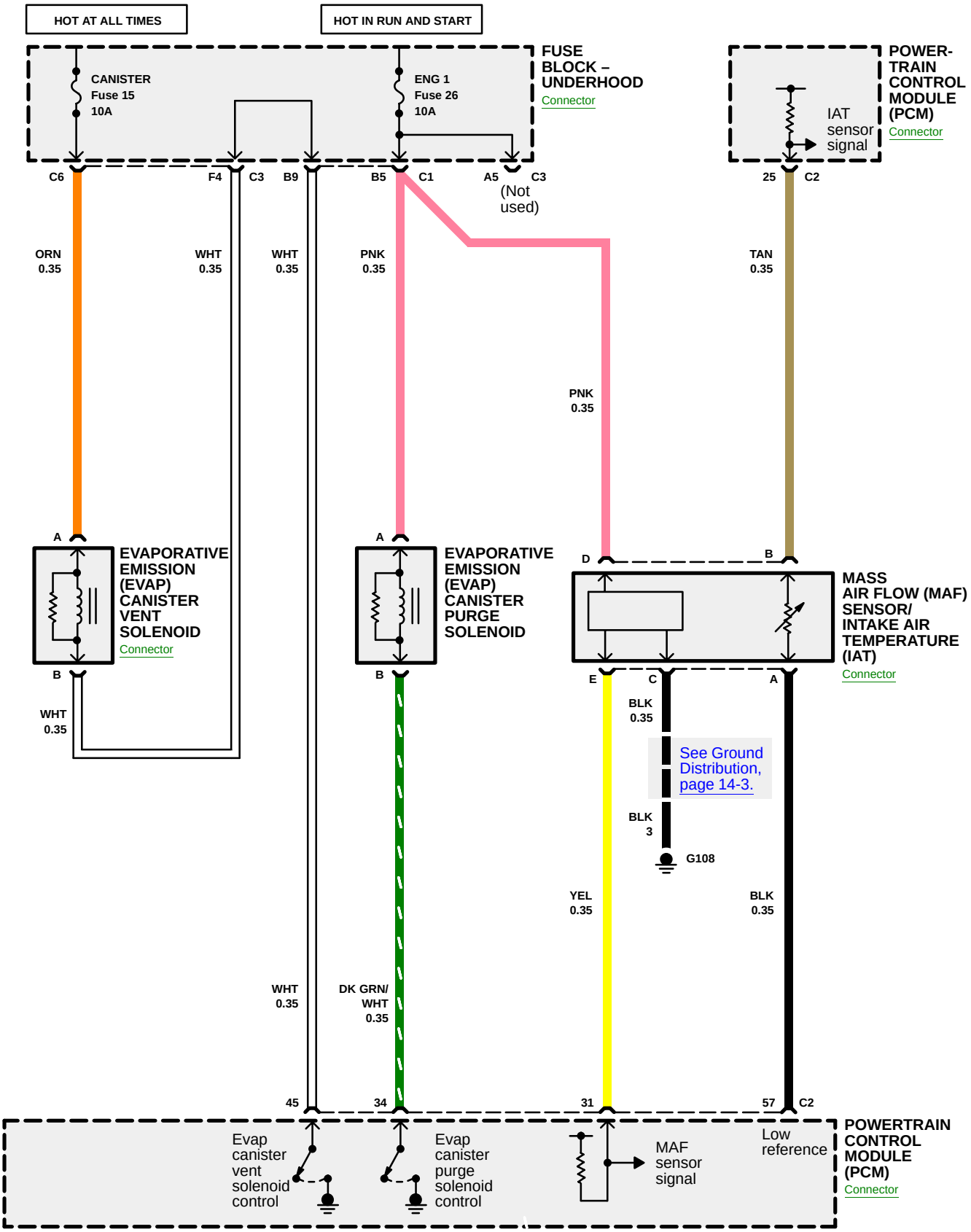
ENGINE CONTROLS: 5.3L

Circuit Schematic



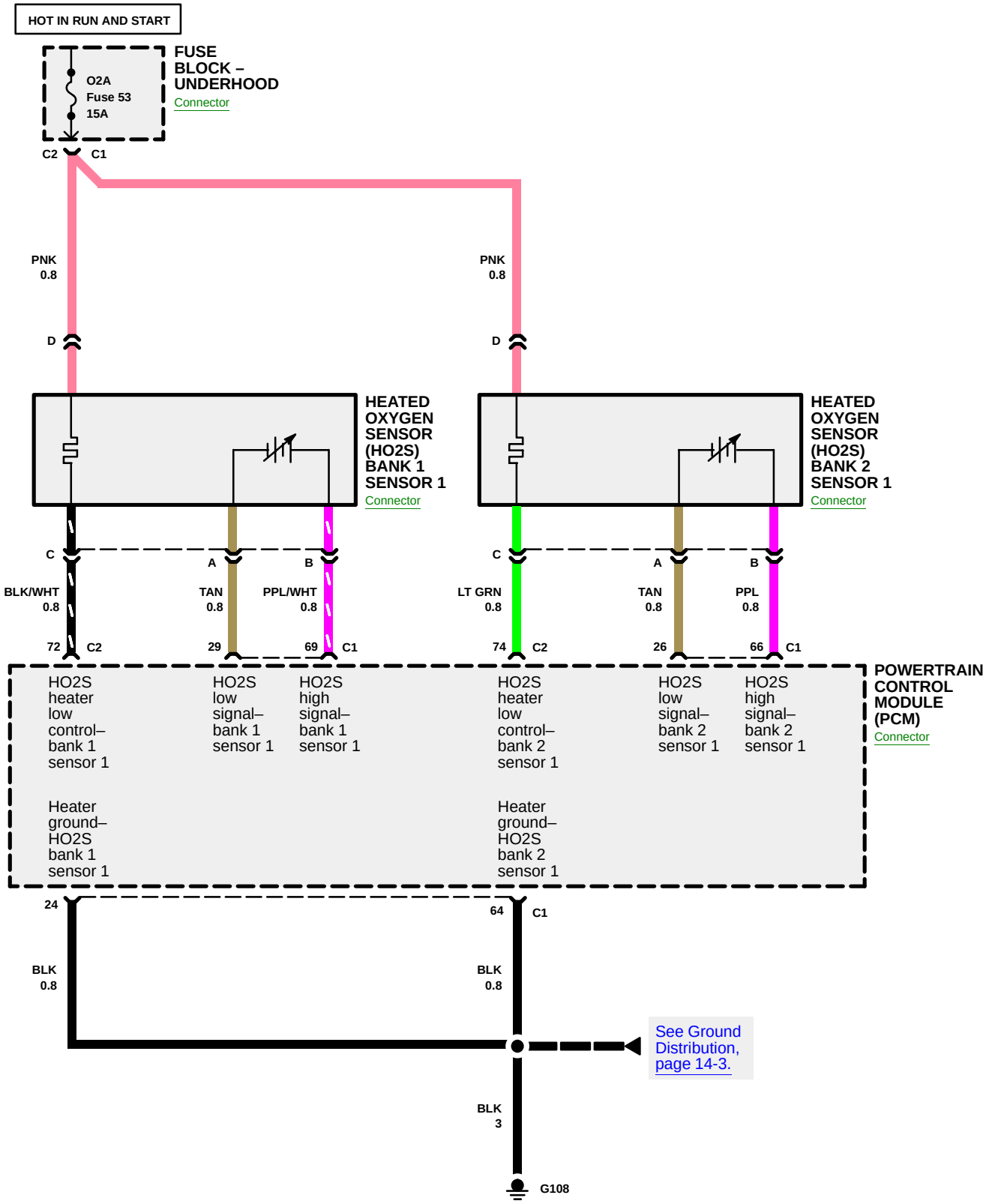
ENGINE CONTROLS: 5.3L

Circuit Schematic



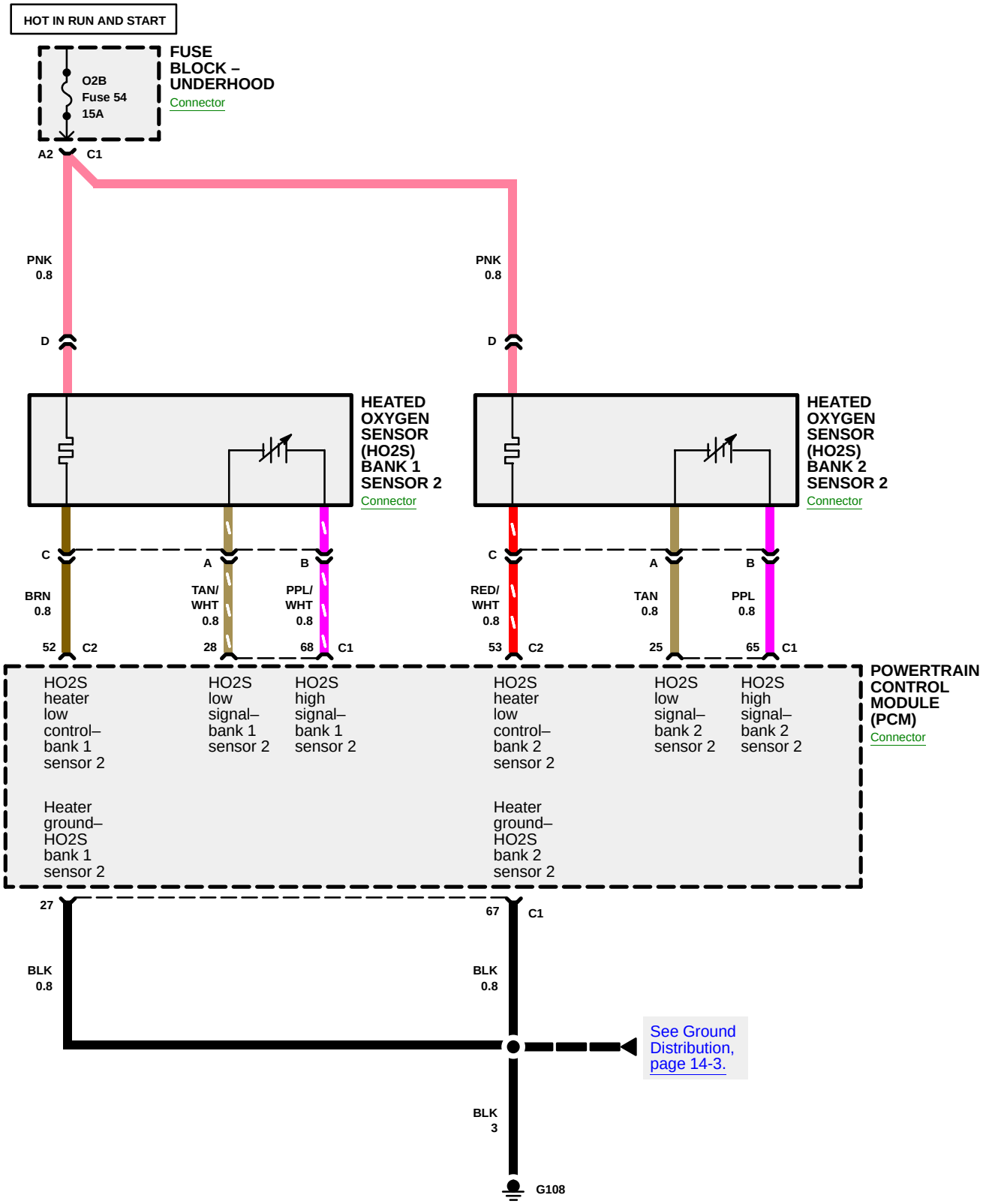
ENGINE CONTROLS: 5.3L

Circuit Schematic



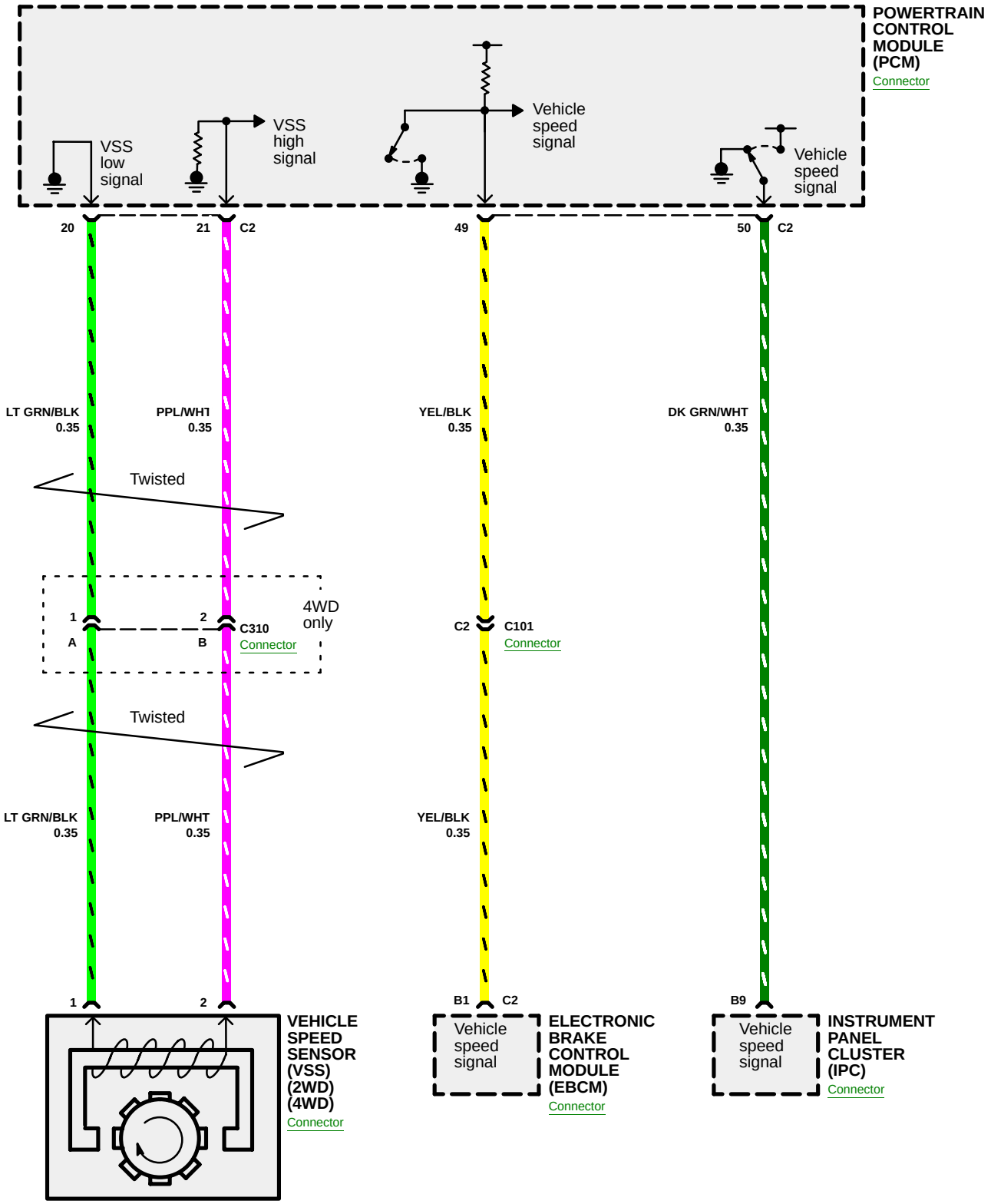
ENGINE CONTROLS: 5.3L

Circuit Schematic



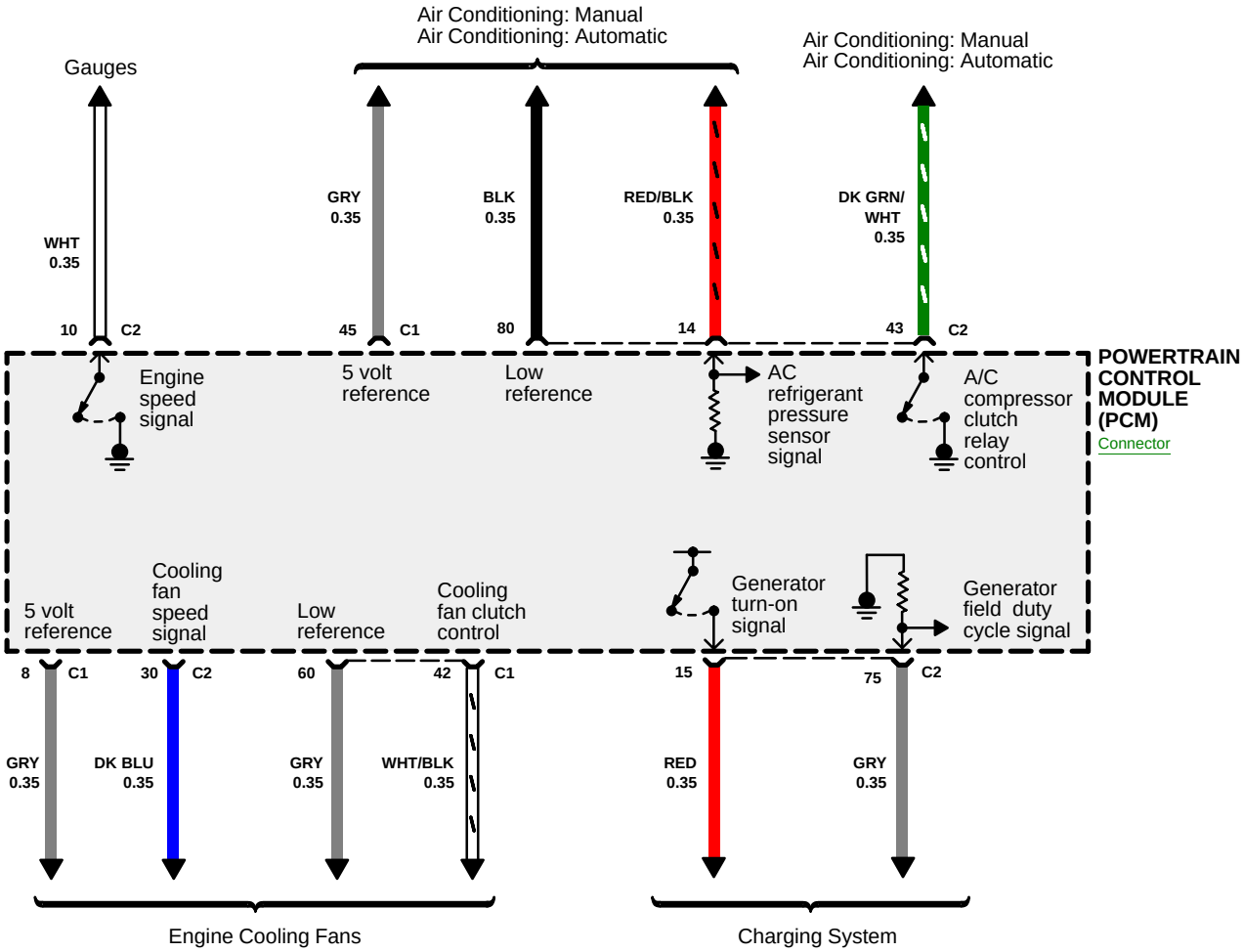
ENGINE CONTROLS: 5.3L

Circuit Schematic



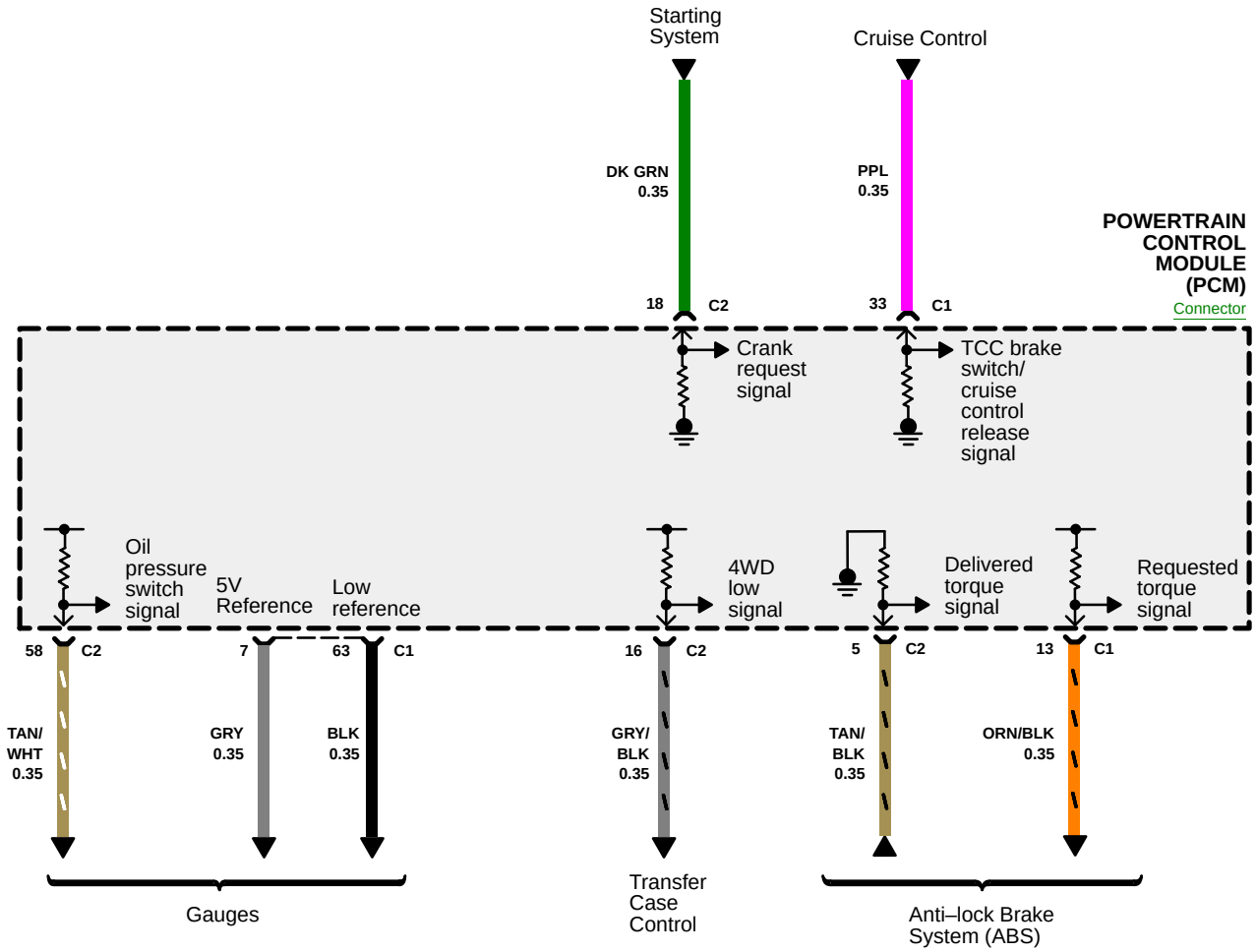
ENGINE CONTROLS: 5.3L

Circuit Schematic



ENGINE CONTROLS: 5.3L

Circuit Schematic



ENGINE CONTROLS: 5.3L

Component Location Index

(Refer to Section 201 for photographs.)

Component		Photo No.
Accelerator Pedal Position (APP) Sensor (5.3L)	On the accelerator bracket	63
Camshaft Position (CMP) Sensor (5.3L)	Top rear of engine	19
Crankshaft Position (CKP) Sensor (5.3L)	Right rear of engine, near starter	48
Electronic Brake Control Module (EBCM)	Inner left side frame rail (near transmission)	41
Engine Coolant Temperature (ECT) Sensor (5.3L)	Left front of engine	24
Evaporative Emission (EVAP) Canister Purge Solenoid (5.3L)	Top of engine	22
Evaporative Emission (EVAP) Canister Vent Solenoid	Rear of the fuel tank	115
Fuel Injector 1 (5.3L)	Top left side of engine	
Fuel Injector 2 (5.3L)	Top right side of engine	
Fuel Injector 3 (5.3L)	Top left side of engine	
Fuel Injector 4 (5.3L)	Top right side of engine	
Fuel Injector 5 (5.3L)	Top left side of engine	
Fuel Injector 6 (5.3L)	Top right side of engine	
Fuel Injector 7 (5.3L)	Top left side of engine	
Fuel Injector 8 (5.3L)	Top right side of engine	
Fuel Pump and Sender Assembly	Inside the fuel tank	
Fuel Tank Pressure (FTP) Sensor	At top left rear of fuel tank	115
Fuse Block-Rear	Under the left rear seat	52
Fuse Block-Underhood	Left side of engine compartment	3
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 1 (5.3L)	Left exhaust downpipe	47
Heated Oxygen Sensor (HO2S) Bank 1 Sensor 2 (5.3L)	Left exhaust pownpipe	47
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 1 (5.3L)	Right exhaust downpipe	46
Heated Oxygen Sensor (HO2S) Bank 2 Sensor 2 (5.3L)	Right exhaust downpipe	46
Instrument Panel Cluster (IPC)	On the left side of the IP, above the steering column	59
Knock Sensor (KS) 1 (Left) (5.3L)	On top rear of engine	
Knock Sensor (KS) 2 (Right) (5.3L)	On top rear of engine	
Manifold Absolute Pressure (MAP) Sensor (5.3L)	Top of engine	22
Mass Air Flow (MAF) Sensor/ Intake Air Temperature (IAT) (5.3L)	Right front of engine compartment	21

ENGINE CONTROLS: 5.3L

Component Location Index

(Refer to Section 201 for photographs.)

Component		Photo No.
Powertrain Control Module (PCM) (5.3L)	Left front of engine compartment	25
Stop Lamp Switch	On brake pedal support	64
Throttle Actuator Control (TAC) Module (5.3L)	Left rear of engine compartment	18
Throttle Body	Right front of engine compartment	21
Vehicle Speed Sensor (VSS) (2WD)	Right rear of transmission	42
Vehicle Speed Sensor (VSS) (4WD)	Left rear of transfer case	44
Connector		
C101 (38-BLK)	Left side of engine compartment	3
C107 (5.3L) (38-BLK)	Left rear of engine compartment	18
C115 (5.3L) (2-BLK)	Top of engine	22
C310 (2-BLK)	Right side of transmission	45
Ground		
G107 (5.3L)	Lower left side of engine	38
G108 (5.3L)	Lower left side of engine	38
G305	Outside of left frame rail, near fuel tank	36