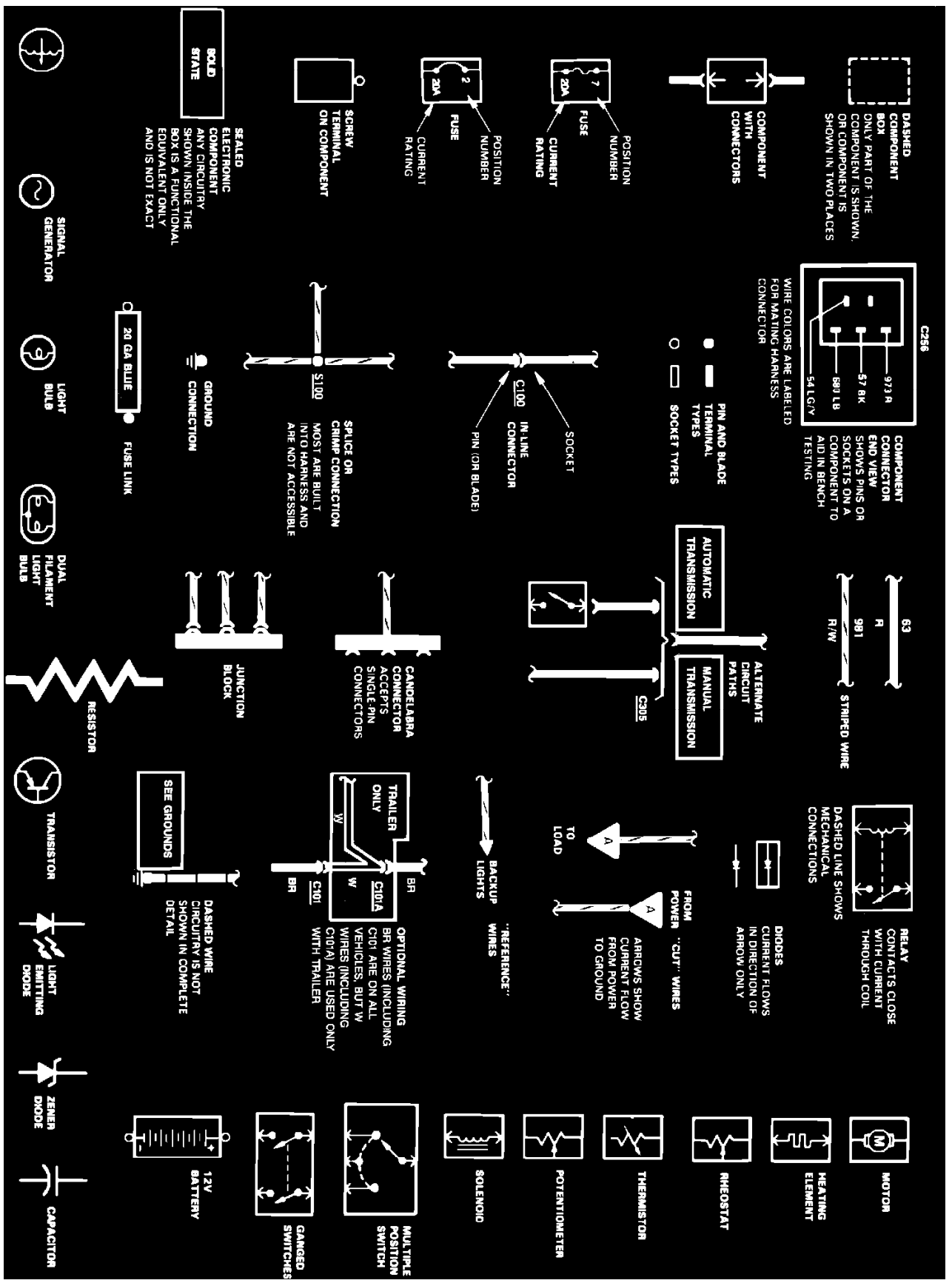

























































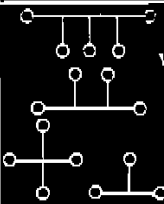


























# Vehicle: Diagrams



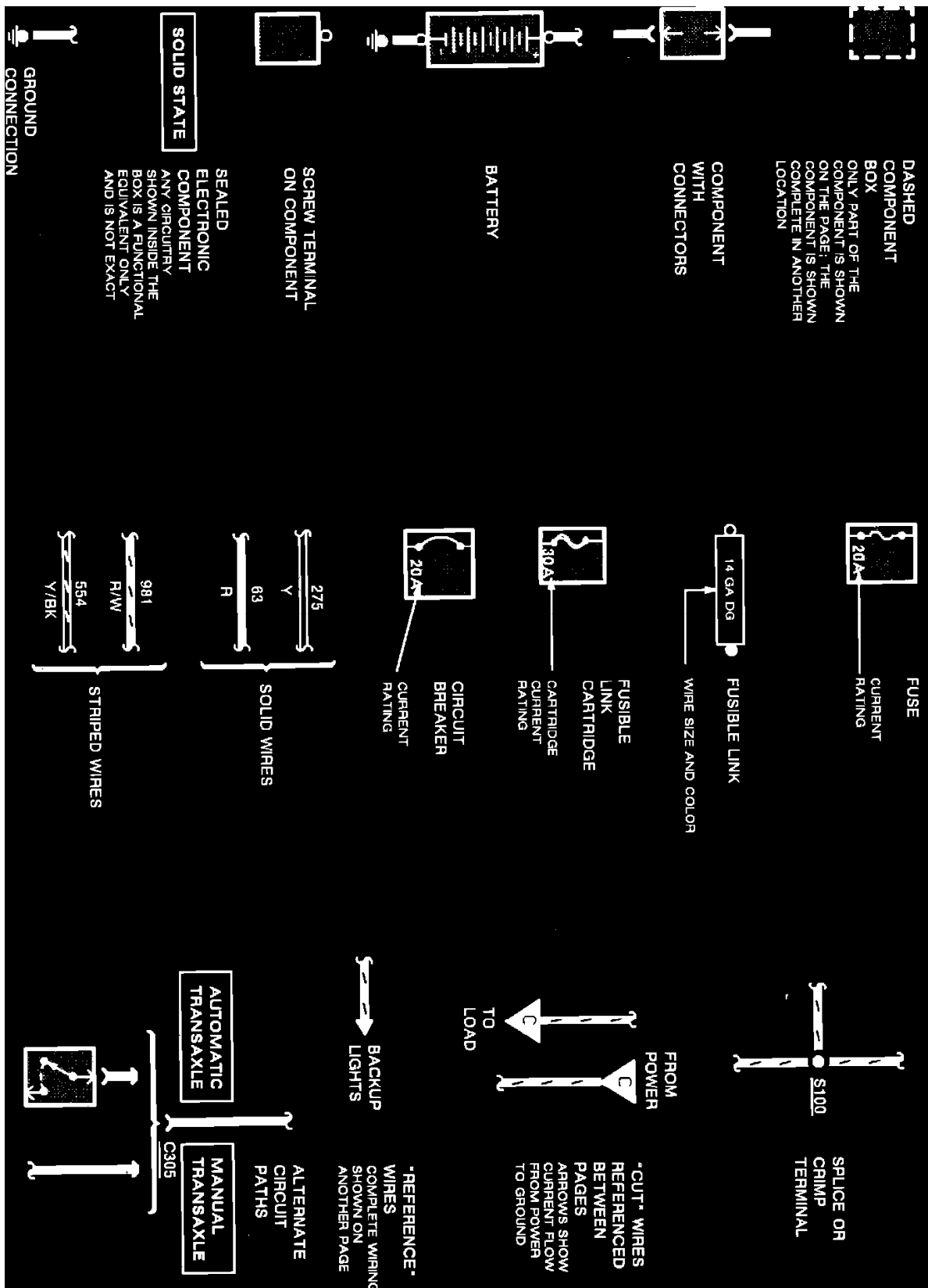
Symbol Identification

 A/CL BI-MET	AIR CLEANER BI-METAL SENSOR	 CC	CARBON CANISTER	 PCV	PCV FLOW CONTROL VALVE	 V-CBV	VACUUM BOWL VENT VALVE OR VACUUM/THERMO. BOWL VENT VALVE
 A/CL CWM	COLD WEATHER MODULATOR (IN AIR CLEANER)	 CPRV	CANISTER PURGE SOLENOID	 PURGE CV	CANISTER PURGE CONTROL VALVE	 VCKV	VACUUM CHECK VALVE
 A/CL DV	AIR INLET DOOR VACUUM MOTOR (ON SNORKEL)	 DIST	DISTRIBUTOR (VACUUM ADVANCE)	 REG	BACKPRESSURE VARIABLE TRANSDUCER (BVT)	 VCV 2-PORT	PORTED VACUUM SWITCH (PVS)
 ACV	THERMACTOR AIR CONTROL VALVE	 EFGA	FUEL CHARGING ASSEMBLY	 SA-FV	FUEL-VACUUM SEPARATOR	 VCV 3-PORT	
 AIR BPV	THERMACTOR AIR BYPASS VALVE (DIFFERENTIAL WITHOUT VACUUM VENT)	 EGR	EXHAUST GAS RECIRCULATION VALVE	 SOL V	SOLENOID VACUUM VALVE (NORMALLY CLOSED)	 VDV	VACUUM DELAY VALVE
 AIR BPV AIR BPV	THERMACTOR AIR BYPASS VALVE (DIFFERENTIAL WITH VACUUM VENT)	 EVR	ELECTRONIC VACUUM REGULATOR	 SOL V	SOLENOID VACUUM VALVE (NORMALLY OPEN)	 VRDV	VACUUM RETARD DELAY VALVE
 ACV	THERMACTOR DIVERTER VALVE	 HCV	EXHAUST HEAT CONTROL VALVE	 SV-CBV	FUEL BOWL SOLENOID	 VRESER	VACUUM RESERVOIR
 AIR BPV	THERMACTOR AIR BYPASS VALVE (NON- DIFFERENTIAL)	 IVV VAC	THERMACTOR IDLE VACUUM VALVE	 TVS	TEMPERATURE VACUUM SWITCH	 VREST	VACUUM RESTRICTOR
 BVT	BACKPRESSURE VARIABLE TRANSDUCER	 LCV	LOAD CONTROL VALVE (WOT VALVE)	 TVV	THERMAL BOWL VENT VALVE	 VRV	VACUUM REGULATOR VALVE
 CARB	CARBURETOR	 MAN VAC	MANIFOLD VACUUM FITTING	 VAC IVV	THERMACTOR IDLE VACUUM VALVE	 VVVAC OR VACVV-D	VACUUM VENT VALVE

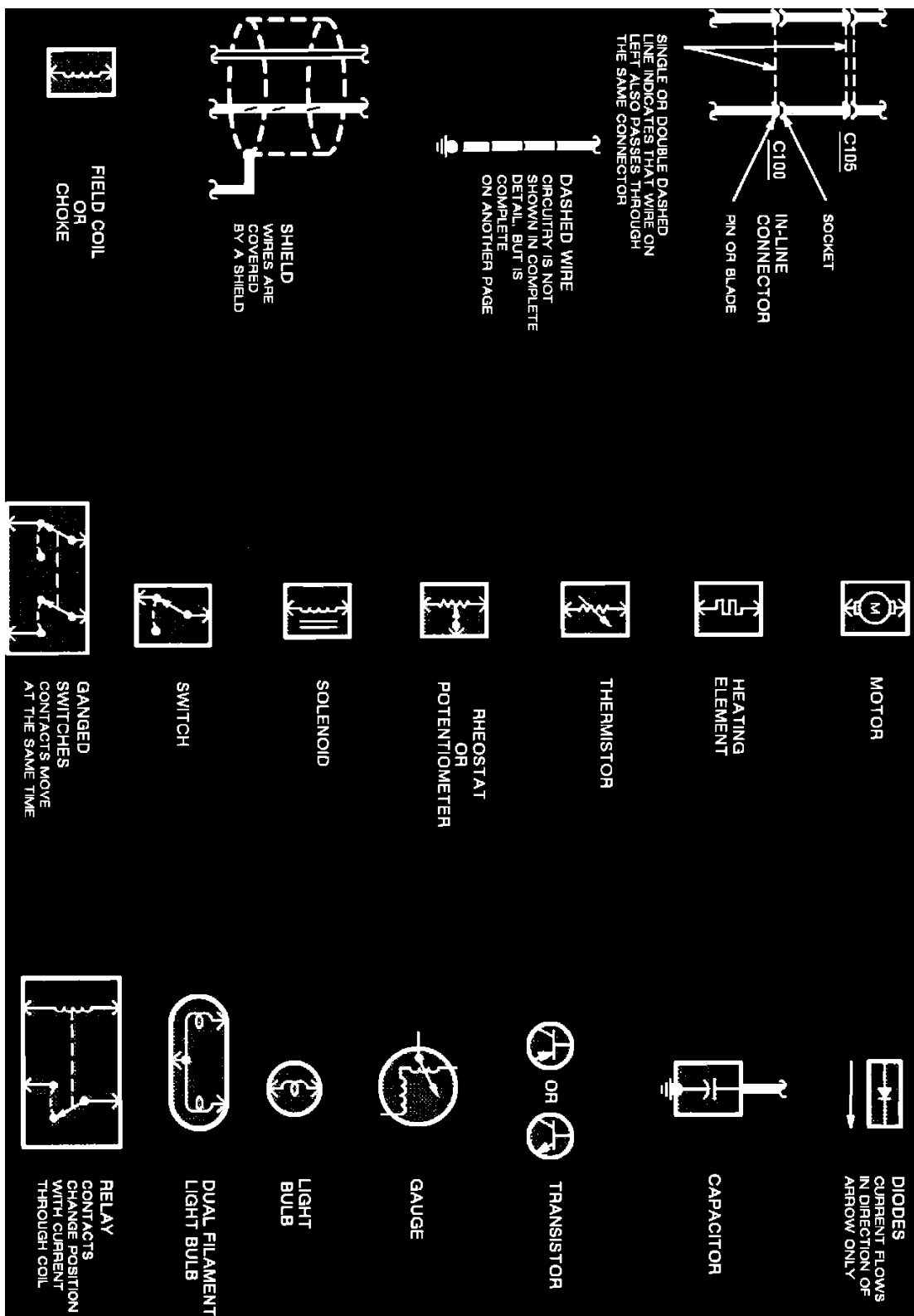
Vacuum And Vapor Hose Schematic Symbols

 Electronic EGR Valve Position Sensor	 Carbon Canister	 PCV Vent Valve, Shed EVAP Hose	 EGR Valve & Transducer Assembly
 Air Check Valve (Pulse Air)	 Throttle Positioner Assembly	 Canister Purge Control Valve	 EGR Valve Assembly
 EGR Venturi Vacuum Amplifier	 Vacuum Control Switch -Distrib. Modulator	 Delta Pressure Feedback Electronic RGR Transducer	 Ported Vacuum Switch 3-Port
 Anti-Backfire Valve Assembly	 Vent Filter (Usually Shown With Base Part)	 Air Silencer	
 Vacuum Line Tee's (3, 4 & 5 way)	 Purge Control/Signal Control Valve	 Arrow Indicating Direction Of Flow	 Vacuum Delay Valve Two-Way
	 Hot Idle Compensator Valve	 SOLENOID VACUUM VALVE (NORMALLY OPEN)	 Wide Open Throttle Dump Valve
 Manifold Pressure Warning Indicator Switch Assembly	 Altitude Compensator	 Exhaust Gas Sensor Terminal (Wastegate)	 Vacuum Reservoir
 Hot Idle Compensator Valve	 Ignition Timing Vacuum Switch	 TK Throttle Kicker	 Vacuum Restrictor
 Fuel Pressure Regulator	 Line Cap (Hose End)	 Barometric & Manifold Pressure Sensor	 Carburetor Vacuum Regulator/Solenoid Valve Assembly
 VO ISC Idle Speed Controller	 P/D Pulldown Motor	 Source Vacuum (Manifold)	 Manifold Absolute Pressure Sensor
 TURBO WARN SWITCH Turbocharger Warning Switch	 Throttle Position Sensor (Rotary)	 Vacuum Operated Throttle Modulator	 2-Port Distributor Modulator Solenoid Valve

Vacuum And Vapor Hose Schematic Symbols



Electrical Symbols



Electrical Symbols

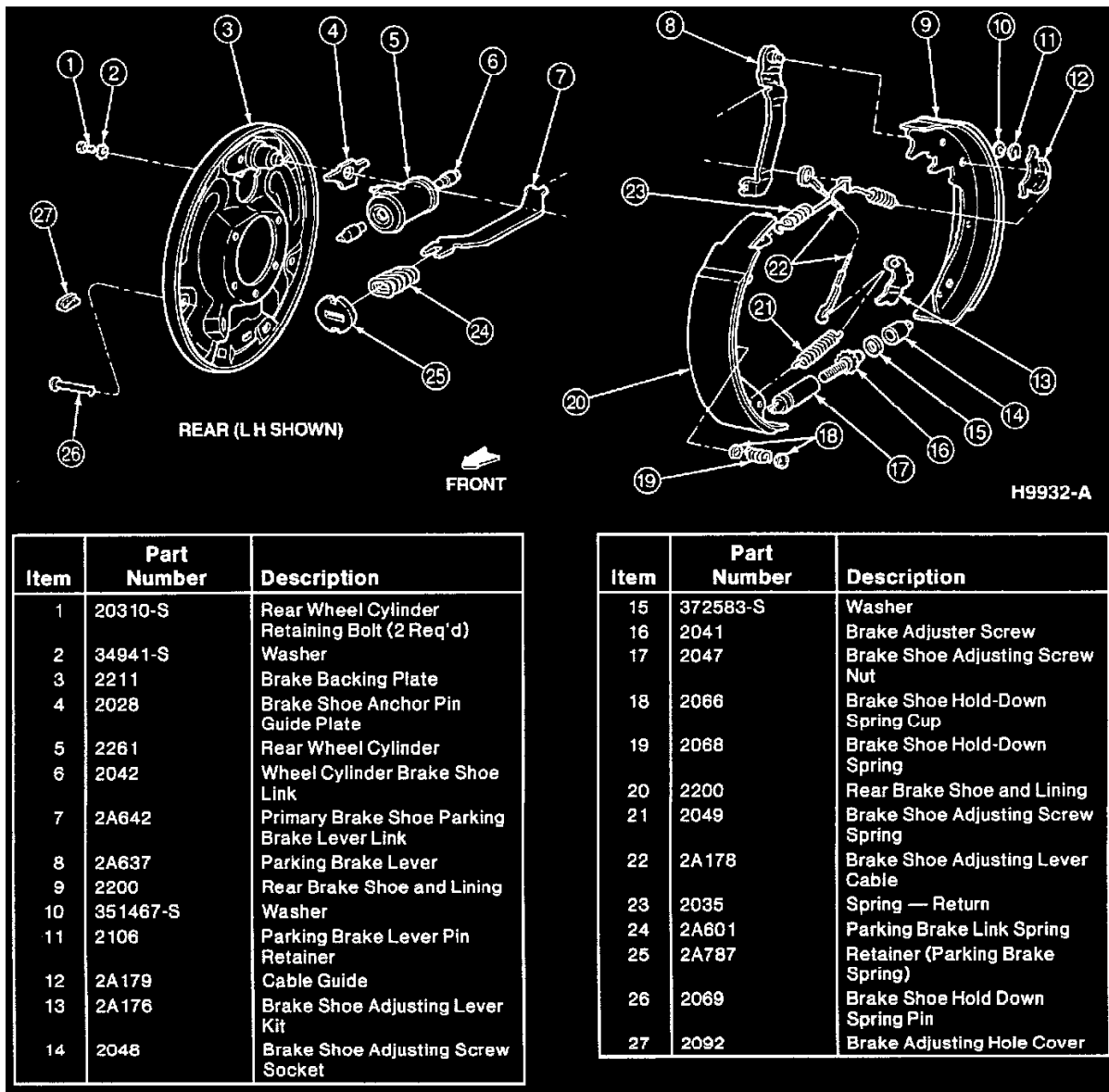
## Wire Color Code Identification

**NOTE:** Whenever a wire is labeled with two colors; the first color listed is the basic color of the wire, and the second color is the tracer marking of the wire. If the second color is followed by a D, the tracer is dots. If the second color is followed by an H, the tracer is hash marks.

For example: BR/O is a brown wire with an orange stripe, R/Y D is a red wire with yellow dots and BK/W H is a black wire with white hash marks.

- BL:** Blue
- BK:** Black

- BR: Brown
- DB: Dark Blue
- DG: Dark Green
- GR: Green
- GY: Gray
- LB: Light Blue
- LG: Light Green
- N: Natural
- O: Orange
- PK: Pink
- R: Red
- P: Purple
- T: Tan
- V: Violet
- W: White
- Y: Yellow



Exploded View

## Alternator

For Integral Alternator Regulator (IAR) Connector Views, please refer to: Starting and Charging/Charging System/Voltage Regulator,

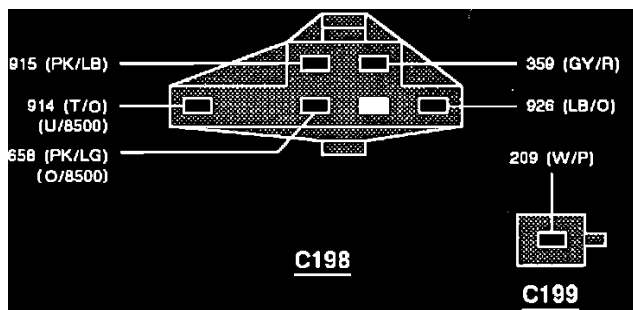
Pin	Circuit	Wire Color	Application	Abbreviations
1	38	BK/O	Keep Alive Power	KAPWR
2	511	LG	Brake On/Off (E4OD Only)	BOO
3	150	DG/W	Vehicle Speed Sensor (+)	VSS DIF (+)
4	11	T/Y	Ignition Diagnostic Monitor	IDM
6	563	O/Y	Vehicle Speed Sensor (-)	VSS DIF (-)
7	354	LG/R	Engine Coolant Temperature Sensor	ECT
8	238	DG/Y	Fuel Pump Monitor	FPM
10	347	BK/Y	A/C Cycling Switch	ACCS
11	200	BR	Air Management 2 Solenoid	AM2
16	259	O/R	Ignition Ground	IGN GND
17	201	T/R	Self-Test Output/Malfunction Indicator Light	STO/MIL
19	315	P	Transmission Shift Solenoid #2 (E4OD Only)	SS2
20	57	BK	Case Ground	CASE GND
21	67	GY/W	Idle Speed Control (Bypass Air) Solenoid	ISC
22	97	T/LG	Fuel Pump	FP
25	310	Y/R	Air Charge Temperature Sensor	ACT
26	351	BR/W	Reference Voltage	VREF
27	352	BR/LG	EGR Valve Position Sensor	EVP
29	94	R/BK	Heated Exhaust Gas Oxygen Sensor	HEGO
30	912	W/R	Neutral Drive Switch	NDS
30	912	W/R	Manual Lever Position Sensor (E4OD Only)	MLP
31	101	GY/Y	Canister Purge Solenoid	CANP
32	911	W/LG	Overdrive Cancel Indicator Light (E4OD Only)	OCIL
33	360	BR/PK	EGR Vacuum Regulator Solenoid	EVR
36	324	Y/LG	Spark Output	SPOUT
37	361	R	Electronic Pressure Control Power/Vehicle Power	EPCPWR/VPWR
38	199	LB/Y	Electronic Pressure Control Solenoid (E4OD Only)	EPC
40	60	BK/LG	Power Ground	PWR GND
41	224	T/W	Overdrive Cancel Switch (E4OD Only)	OCS
42	923	O/BK	Transmission Oil Temperature Sensor (E4OD Only)	TOT

### ECA Connector Pin Identification

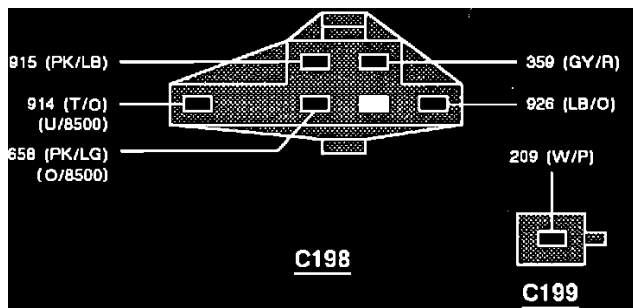
Pin	Circuit	Wire Color	Application	Abbreviations
45	356	DB/LG	Manifold Absolute Pressure	MAP
46	359	GY/R	Signal Return	SIG RTN
47	355	GY/W	Throttle Position Sensor	TP
48	100	W/O	Self-Test Input	STI
49	89	O	Heated Exhaust Gas Oxygen Ground	HEGO GND
51	190	W/R	Air Management 1 Solenoid	AM1
52	237	O	Transmission Shift Solenoid #1 (E4OD Only)	SS1
53	480	P/Y	Converter Clutch Control Solenoid (E4OD Only)	CCC
55	924	BR/O	Converter Coast Solenoid (E4OD Only)	CCS
56	349	DB	Profile Ignition Pick-Up	PIP
57	361	R	Electronic Pressure Control Power/Vehicle Power	EPCPWR/VPWR
58	96	T/O	Injector Bank 1 (Controls Engine Cyl. Nos. 1, 4, 5, and 8)	INJ BANK 1
59	95	T/R	Injector Bank 2 (Controls Engine Cyl. Nos. 2, 3, 6, and 7)	INJ BANK 2
60	60	BK/LG	Power Ground	PWR GND

Pin locations given for reference only. Probing 60 pin connector with DVOM probe will result in permanent damage to the pin connectors. Always probe as directed, using the Breakout Box.

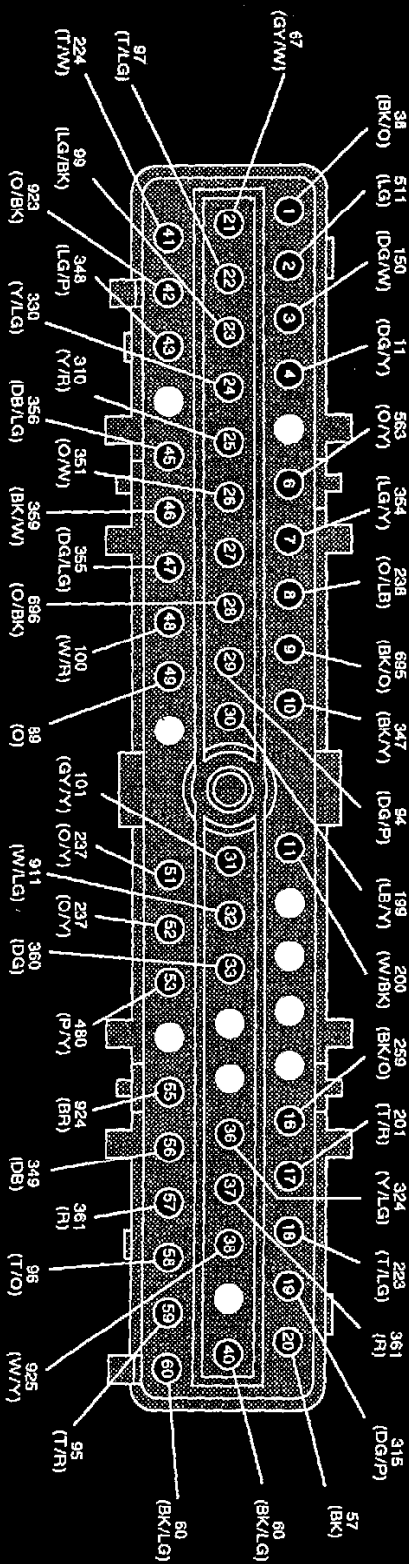
**ECA Connector Pin Identification**



**Diagnostic Connector**



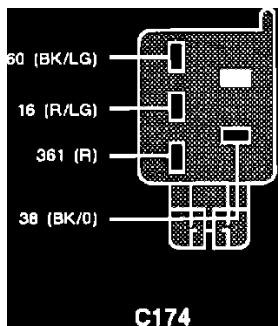
**Diagnostic Connector**



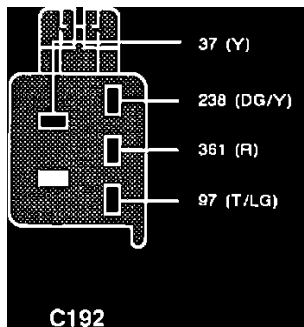
ELECTRONIC ENGINE CONTROL (EEC) MODULE - 5.8L ENGINE

PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION	PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
1	38 (BK/O)	Keep Alive Power Input	16	259 (BK/O)	Ignition Ground
2	511 (LG)	Brake On/Off Input	17	201 (T/R)	Emission Warning Indicator Control
3	150 (DG/W)	Vehicle Speed Sensor Input	18	223 (T/LG)	NOT USED
4	11 (DG/Y)	Ignition Monitor	19	315 (DG/P)	Shift Solenoid (#2) Output (E4OD)
5	---	NOT USED	20	57 (BK)	EEC Ground
6	563 (O/V)	Vehicle Speed Sensor Ground	21	67 (GY/W)	Idle Speed Control Output
7	354 (LG/V)	Engine Coolant Temperature Sensor	22	97 (T/LG)	Fuel Pump Enable Output
8	238 (O/LB)	Fuel Pump Monitor	23	99 (LG/BK)	NOT USED
9	695 (BK/O)	Data Communications Link (-)	24	330 (Y/LG)	Power Steering Pressure Switch Input
10	347 (BK/Y)	A/C Cycle Pressure Switch Input	25	310 (Y/R)	Air Charge Temperature Sensor Input
11	200 (W/BK)	Thermostat Air Diverter Solenoid Control	26	351 (O/W)	Reference Voltage Output
12	---	NOT USED	27	352 (BR/LG)	EGR Valve Position Sensor Input
13	---	NOT USED	28	696 (O/BK)	Data Communications Link (+)
14	---	NOT USED	29	94 (DG/P)	HEGO Sensor Input
15	---	NOT USED	30	199 (LB/Y)	Manual Lever Position Sensor (NDS)

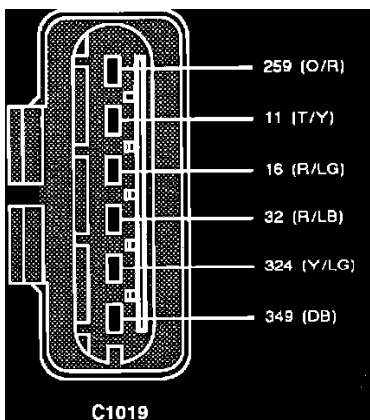
PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION	PIN NUMBER	CIRCUIT	CIRCUIT FUNCTION
31	101 (GV/Y)	Canister Purge Solenoid Control	46	359 (BK/W)	Sensor Signal Return
32	911 (W/LG)	Overdrive Cancel Indicator Lamp	47	355 (DG/LG)	Throttle Position Sensor Input
33	360 (DG)	EGR Vacuum Regulator Solenoid Control	48	100 (W/R)	Self-Test Input
34	—	NOT USED	49	89 (O)	HEGO Sensor Ground
35	—	NOT USED	50	—	NOT USED
36	324 (Y/LG)	Spark Signal Output (Spout)	51	190 (W/R)	Thermactor Air Bypass Solenoid Output
37	361 (R)	Power Input	52	237 (O/Y)	Shift Solenoid (#1) Output (E4OD)
38	925 (W/Y)	Transmission Electronic Pressure Control	53	480 (P/Y)	Converter Clutch Solenoid (#3) Output (E4OD)
39	—	NOT USED	54	—	NOT USED
40	60 (BK/LG)	Ground	55	924 (BR)	Coast Clutch Solenoid (#4) Output (E4OD)
41	224 (T/W)	Transmission Overdrive Switch Input	56	349 (DB)	Ignition Module RPM Input
42	923 (O/BK)	Transmission Oil Temperature Input (E4OD)	57	361 (R)	Power Input
43	348 (LG/P)	NOT USED	58	96 (T/O)	Injector 1, 4, 5, 8 Output
44	—	NOT USED	59	95 (T/R)	Injector 2, 3, 6, 7 Output
45	356 (DB/LG)	Engine Control Barometric Pressure Sensor Input	60	60 (BK/LG)	Ground



EEC-IV Power Relay Connector



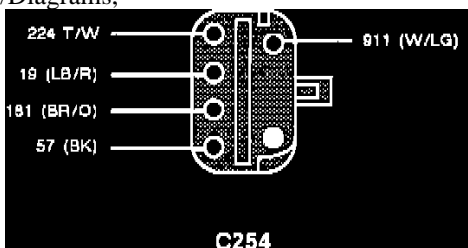
Fuel Pump Relay Connector



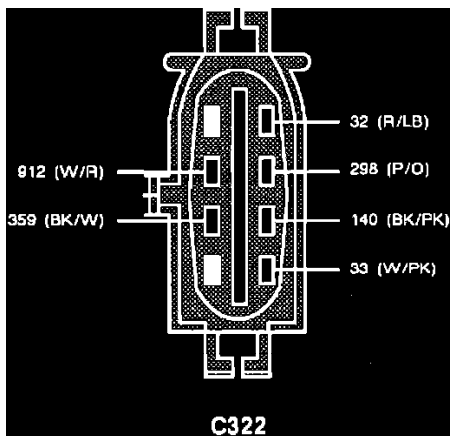
Thick Film Ignition (TFI) Module Connector

## Ignition Lock

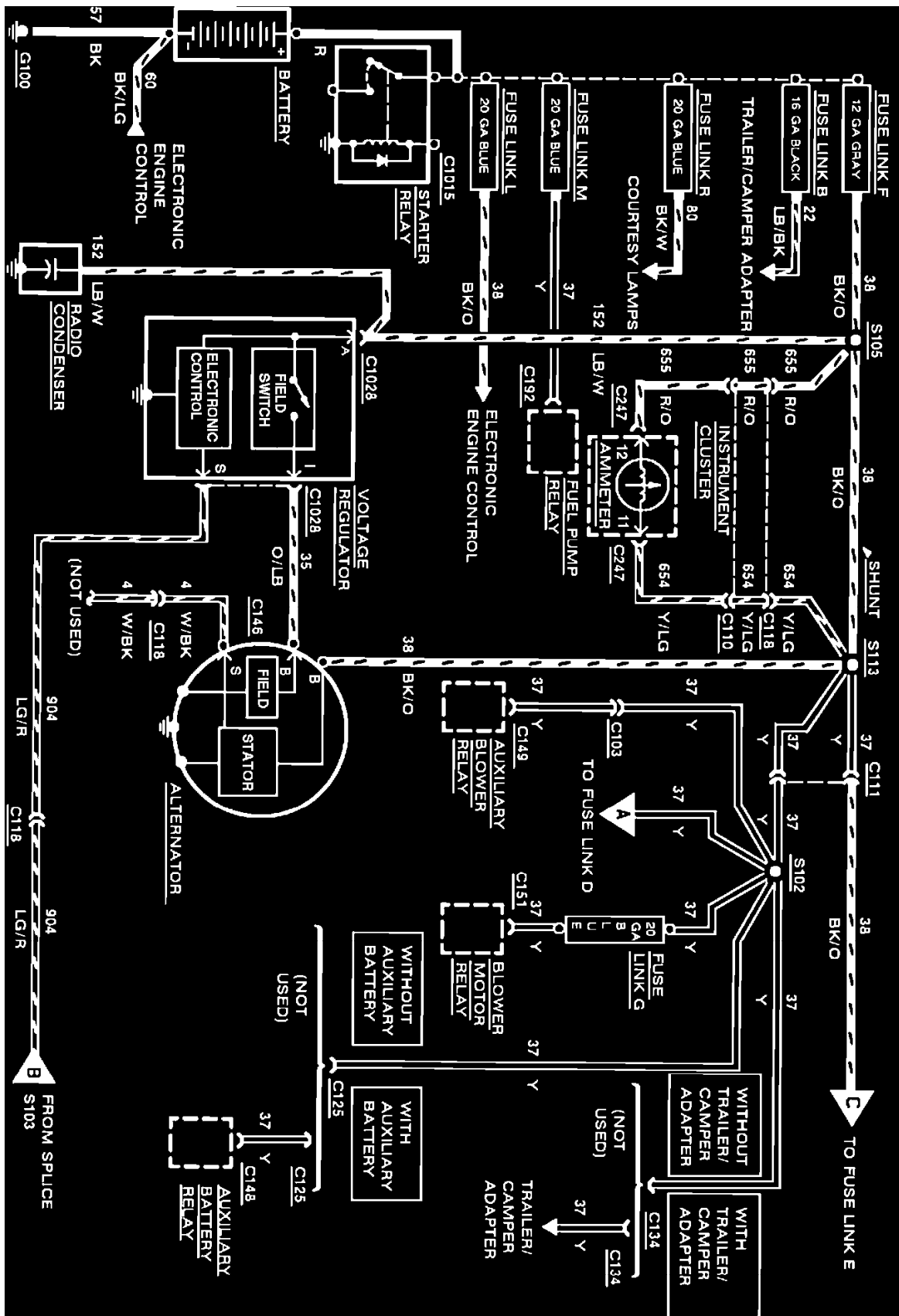
For Connector Views, please refer to: Ignition Switch/Diagrams,



Overdrive Cancel Switch/Indicator Lamp Connector

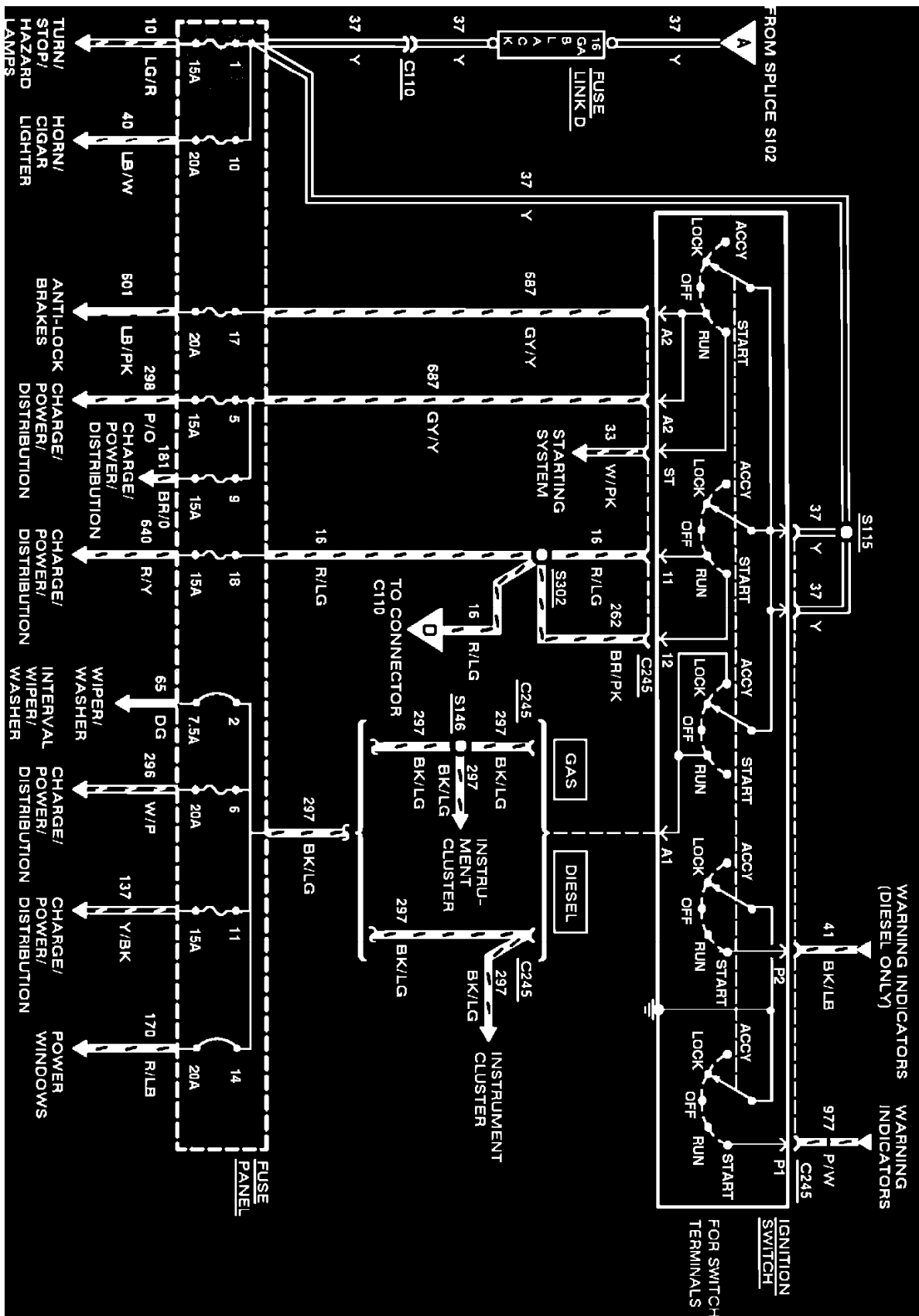


Manual Lever Position Sensor Connector

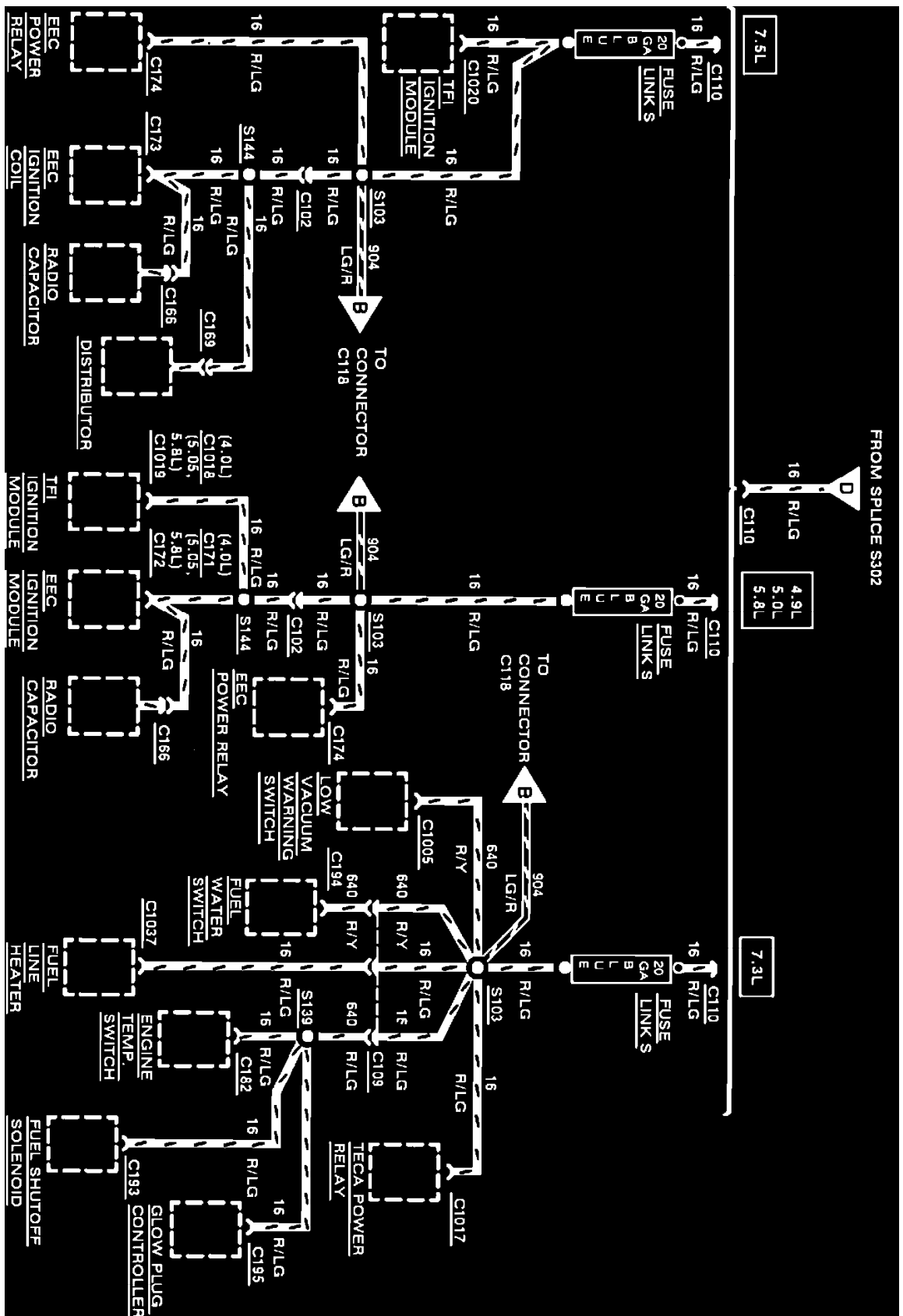


Power Distribution (With Ammeter)

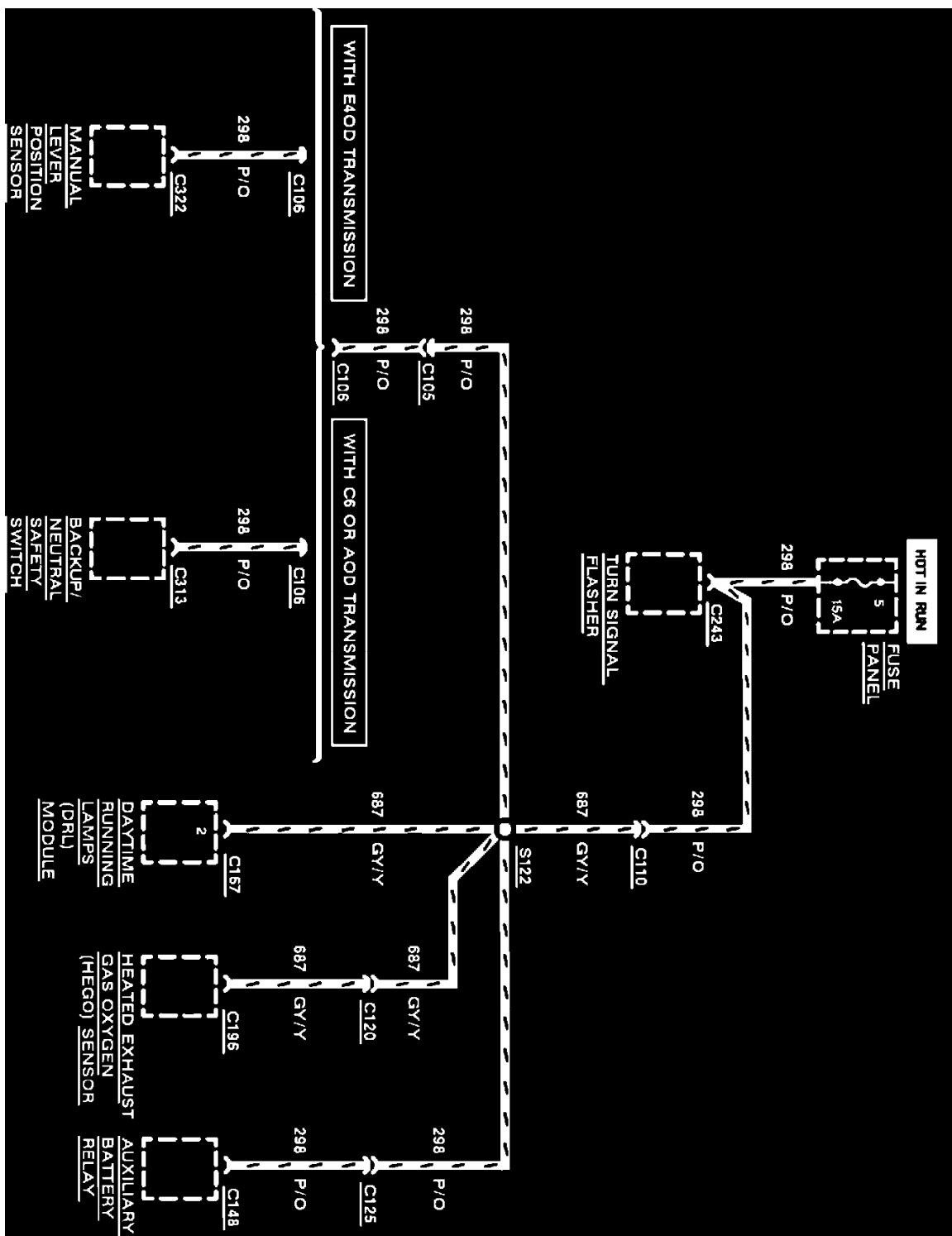




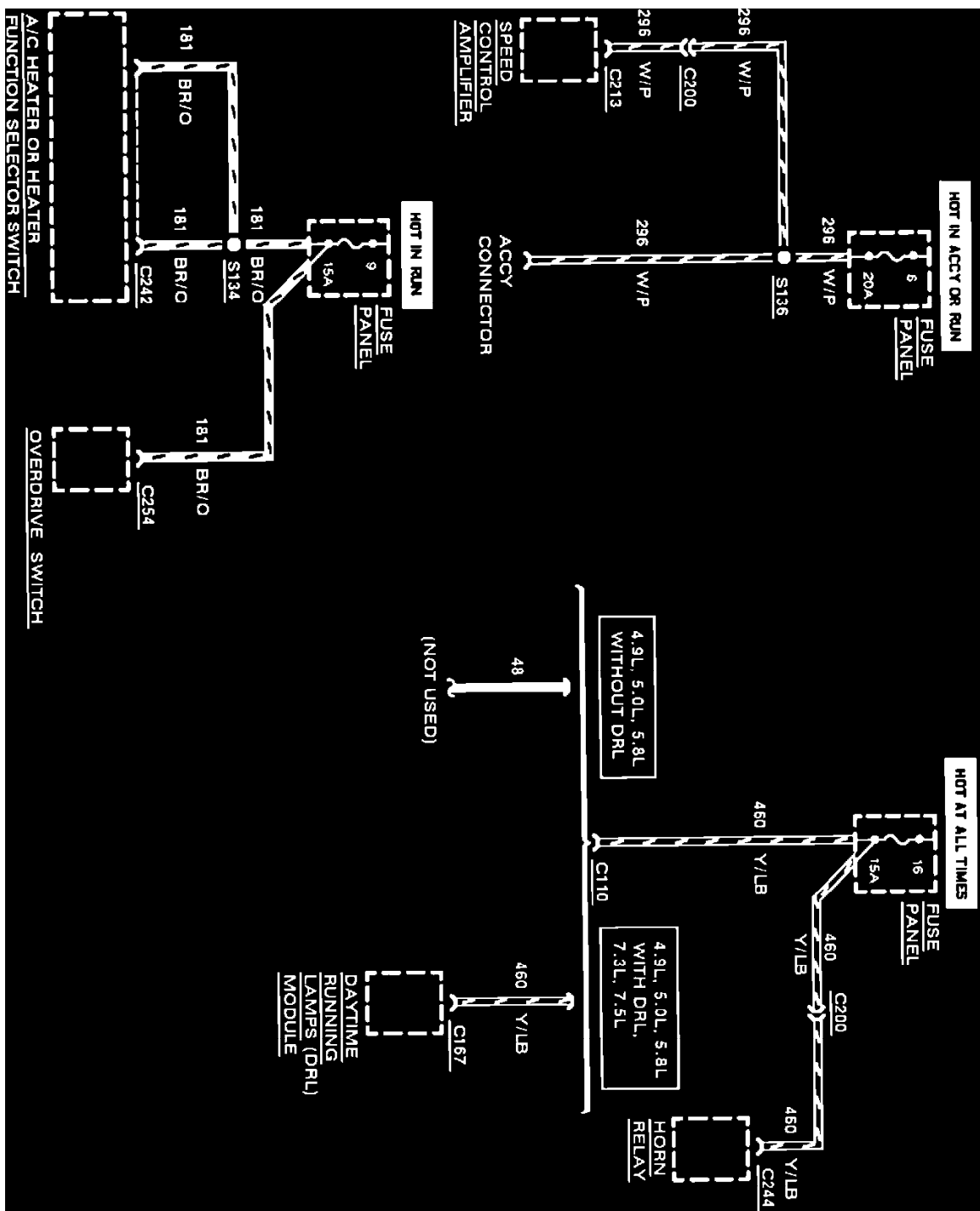
Power Distribution (Fuse Link D)



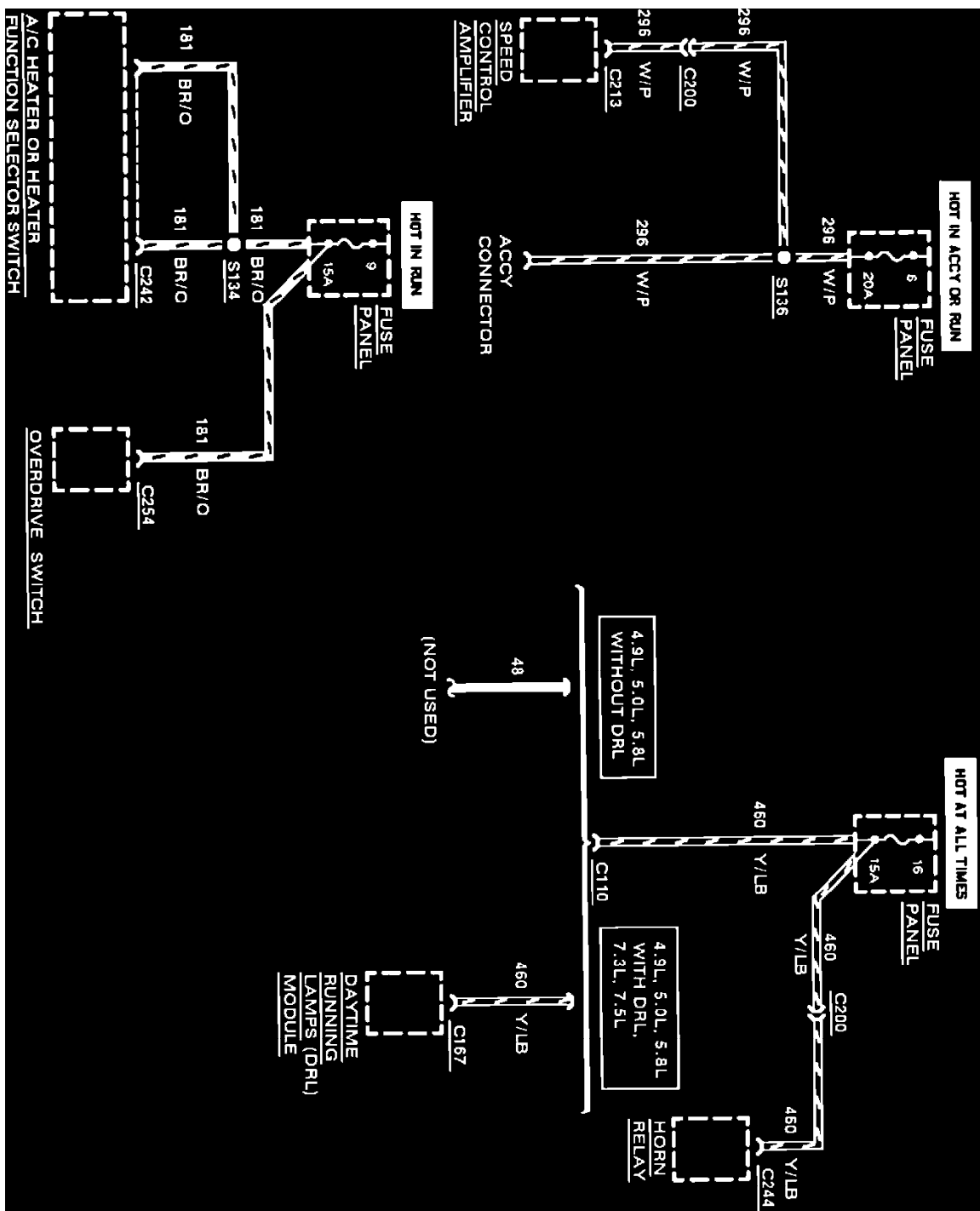
Power Distribution (Fuse Link S)



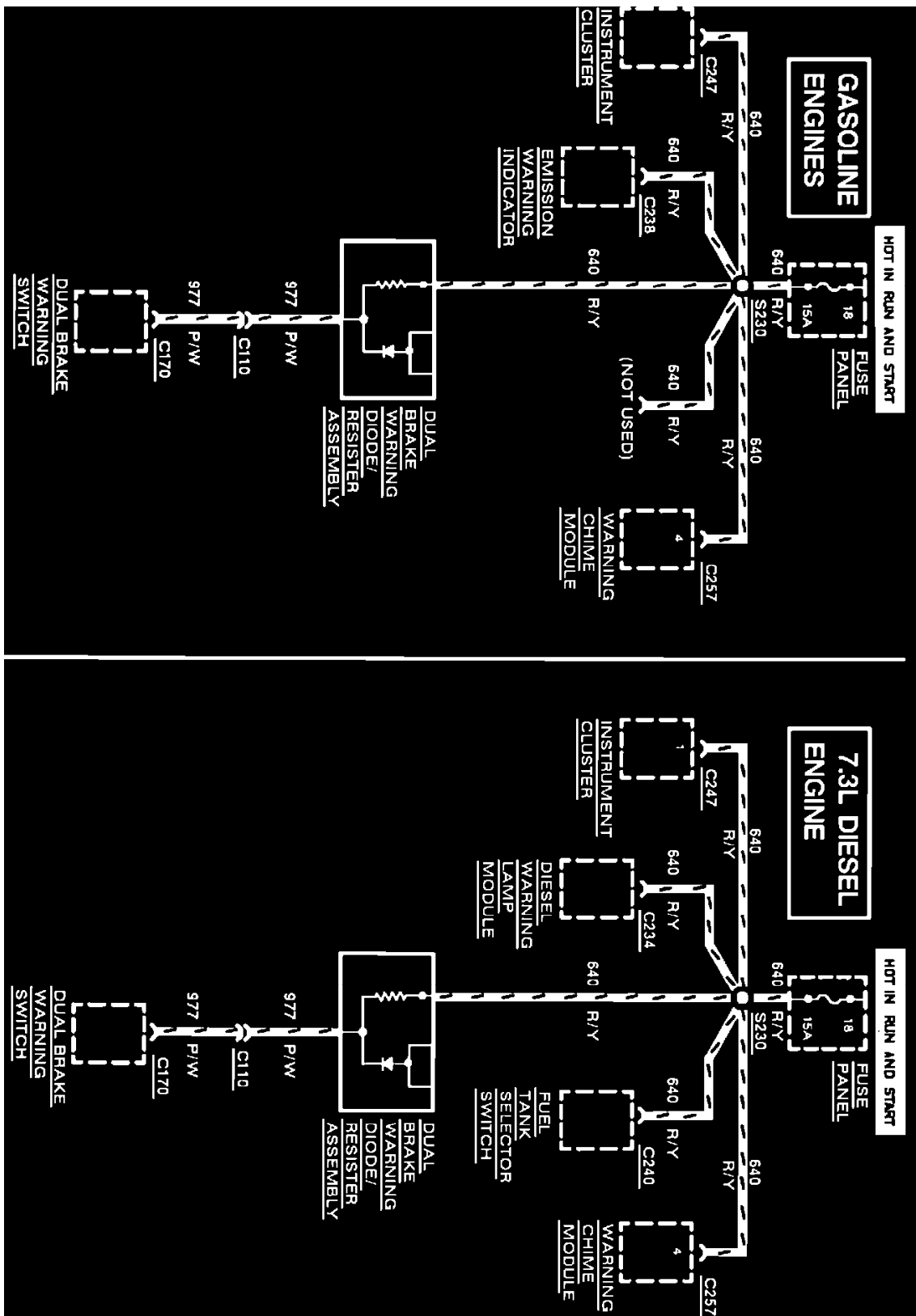
Power Distribution (Fuse 5)



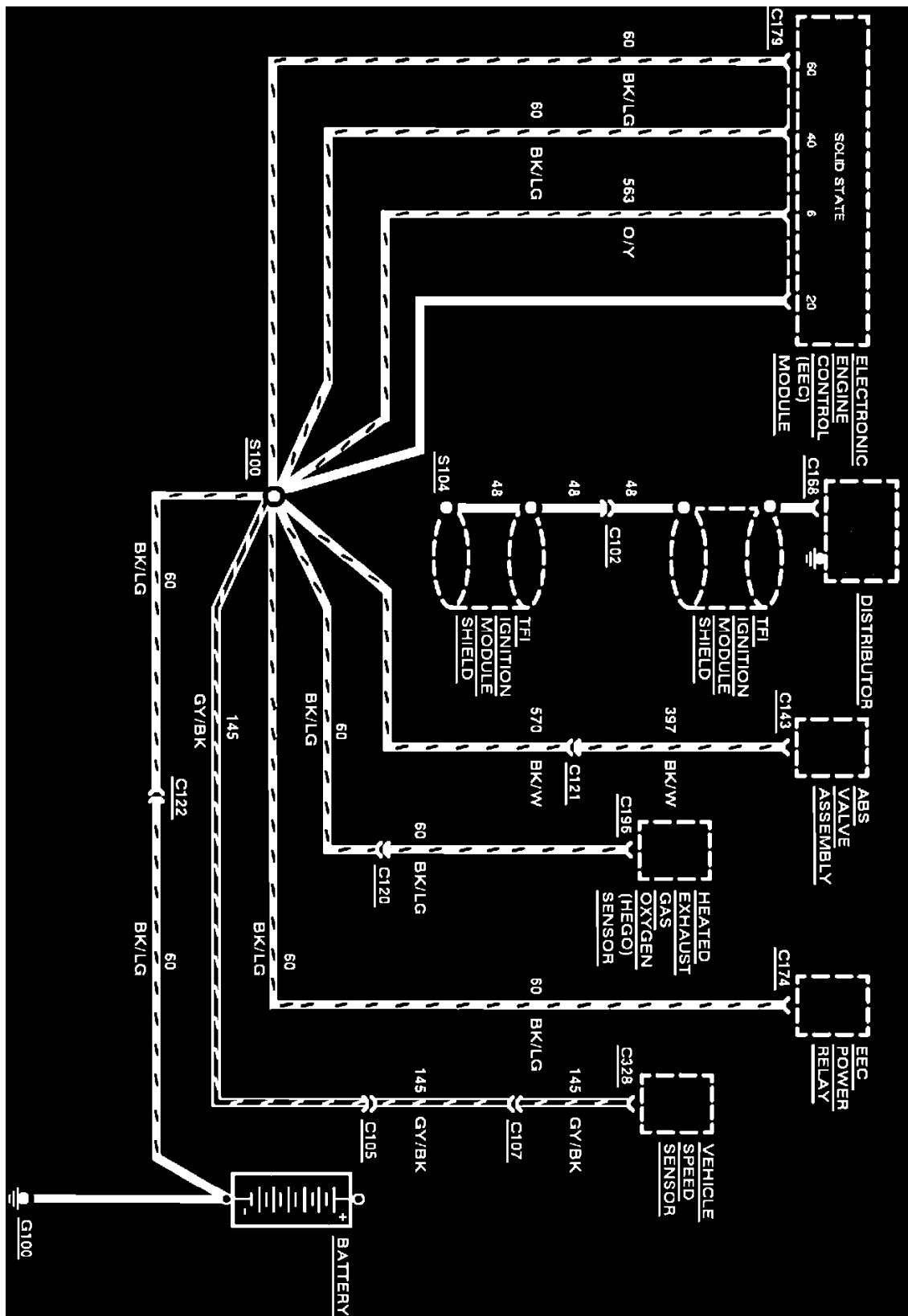
Power Distribution (Fuses 6, 9, And 16)



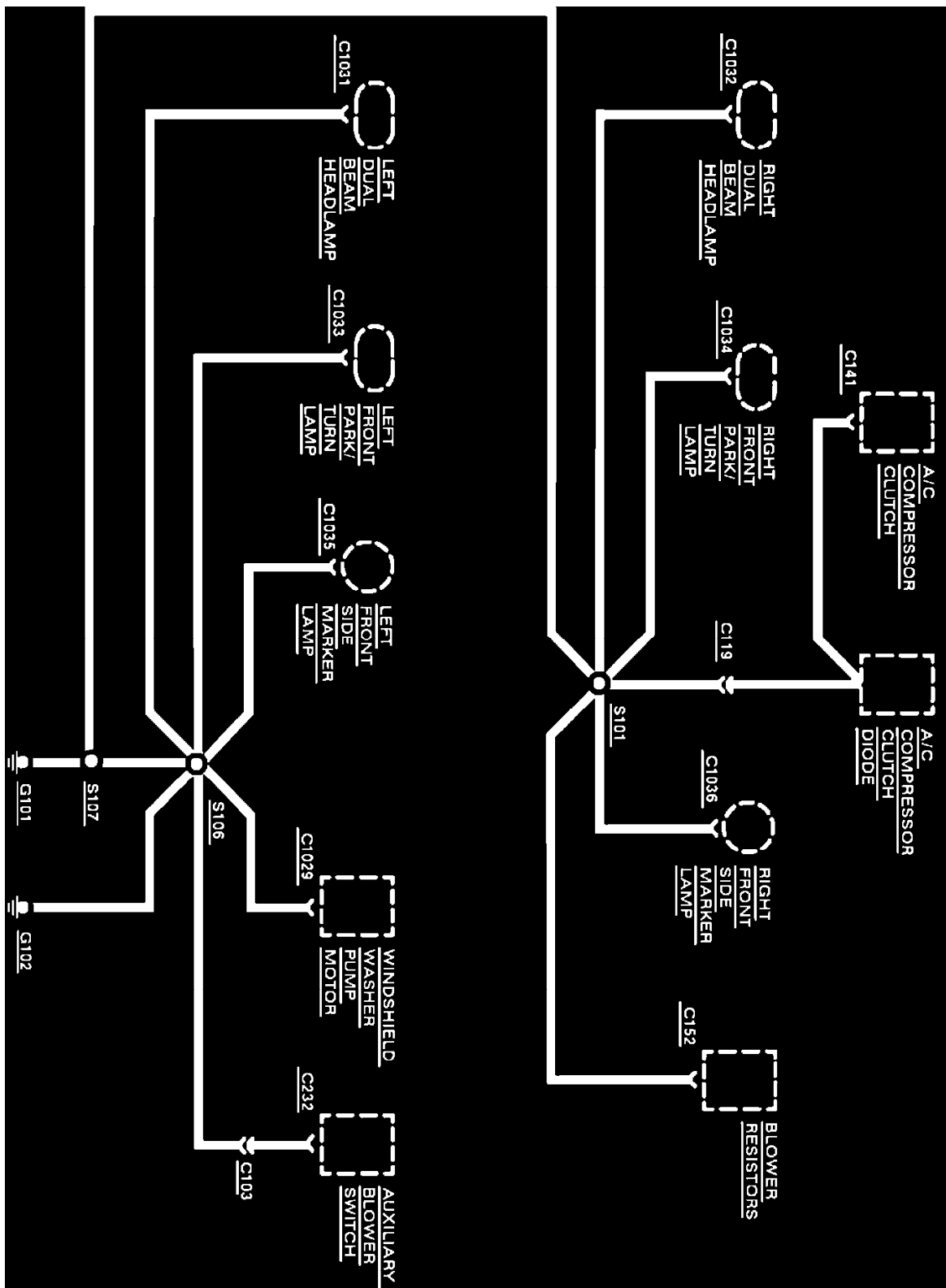
Power Distribution (Fuses 6, 9, And 16)



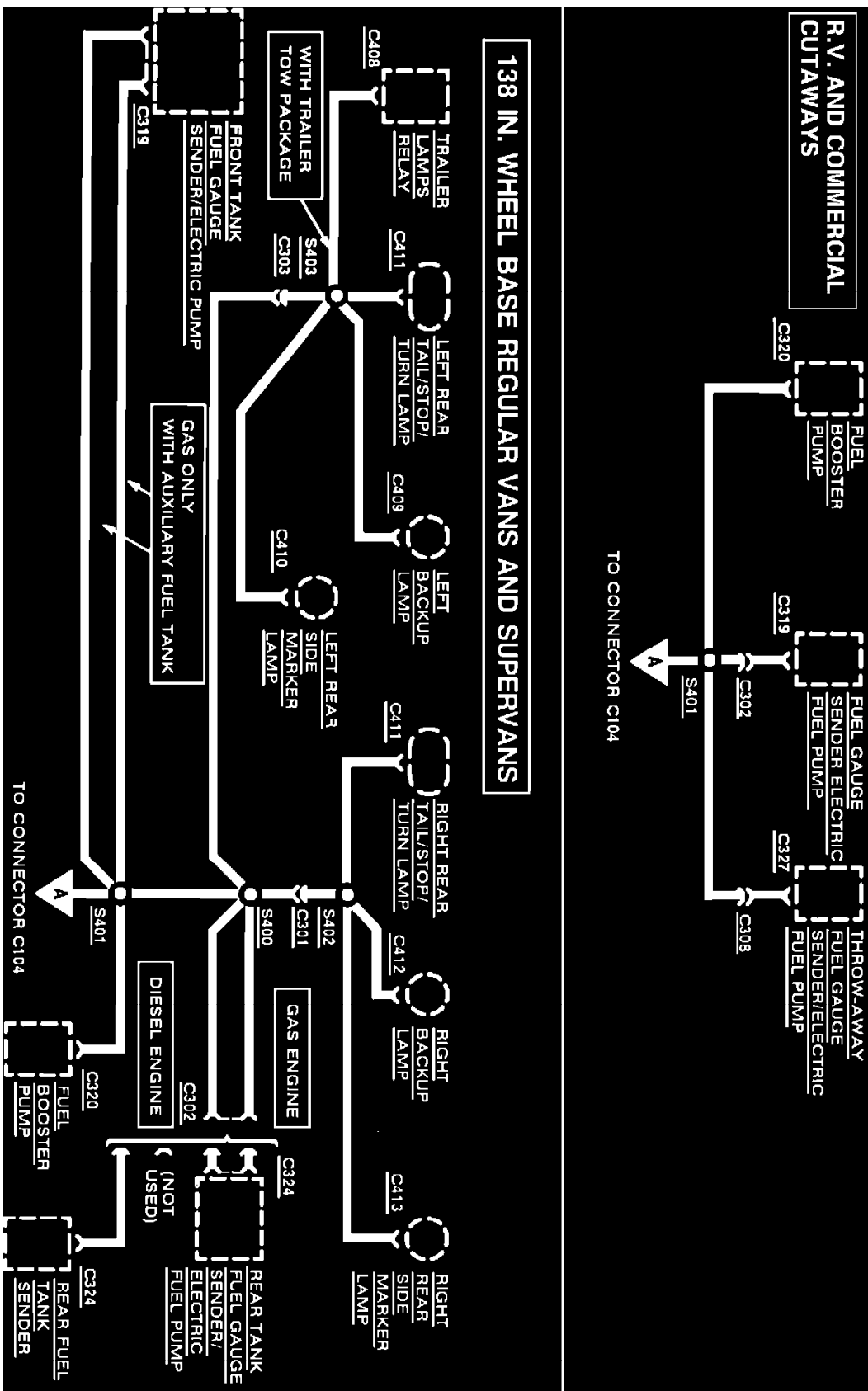
Power Distribution (Fuse 18)



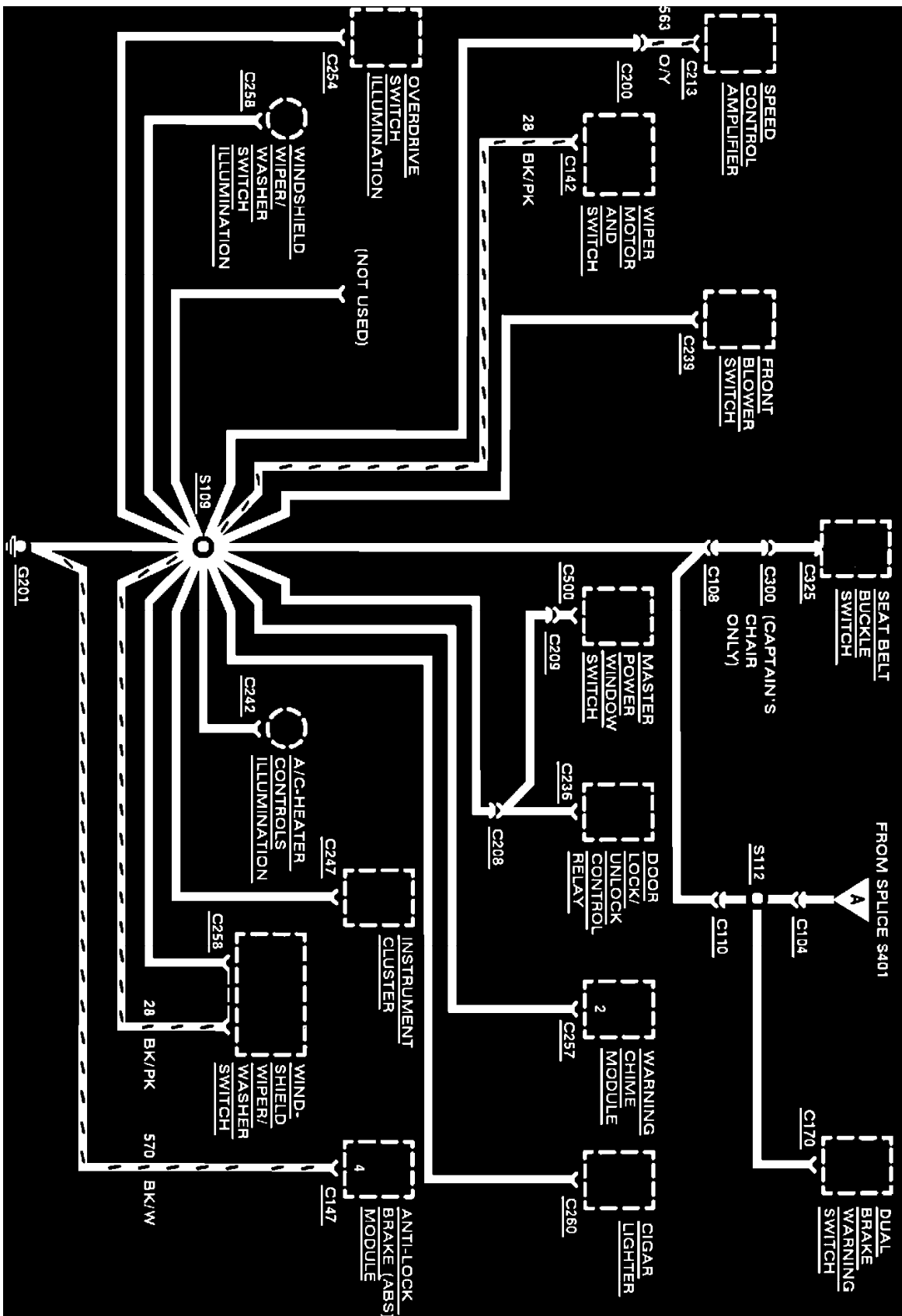
Ground (G100)



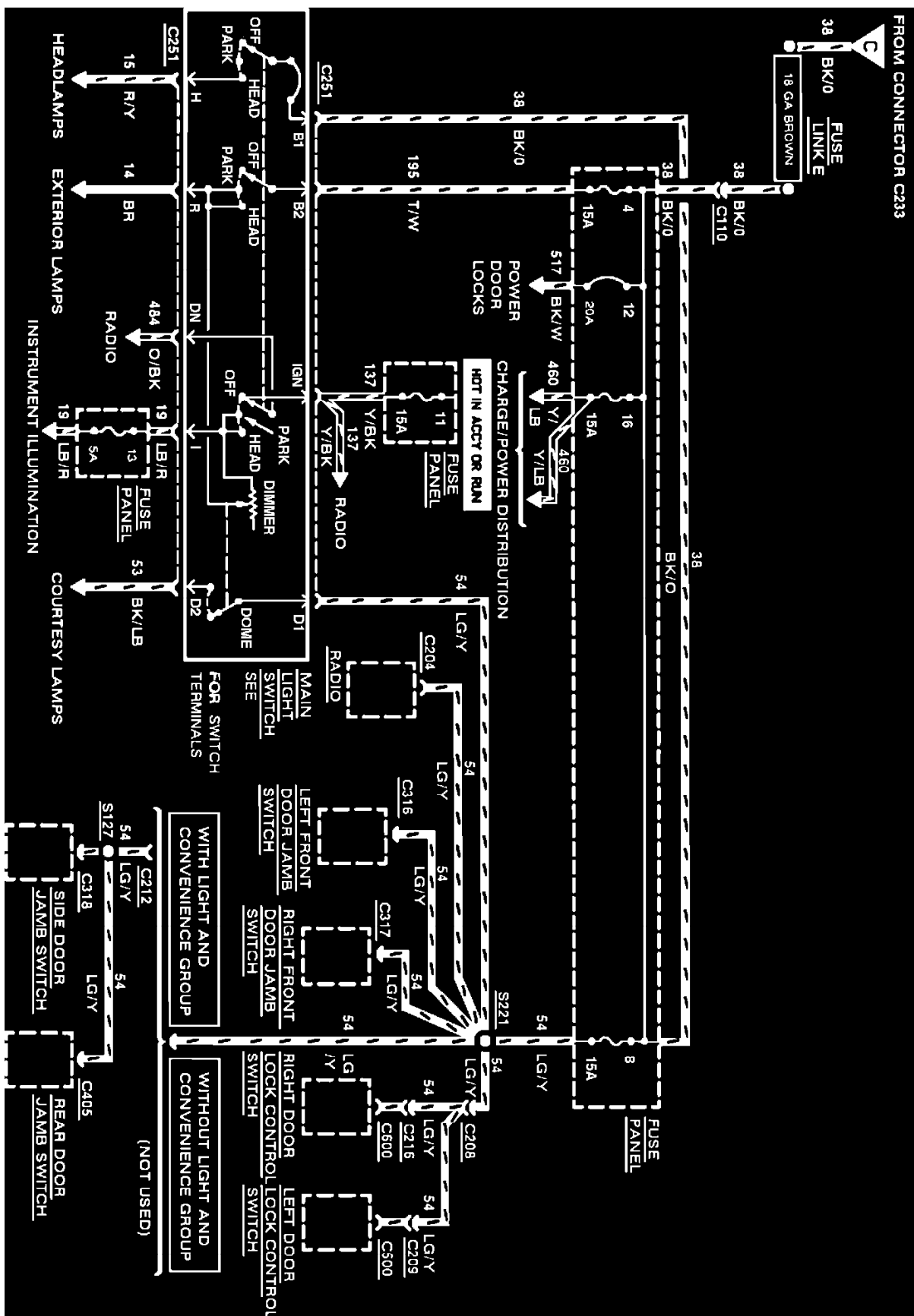
Grounds (G101 And G102)



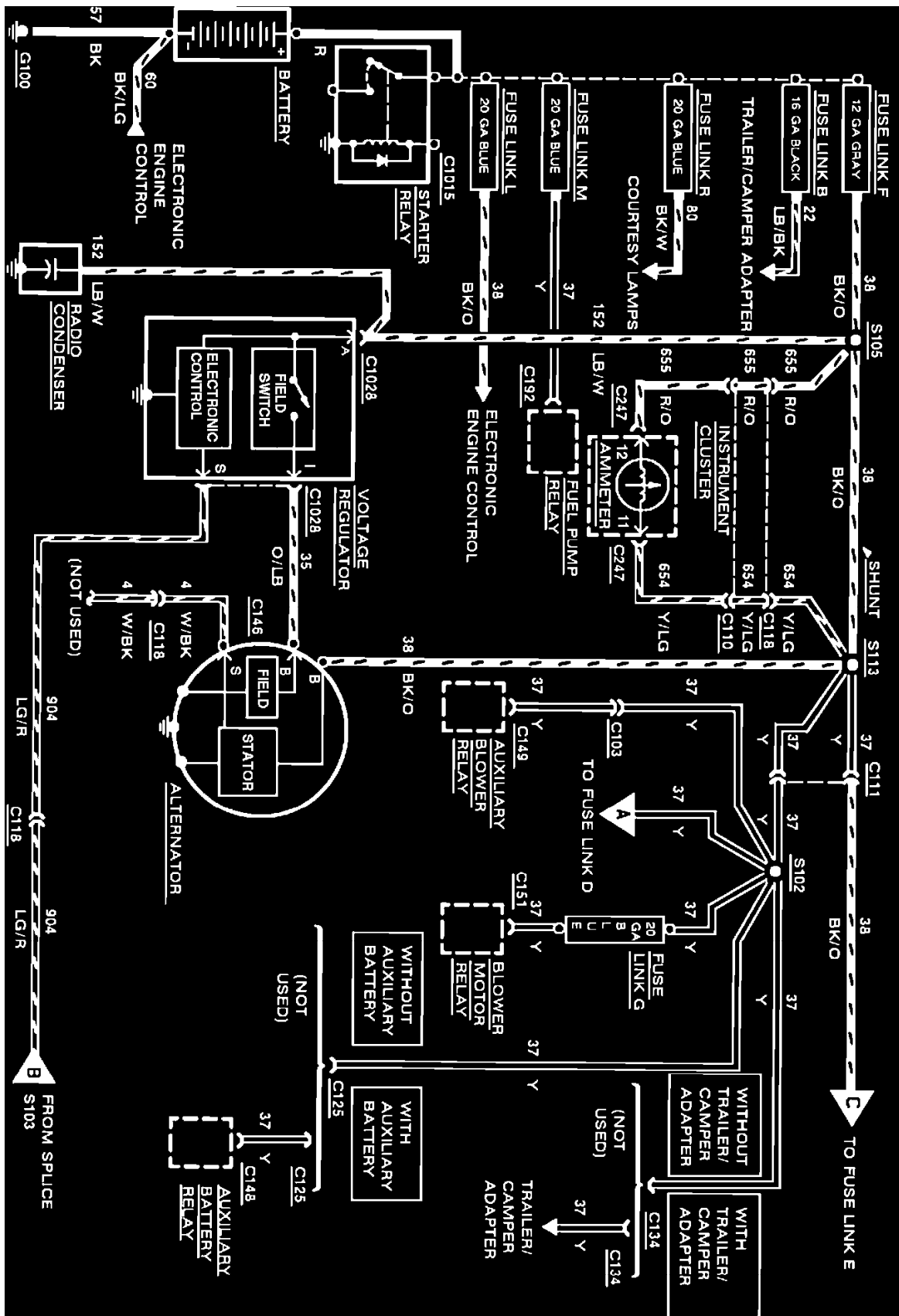
Ground



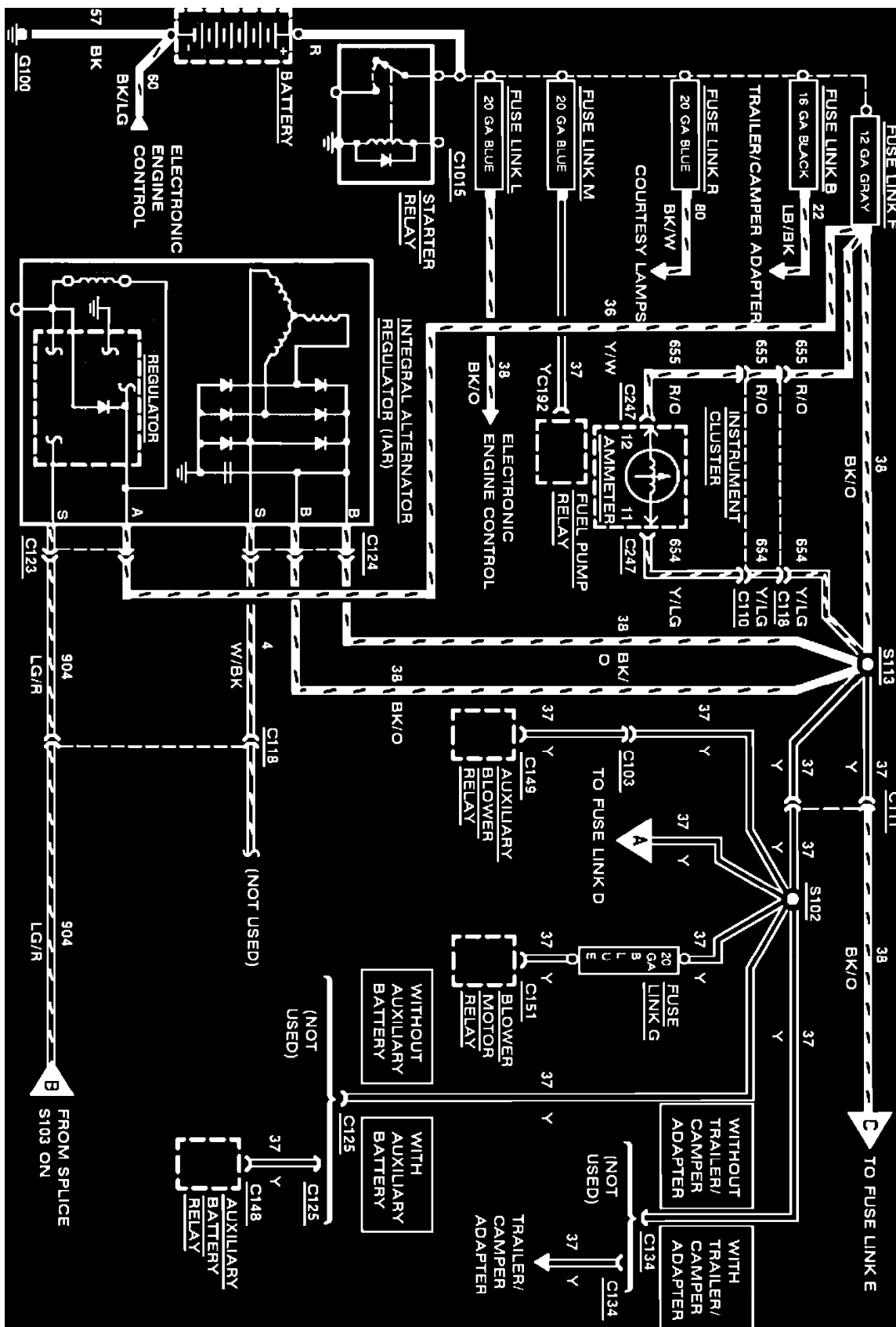
Ground (G201)



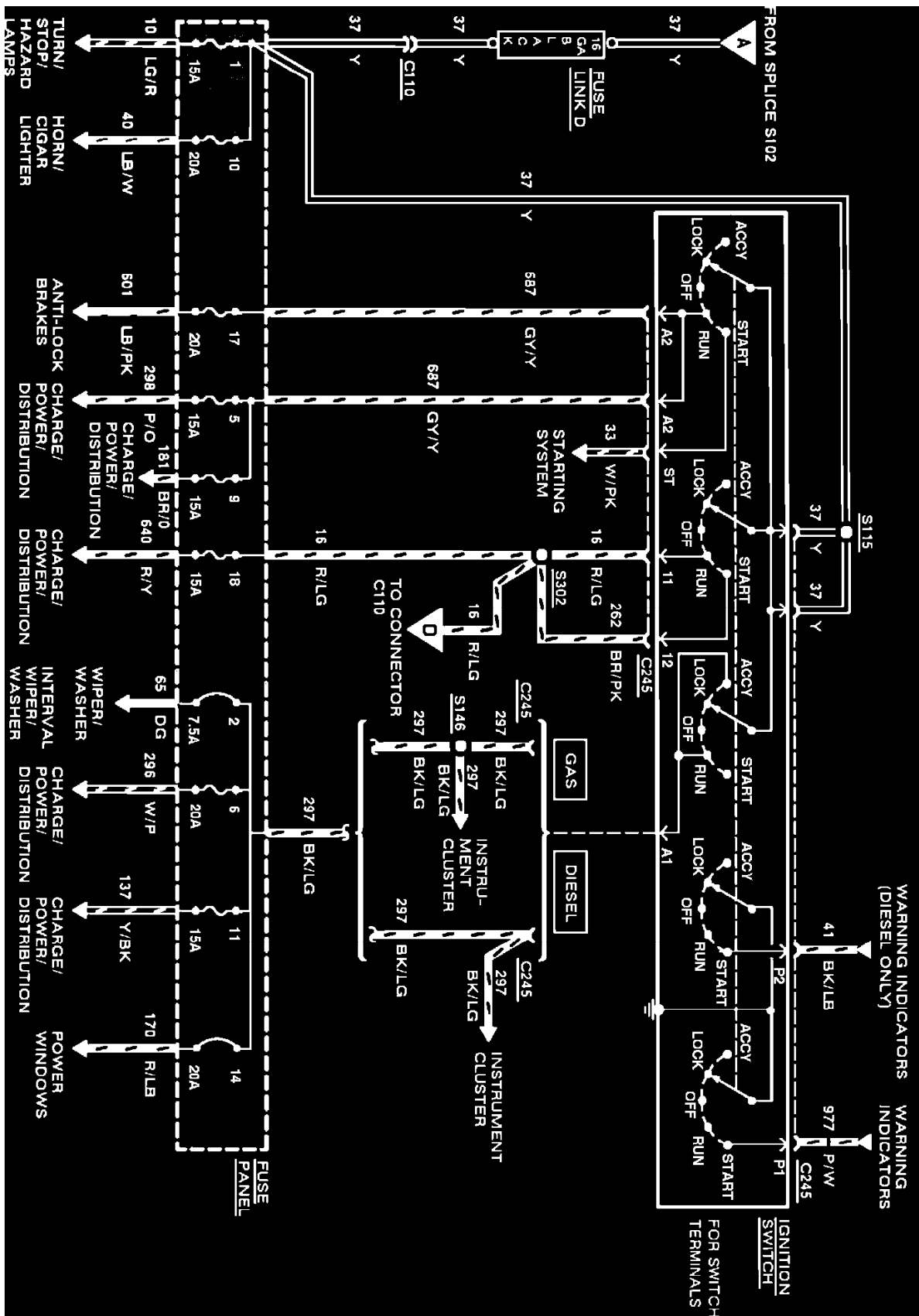
Power Distribution (Main Light Switch)



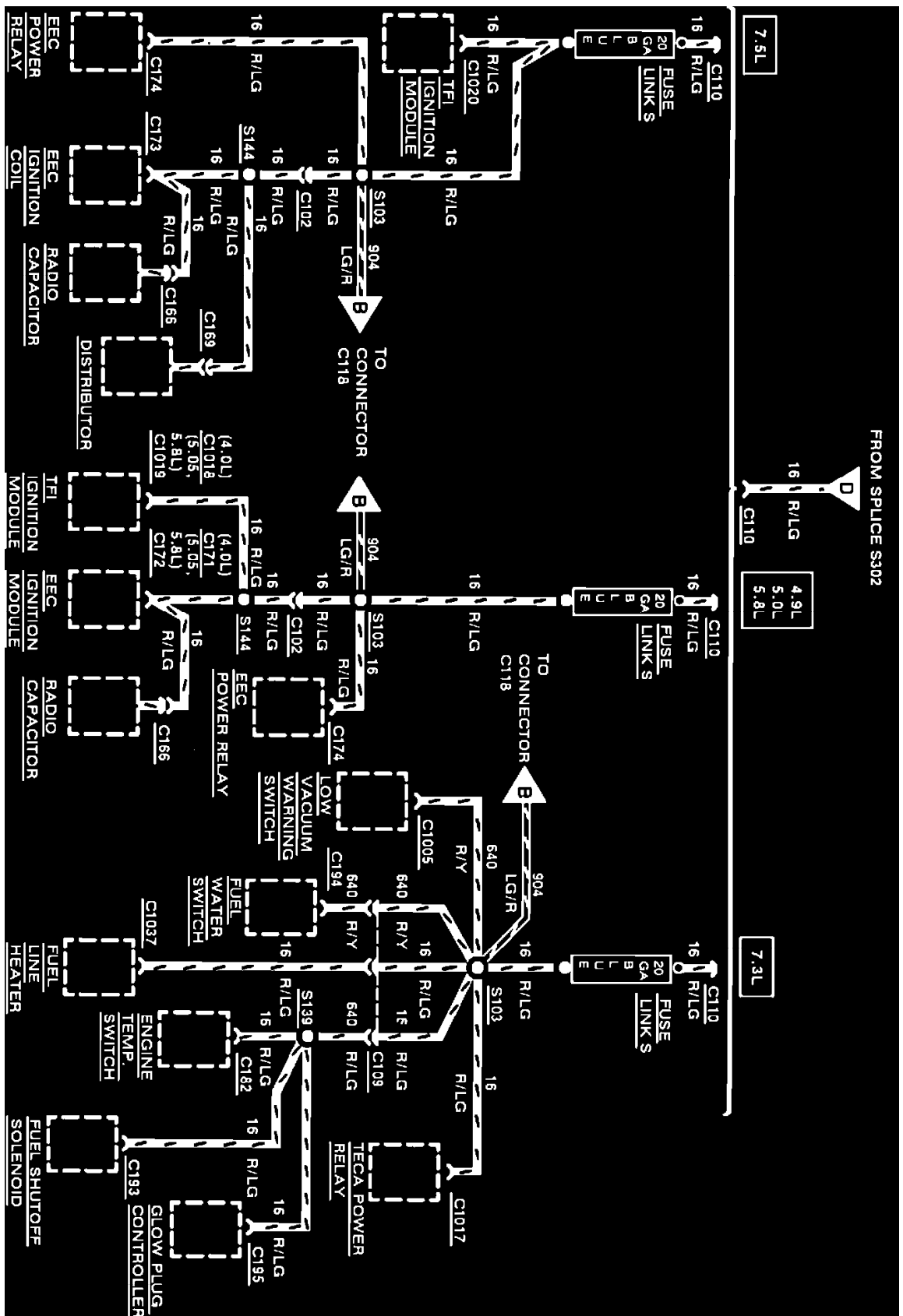
Power Distribution (With Ammeter)



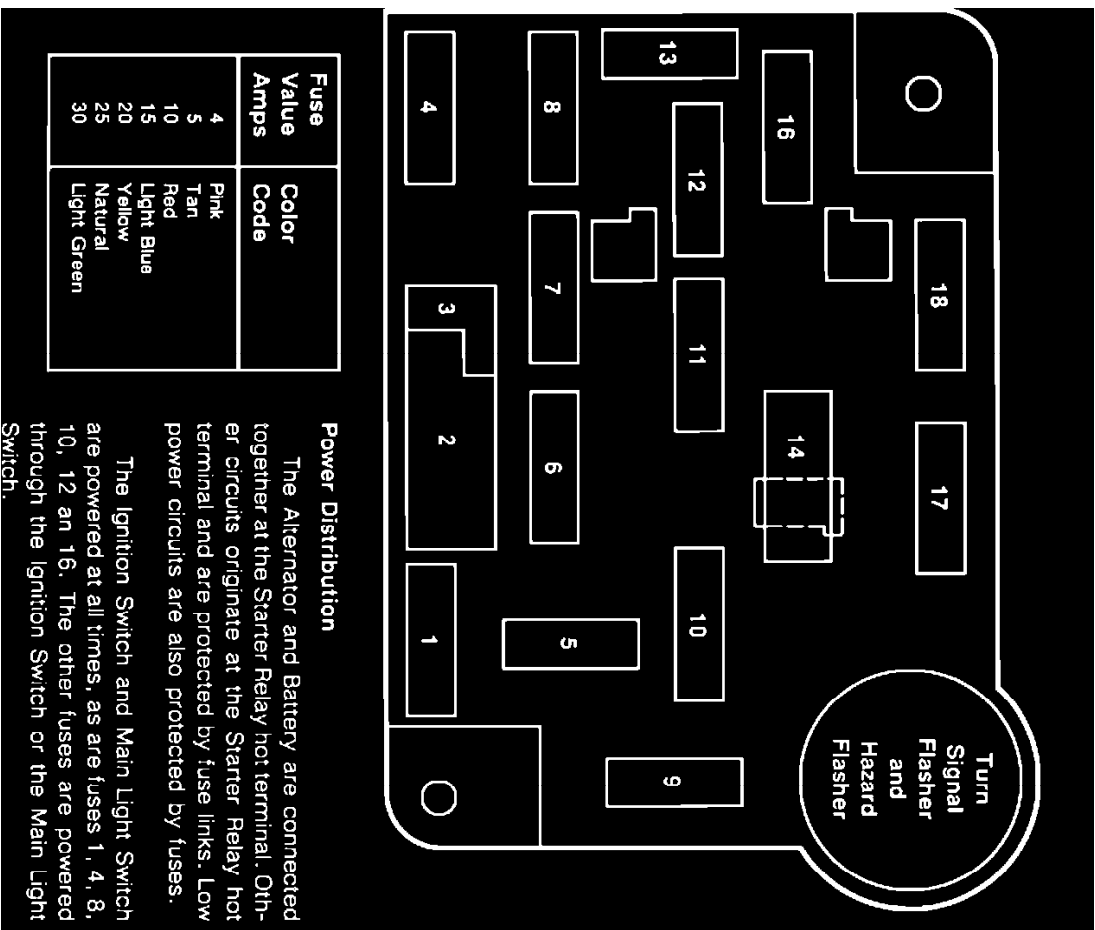
Power Distribution (With Ammeter And Iar)



Power Distribution (Fuse Link D)



Power Distribution (Fuse Link S)



Fuse Value Amps	Color Code
4	Pink
5	Tan
10	Red
15	Light Blue
20	Yellow
25	Natural
30	Light Green

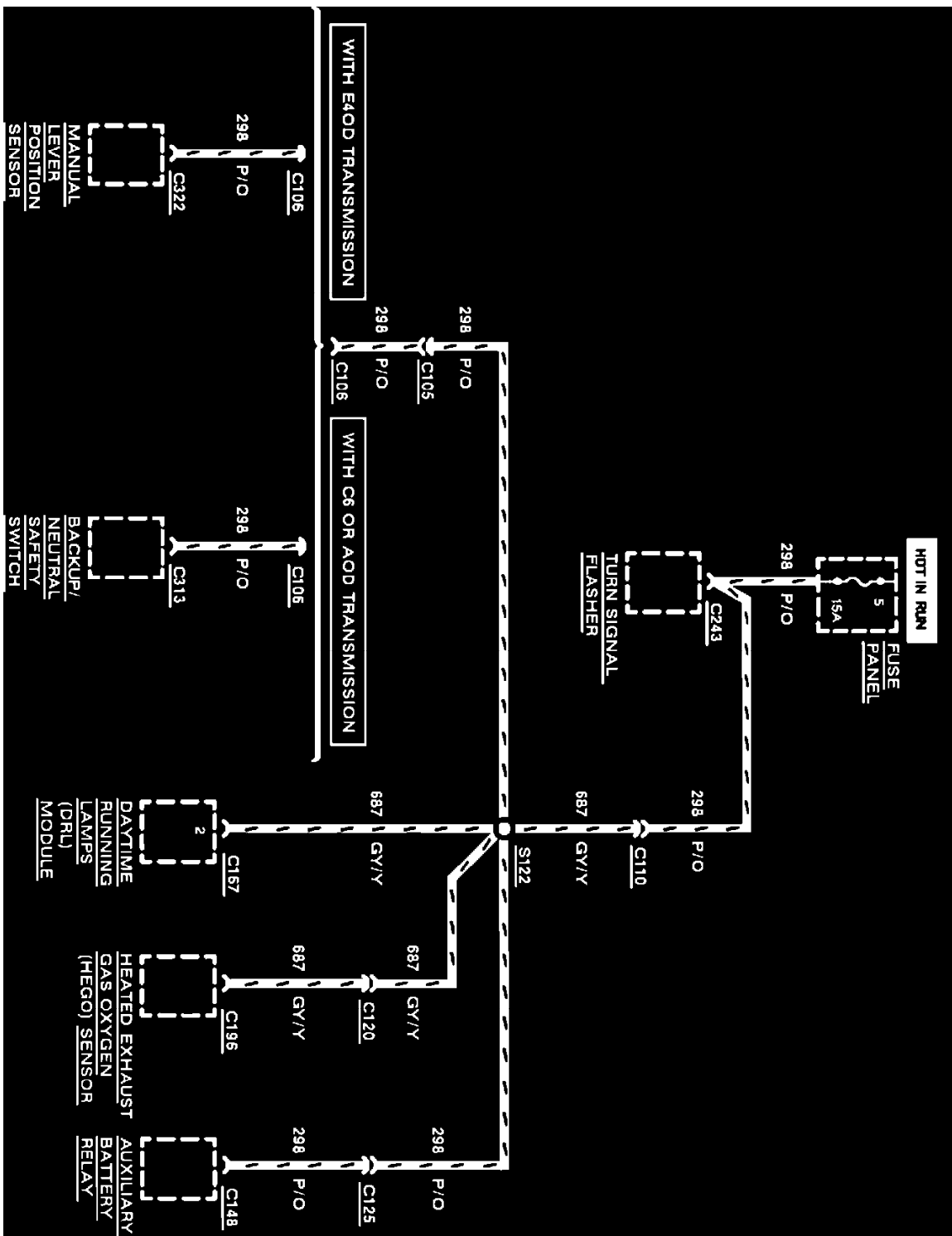
**Power Distribution**

The Alternator and Battery are connected together at the Starter Relay hot terminal. Other circuits originate at the Starter Relay hot terminal and are protected by fuse links. Low power circuits are also protected by fuses.

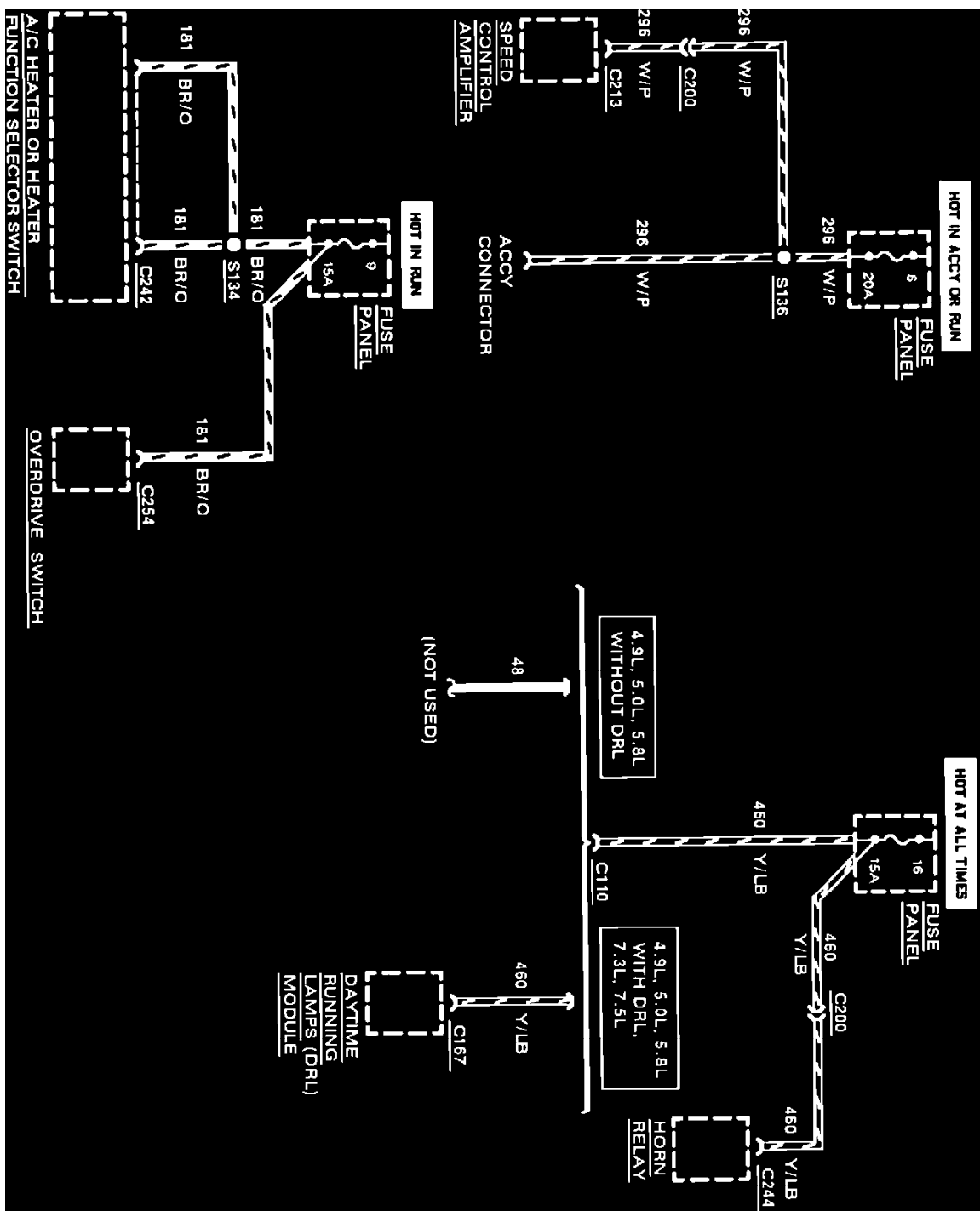
The Ignition Switch and Main Light Switch are powered at all times, as are fuses 1, 4, 8, 10, 12 an 16. The other fuses are powered through the Ignition Switch or the Main Light Switch.

Fuse Position	Amps	Circuits Protected
1	15	Stop/Hazard Lamp, Speed Control
2	7.5 c. b.	Windshield Wiper/Washer, Interval Wiper/Washer
3	—	(Not Used)
4	15	Instrument Panel Illumination, Running Lamps, Radio/Clock Illumination, Heater And A/C Control Illumination
5	15	Turn Signal, Backup Lamps, Dual Battery Relay Coil, Daytime Running Lamps
6	20	Speed Control, Customer Convenience Plug (located above fuse panel-Hot in RUN or ACCY)
7	—	(Not Used)
8	15	Door Lamp, Map Lamp, Radio Memory, Power Door Lock Relays, Cargo Lamp
9	15	A/C Heater Blower Motor Relay Coil, A/C Clutch, Overdrive Cancel
10	20	Cigar Lighter
11	15	Radio and Clock, Premium Sound
12	20 c. b.	Power Door Locks
13	5	Instrument Panel Illumination Lamps
14	20 c. b.	Power Windows
15	—	(Not Used)
16	15	Horn, Speed Control, Daytime Running Lamps
17	20	Anti-lock Brakes
18	15	Instrument Panel Warning Lamps, Warning Chime, Diesel Fuel Tank Selector Switch (B+)

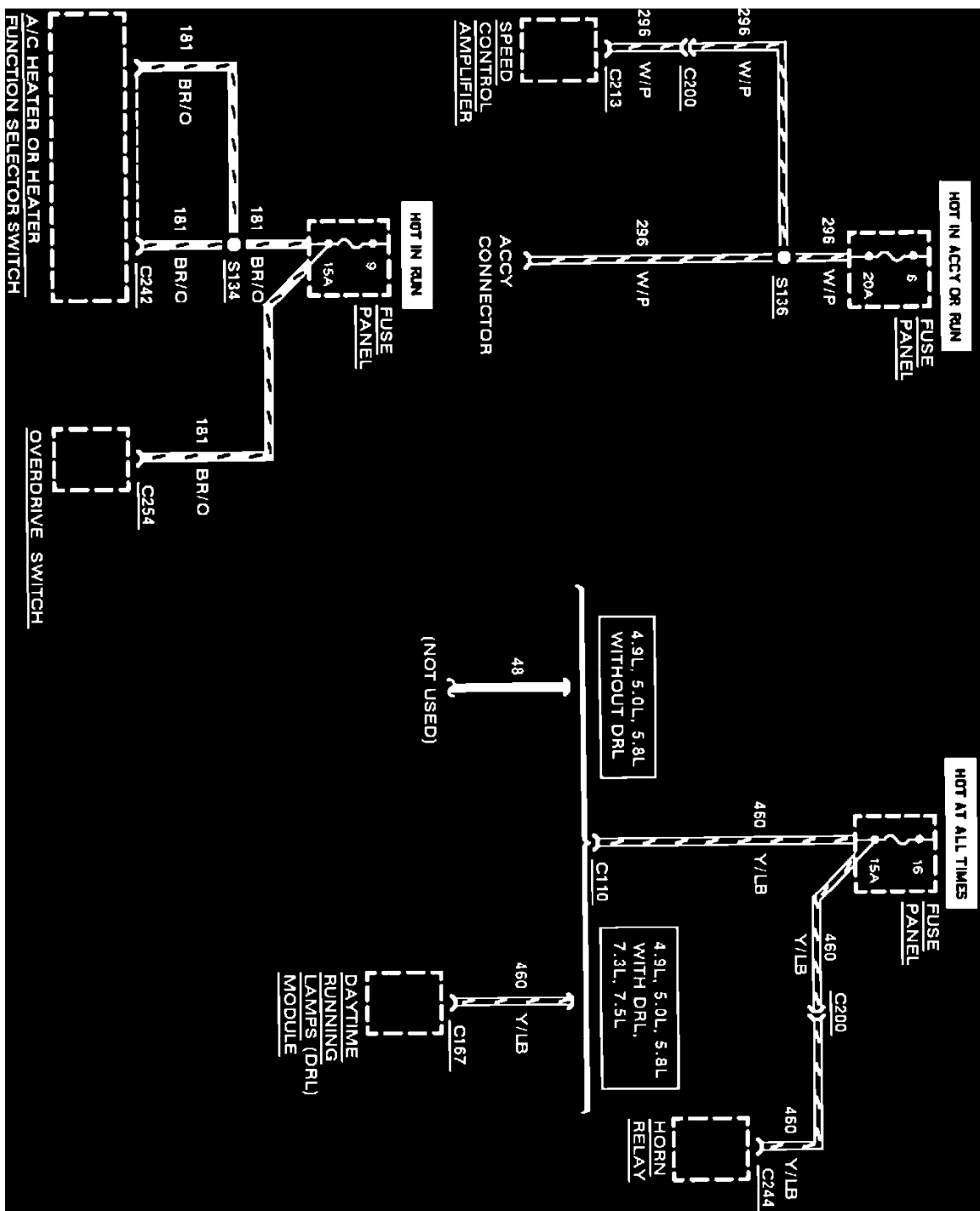
**Fuse Panel**



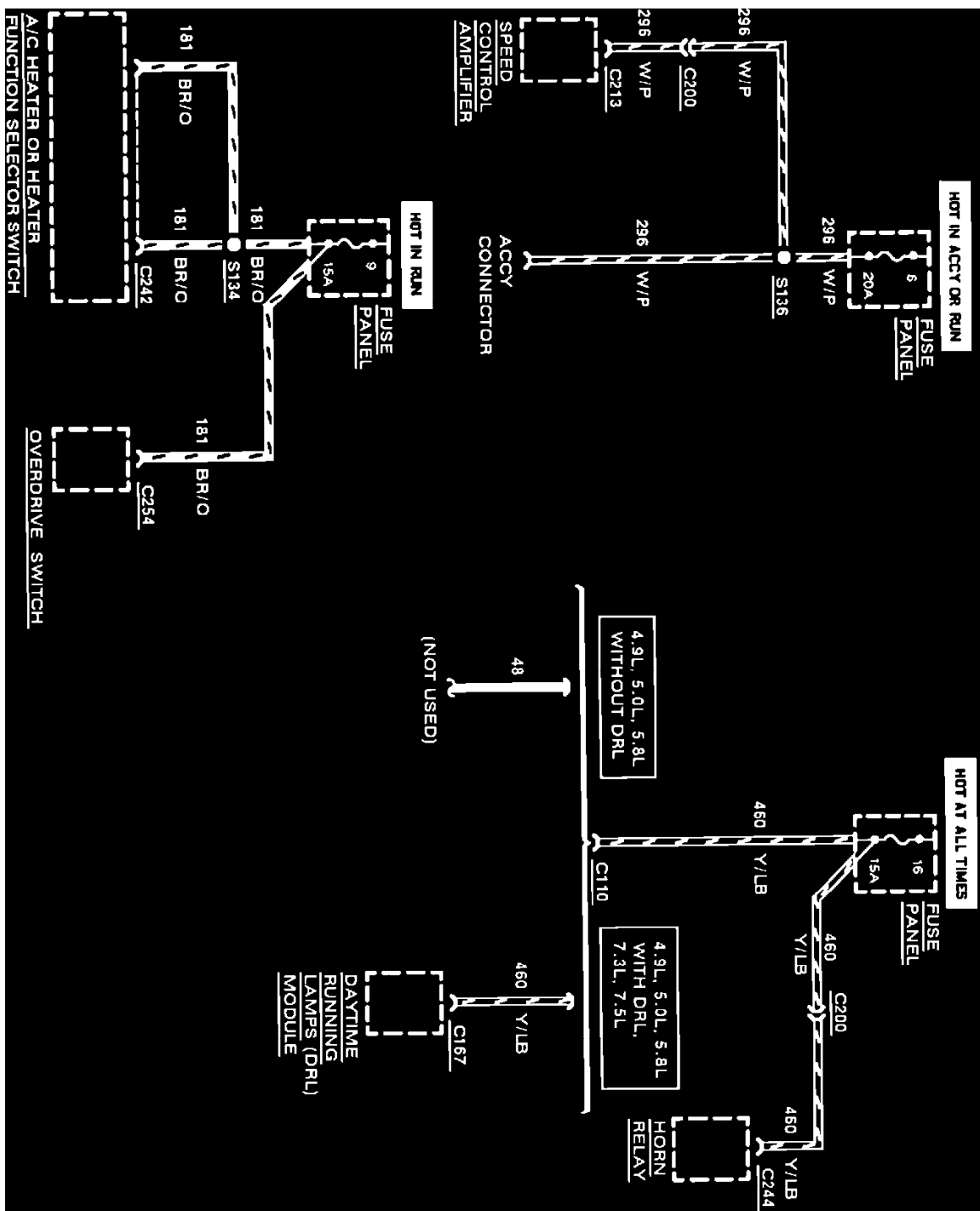
Power Distribution (Fuse 5)



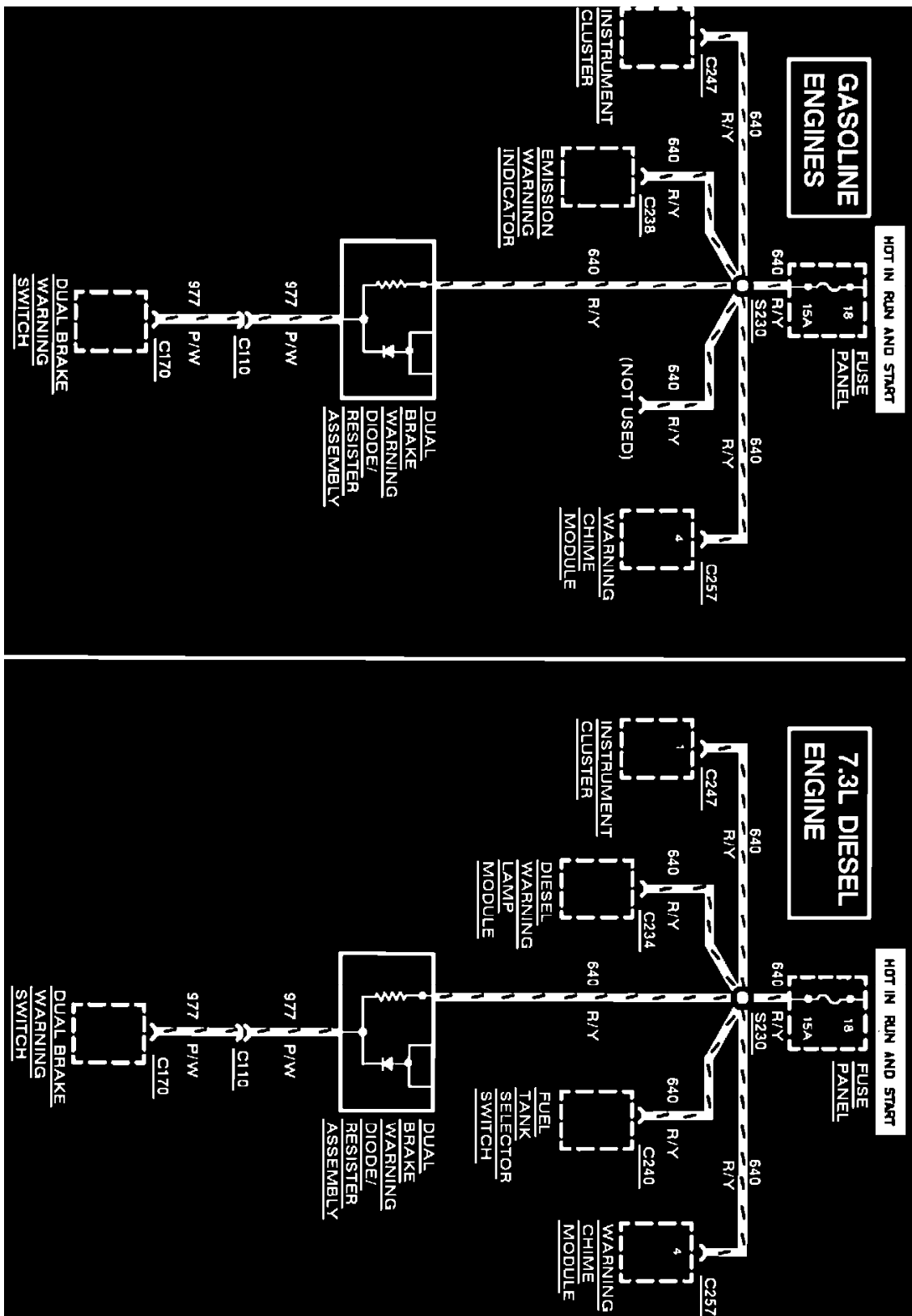
Power Distribution (Fuses 6, 9, And 16)



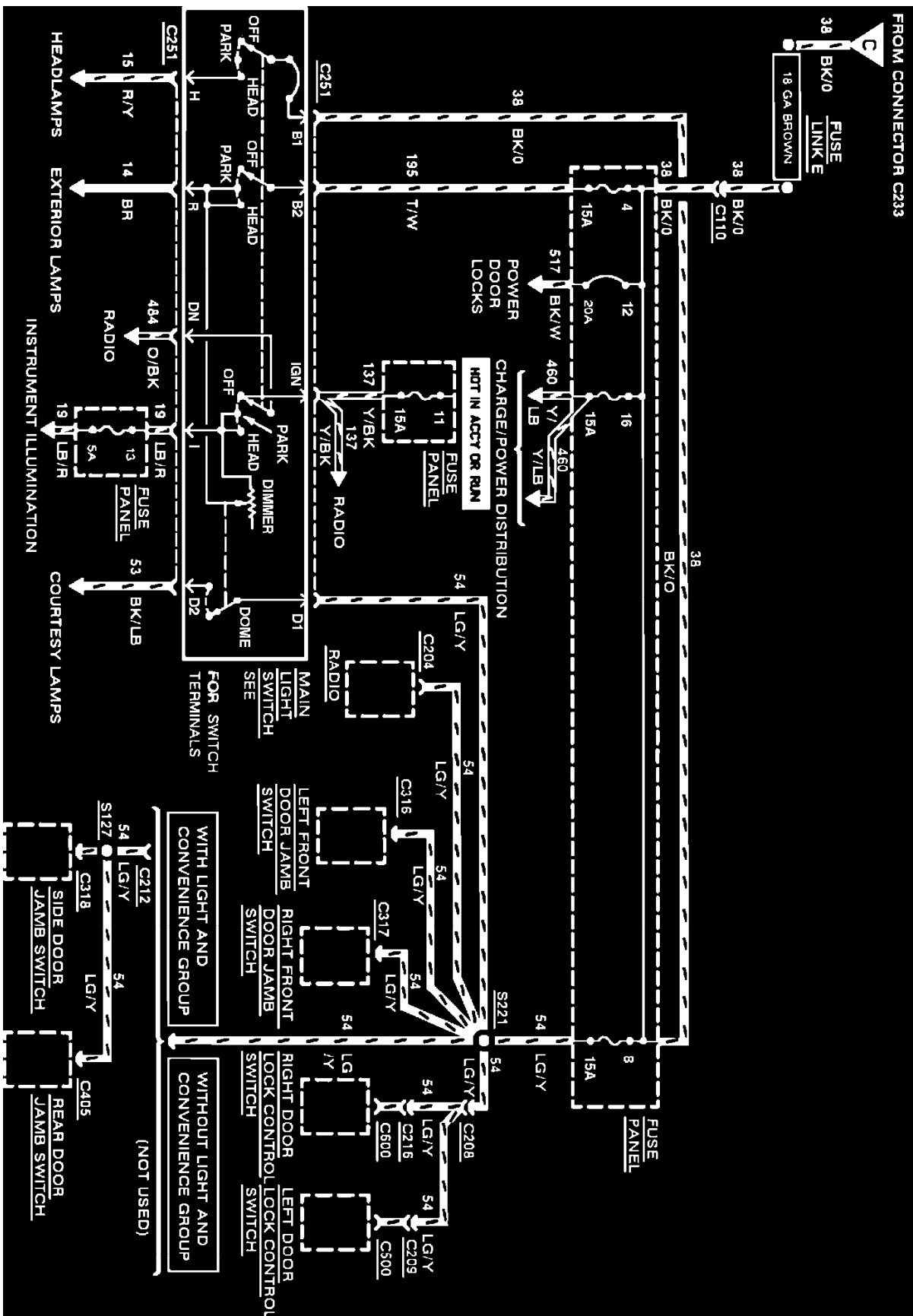
Power Distribution (Fuses 6, 9, And 16)



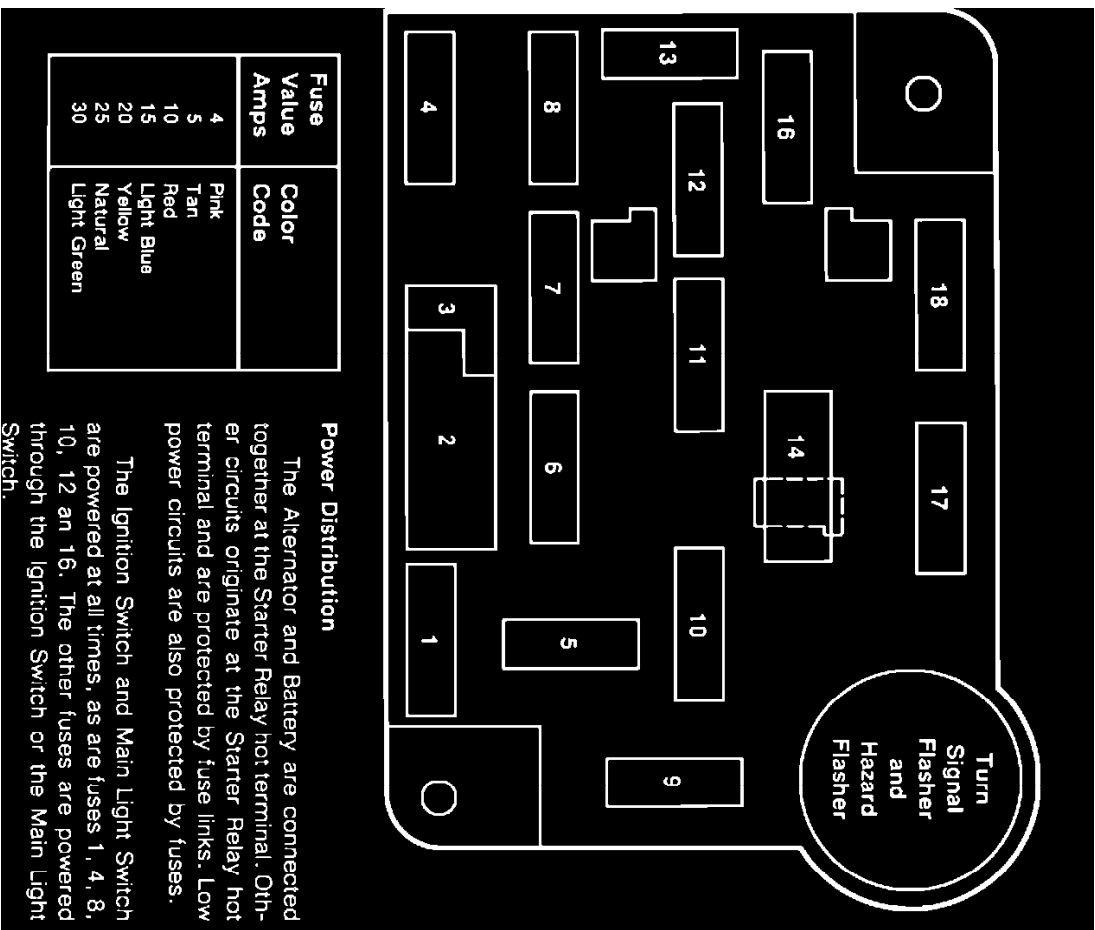
Power Distribution (Fuses 6, 9, And 16)



Power Distribution (Fuse 18)



Power Distribution (Main Light Switch)



Fuse Value Amps	Color Code
4	Pink
5	Tan
10	Red
15	Light Blue
20	Yellow
25	Natural
30	Light Green

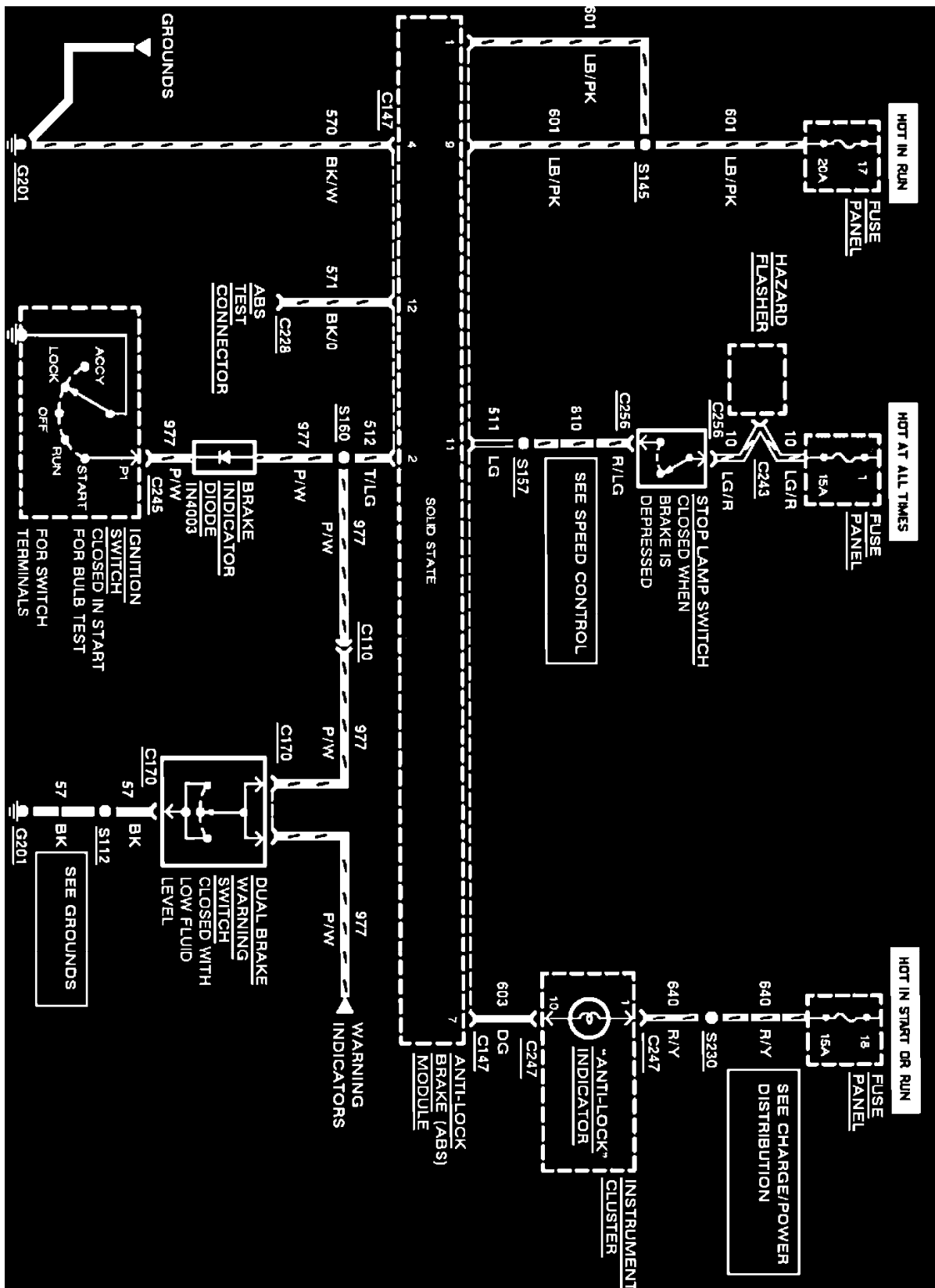
**Power Distribution**

The Alternator and Battery are connected together at the Starter Relay hot terminal. Other circuits originate at the Starter Relay hot terminal and are protected by fuse links. Low power circuits are also protected by fuses.

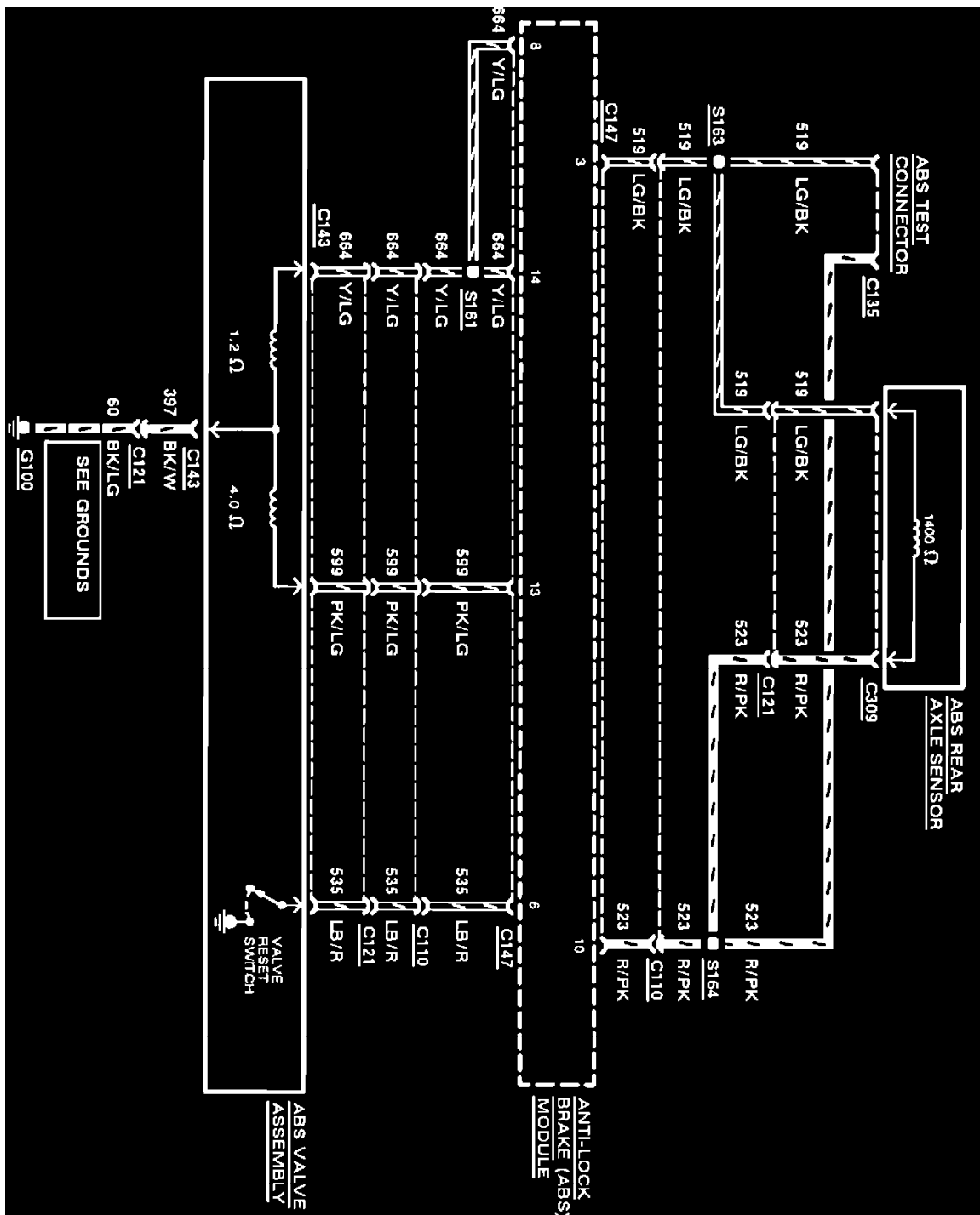
The Ignition Switch and Main Light Switch are powered at all times, as are fuses 1, 4, 8, 10, 12 and 16. The other fuses are powered through the Ignition Switch or the Main Light Switch.

Fuse Position	Amps	Circuits Protected
1	15	Stop/Hazard Lamp, Speed Control
2	7.5 c. b.	Windshield Wiper/Washer, Interval Wiper/Washer
3	—	(Not Used)
4	15	Instrument Panel Illumination, Running Lamps, Radio/Clock Illumination, Heater And A/C Control Illumination
5	15	Turn Signal, Backup Lamps, Dual Battery Relay Coil, Daytime Running Lamps
6	20	Speed Control, Customer Convenience Plug (located above fuse panel-Hot in RUN or ACCY)
7	—	(Not Used)
8	15	Door Lamp, Map Lamp, Radio Memory, Power Door Lock Relays, Cargo Lamp
9	15	A/C Heater Blower Motor Relay Coil, A/C Clutch, Overdrive Cancel
10	20	Cigar Lighter
11	15	Radio and Clock, Premium Sound
12	20 c. b.	Power Door Locks
13	5	Instrument Panel Illumination Lamps
14	20 c. b.	Power Windows
15	—	(Not Used)
16	15	Horn, Speed Control, Daytime Running Lamps
17	20	Anti-lock Brakes
18	15	Instrument Panel Warning Lamps, Warning Chime, Diesel Fuel Tank Selector Switch (B+)

**Fuse Panel**

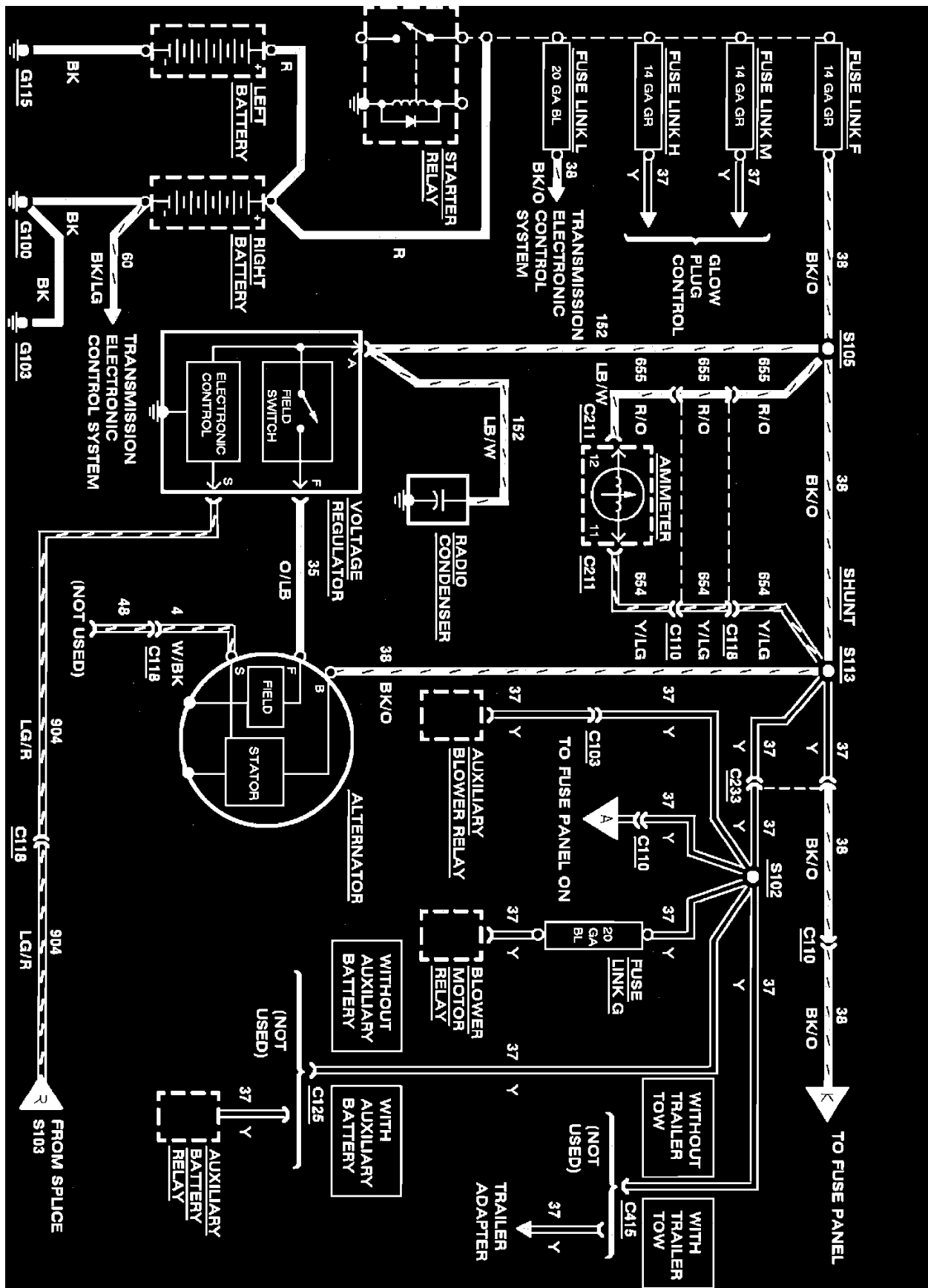


Anti-Lock Brakes



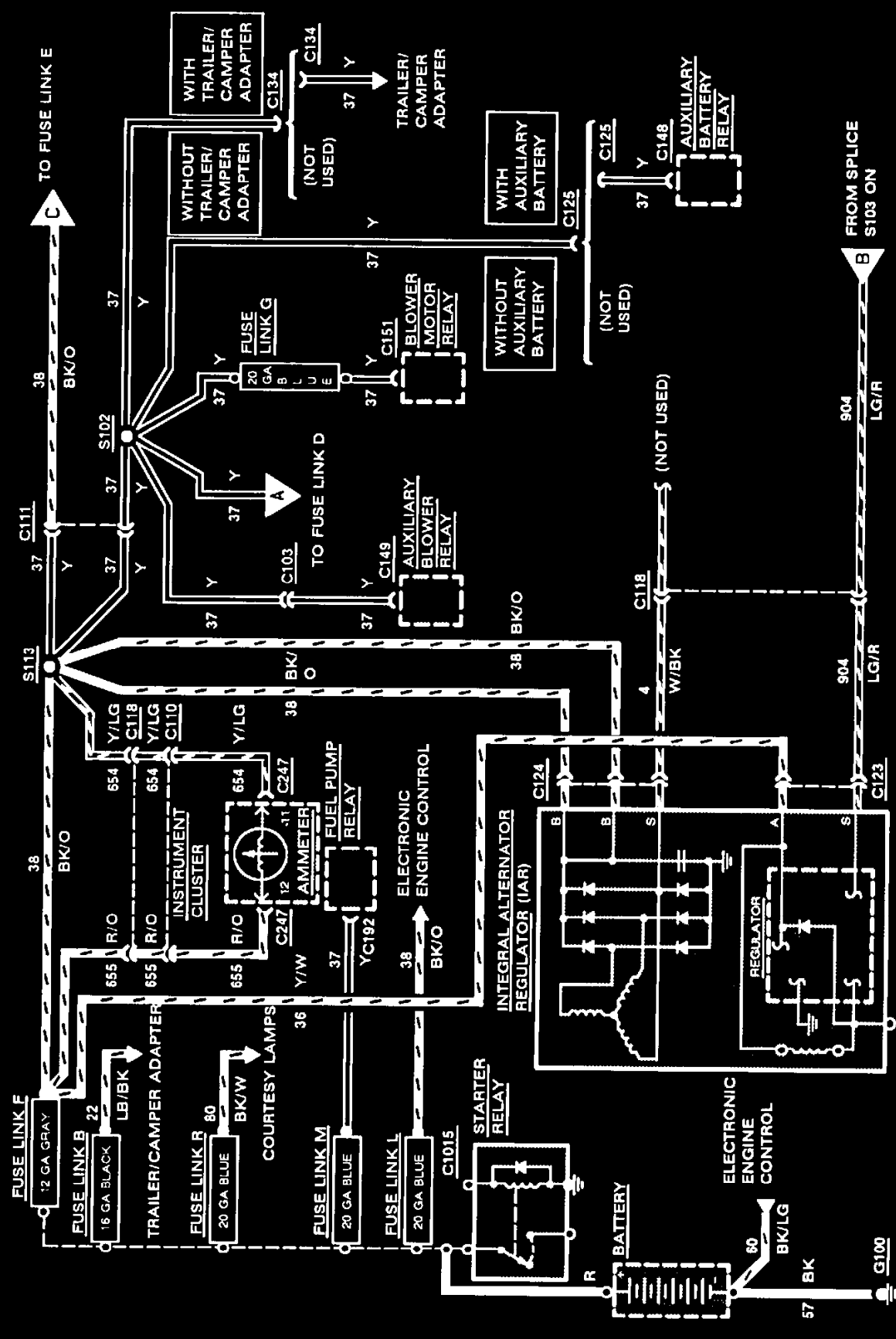
Anti-Lock Brakes

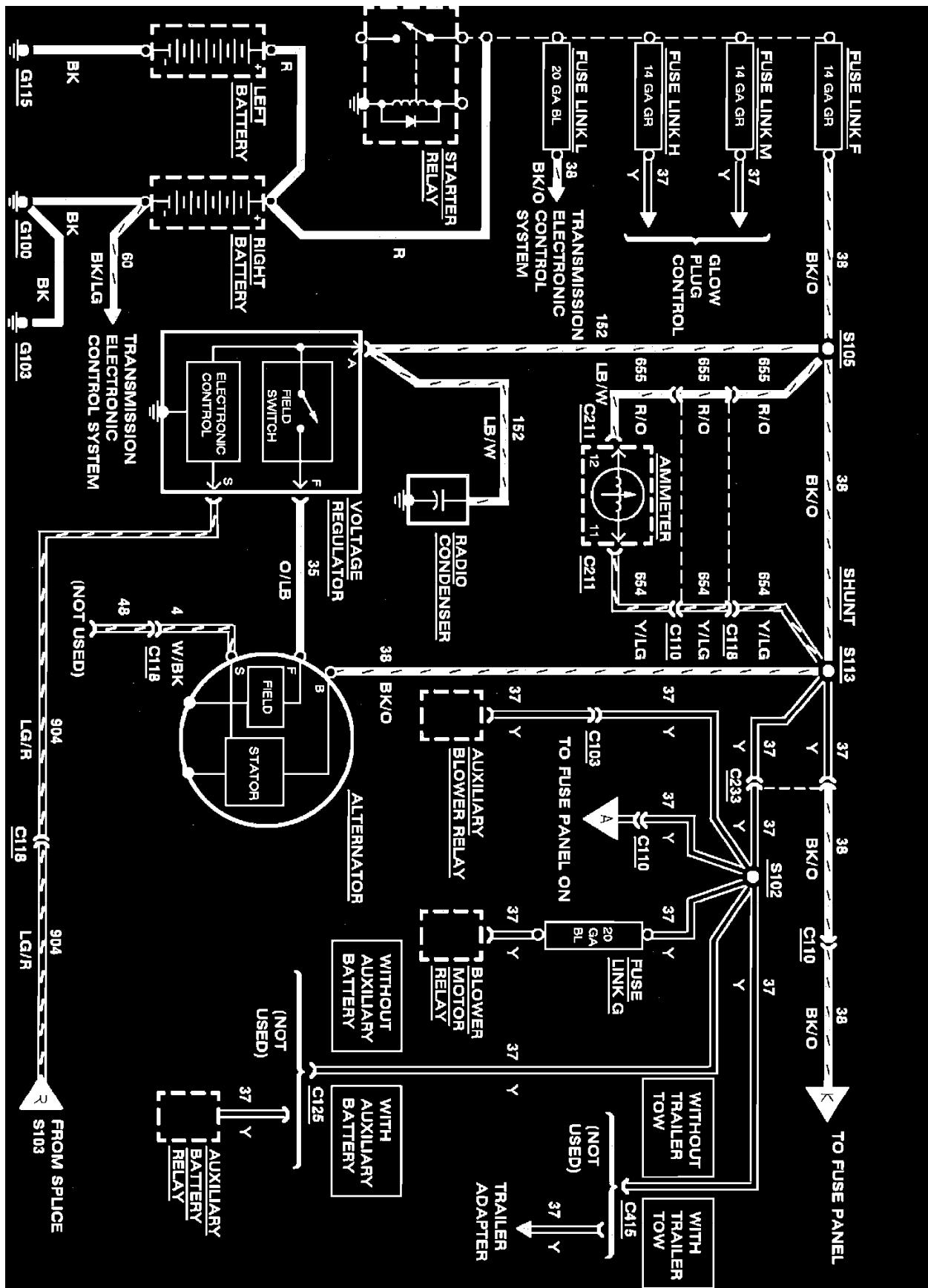
System Diagram



Charging System

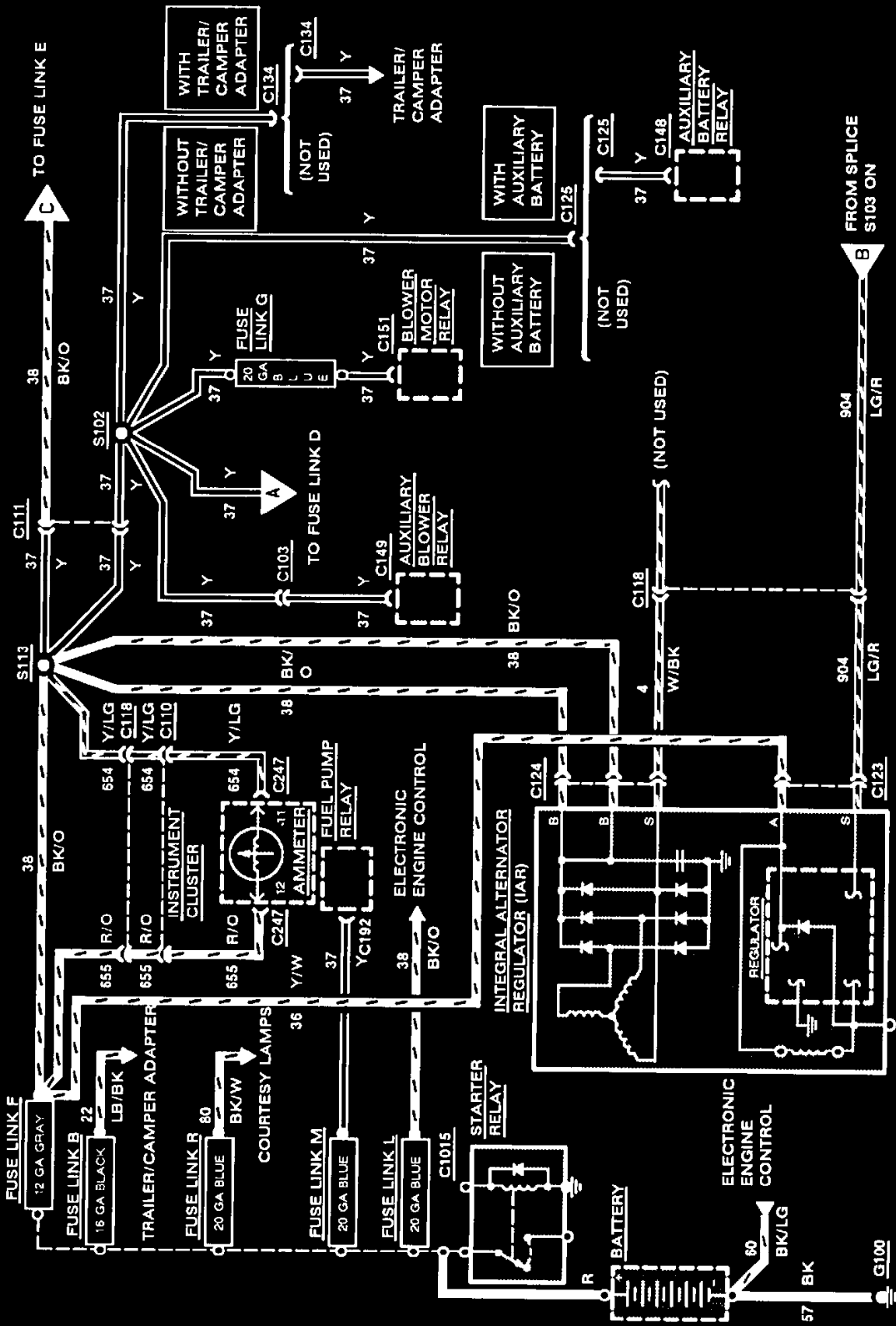
# CHARGE/POWER DISTRIBUTION (WITH AMMETER AND IAR)

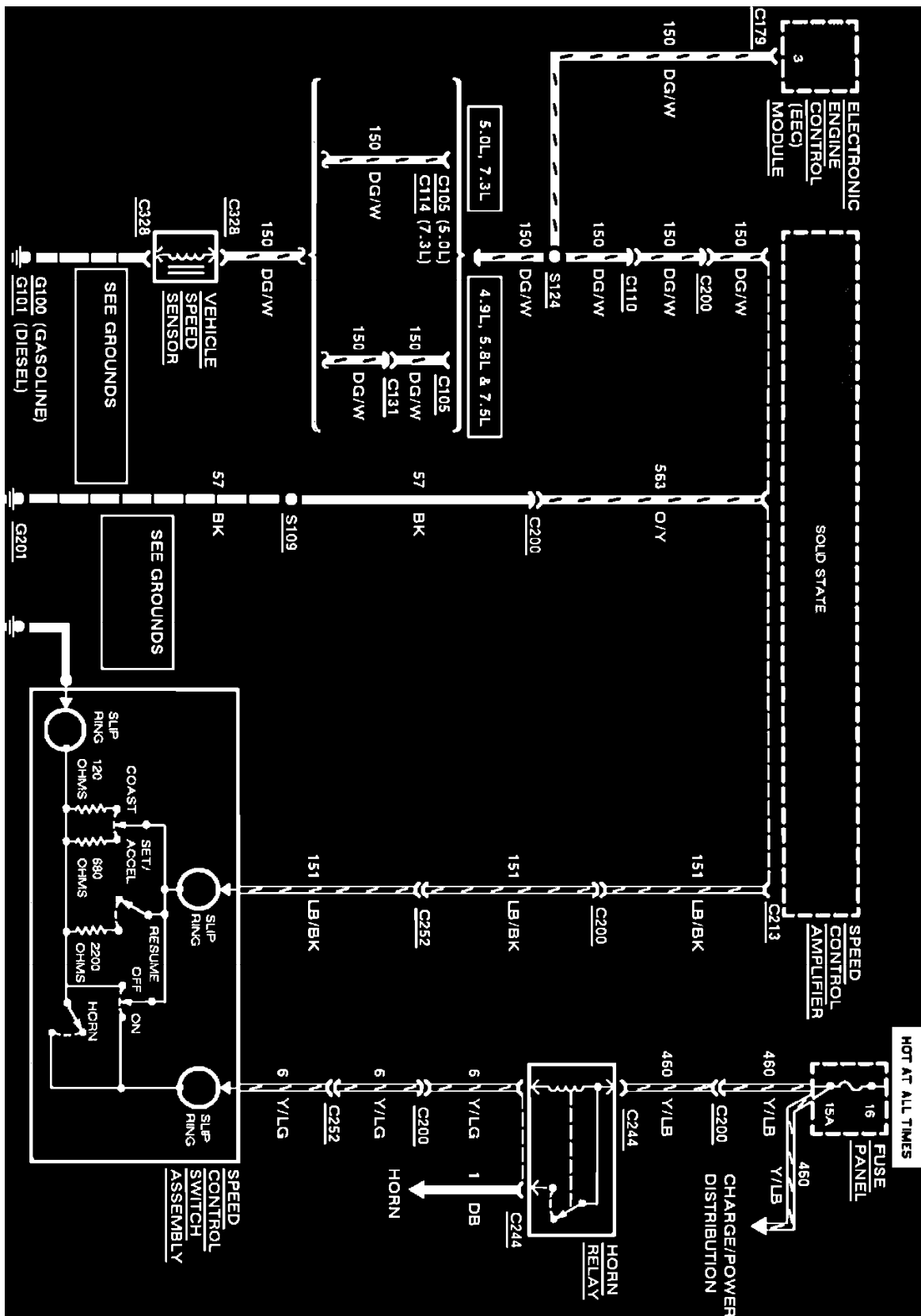




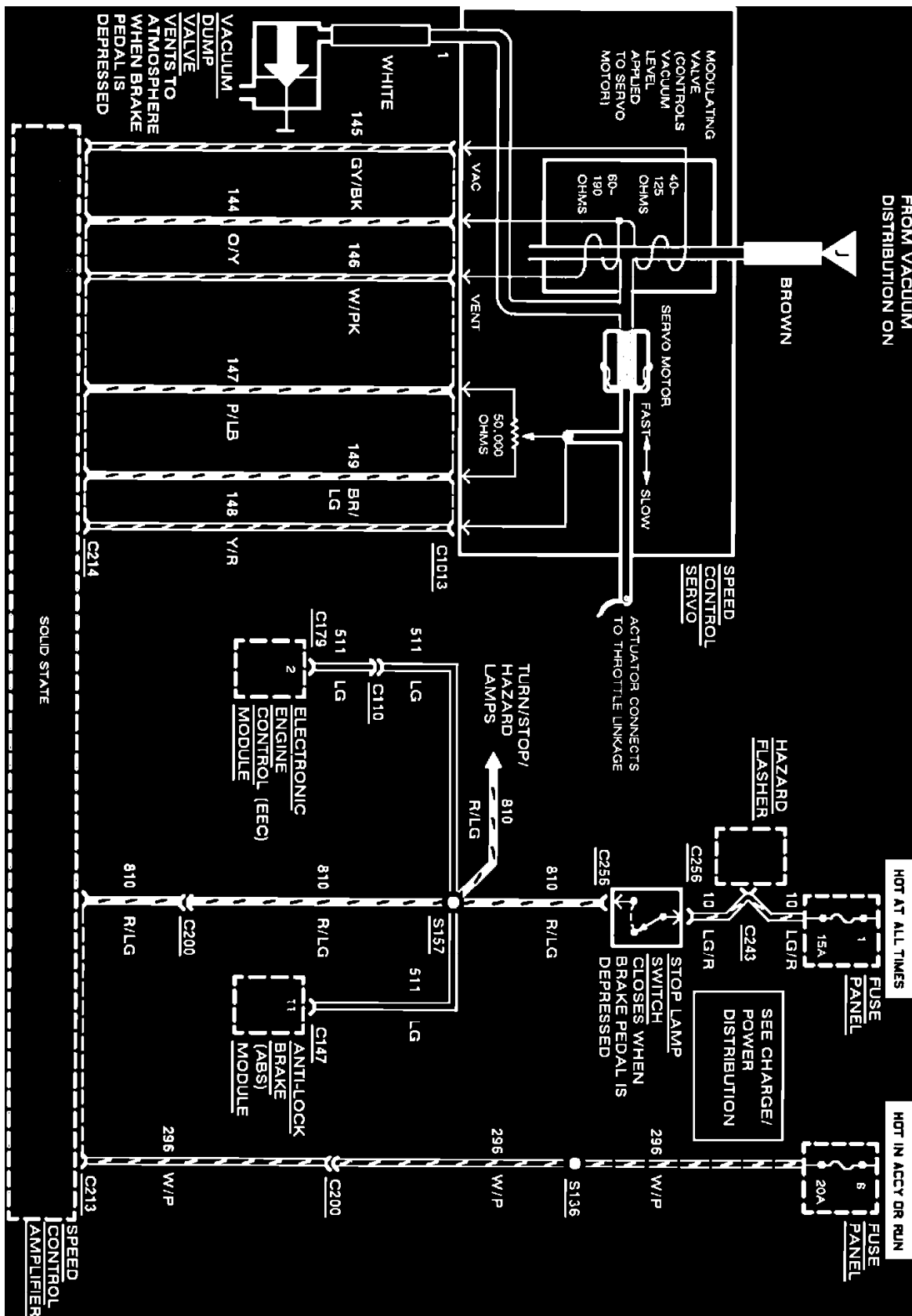
Charging System

# CHARGE/POWER DISTRIBUTION (WITH AMMETER AND IAR)





Cruise Control



Cruise Control

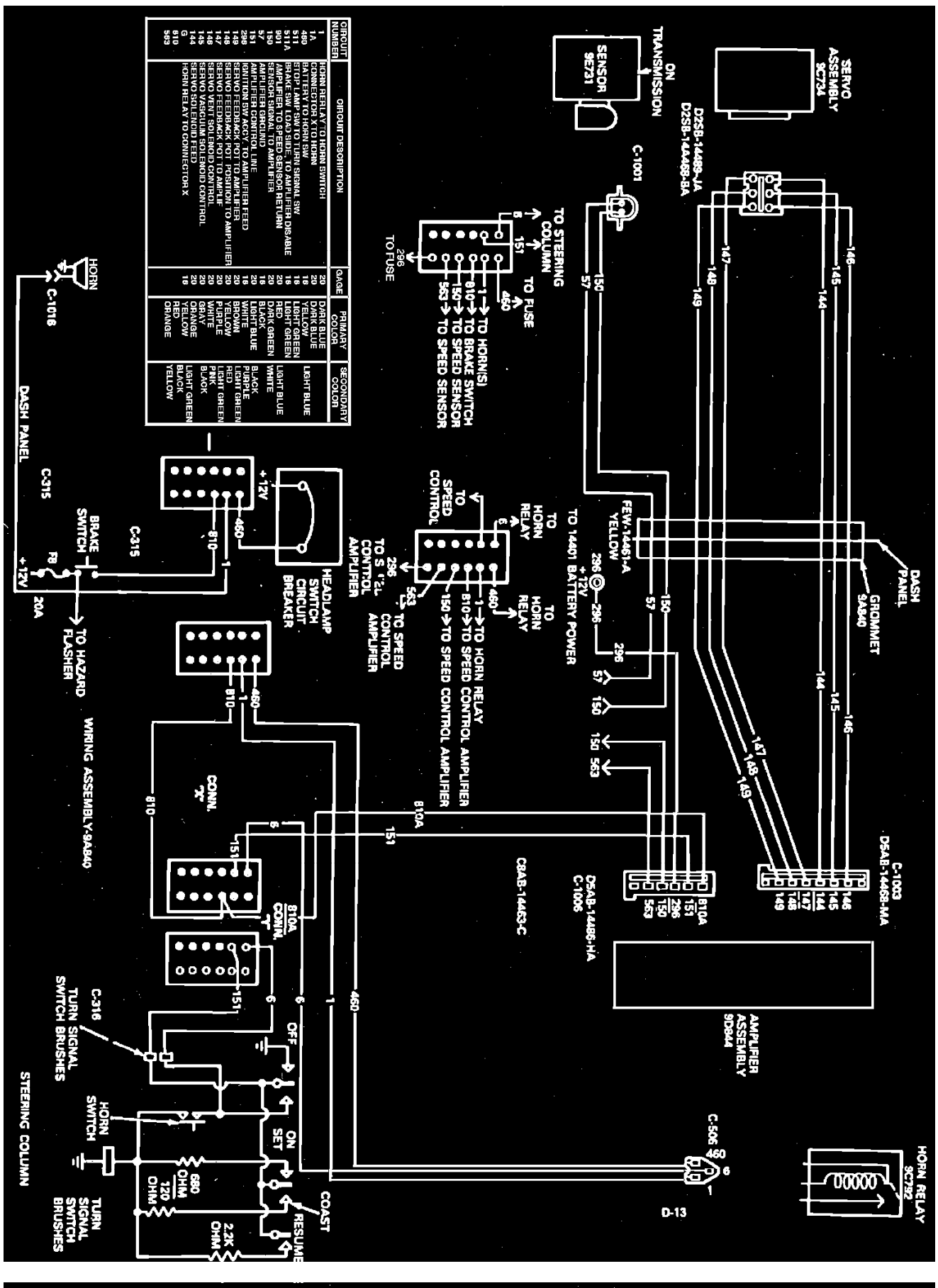
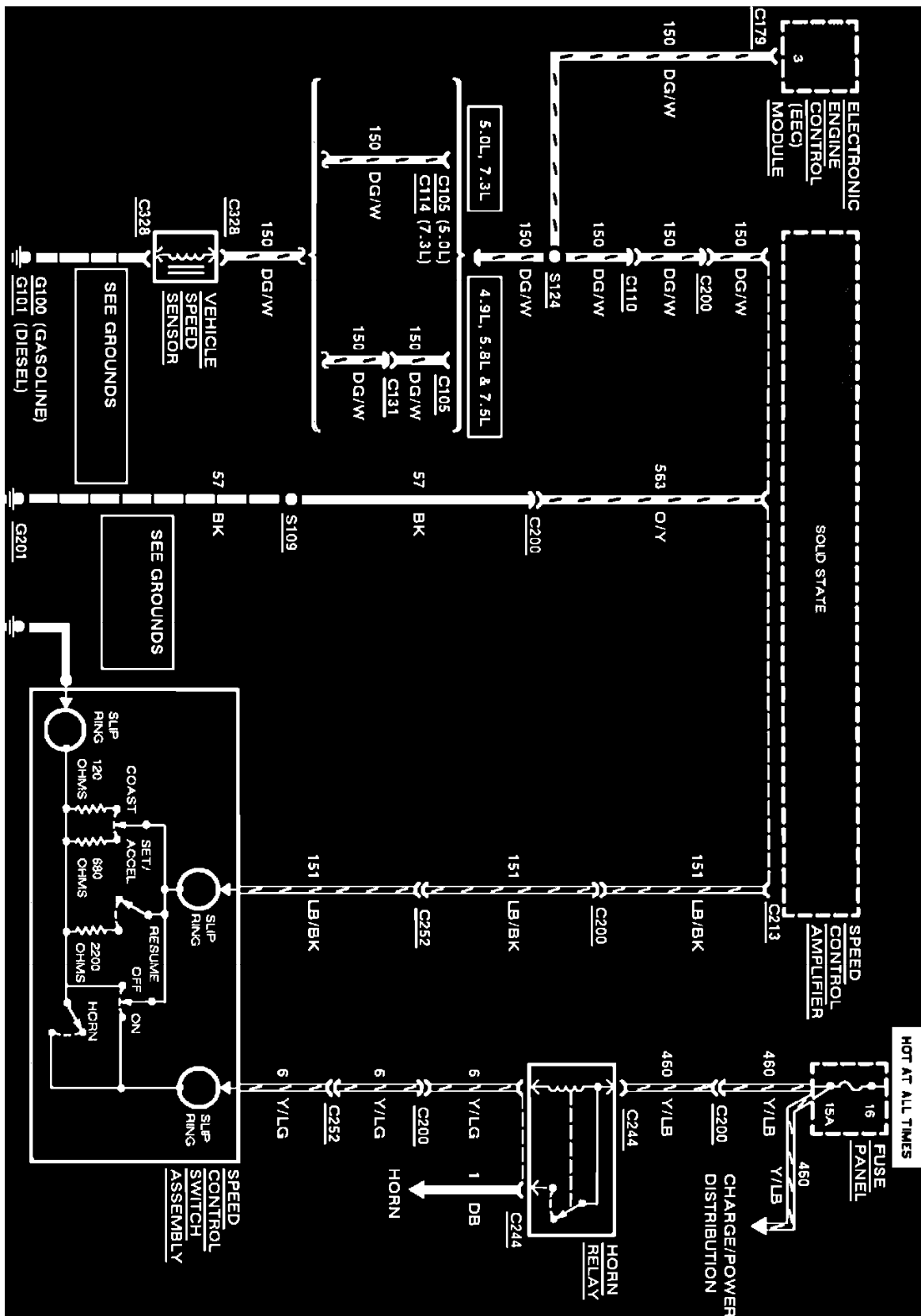
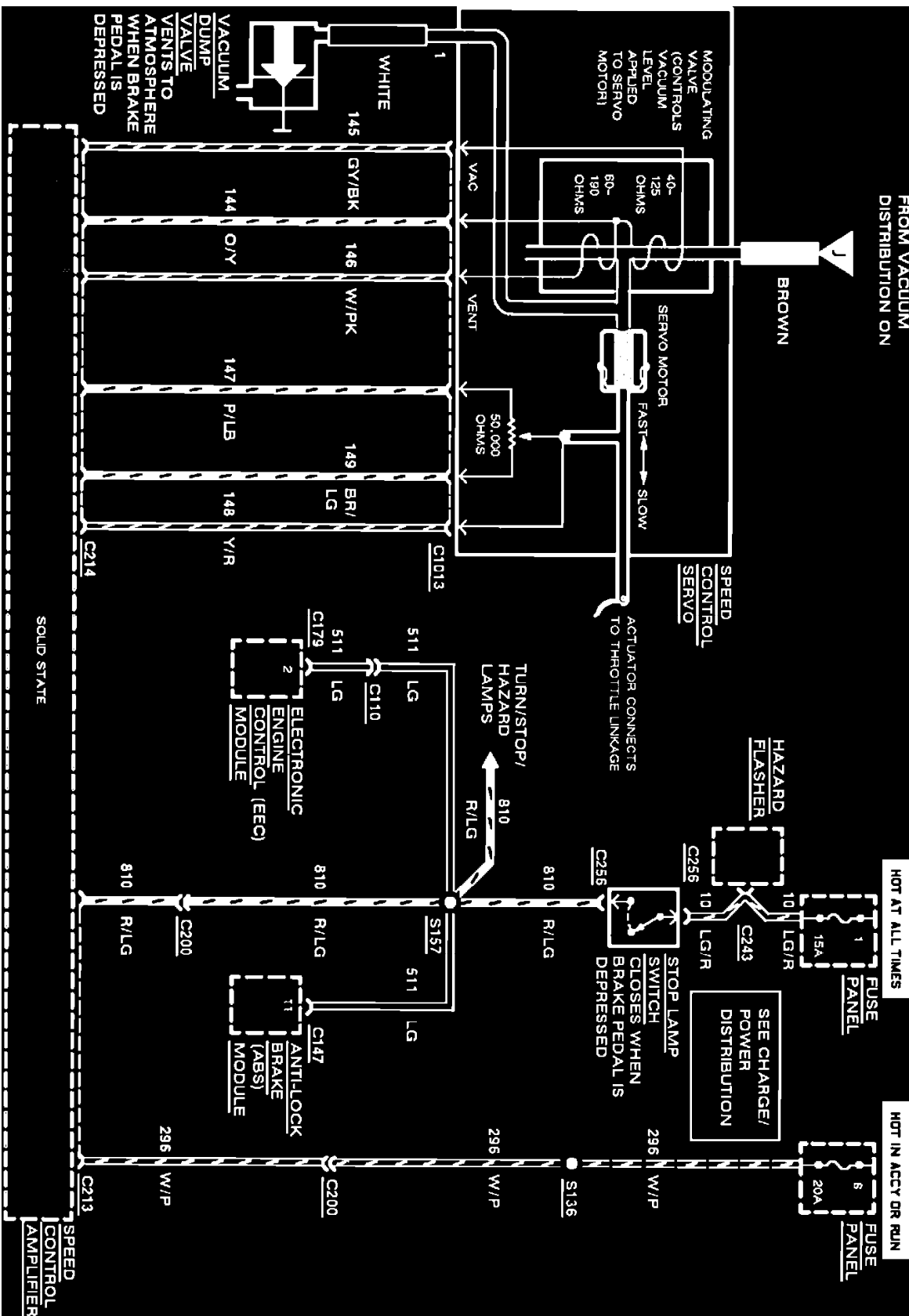


Fig. 3 Speed Control Wiring Diagram



Cruise Control



Cruise Control

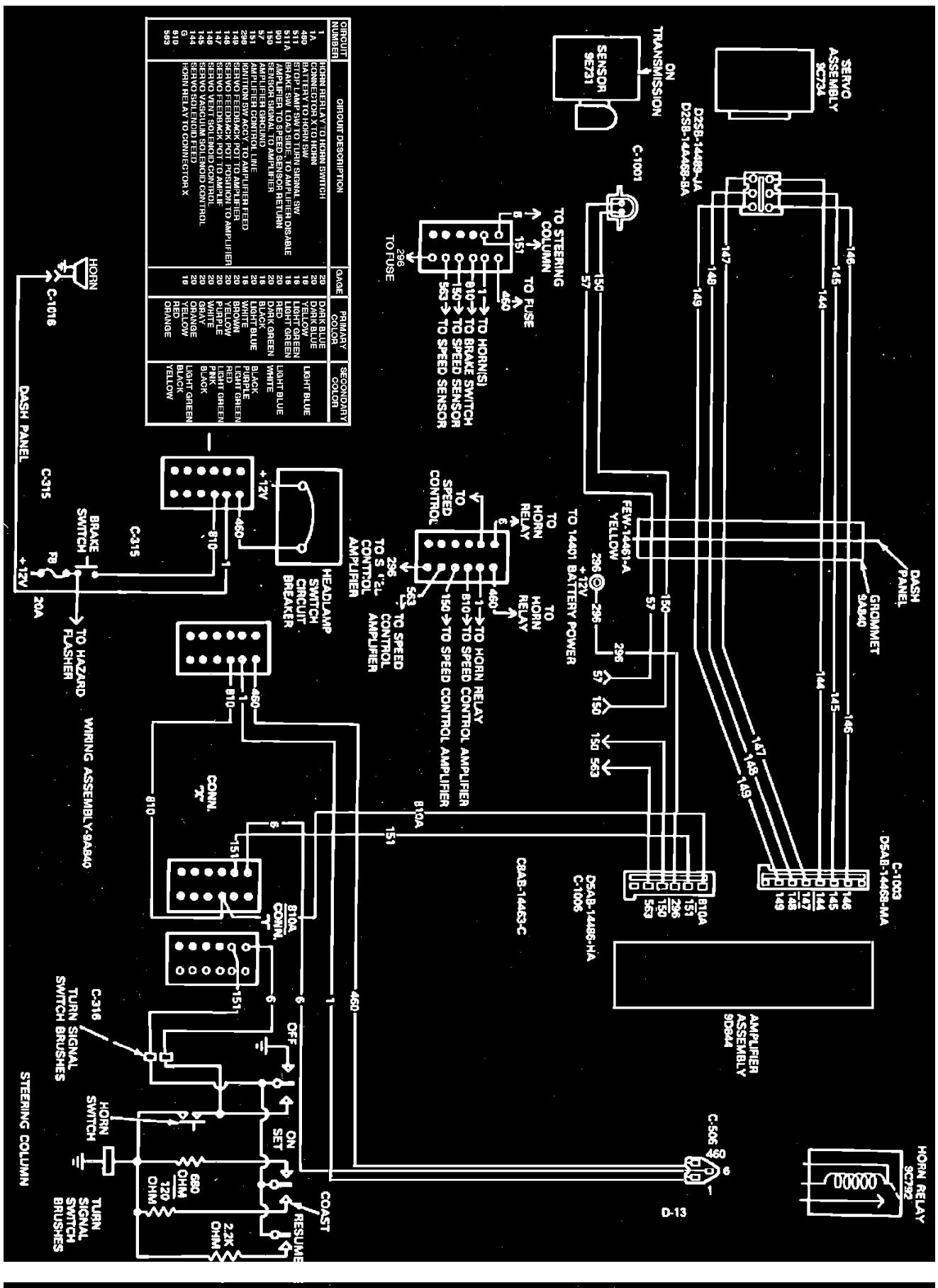
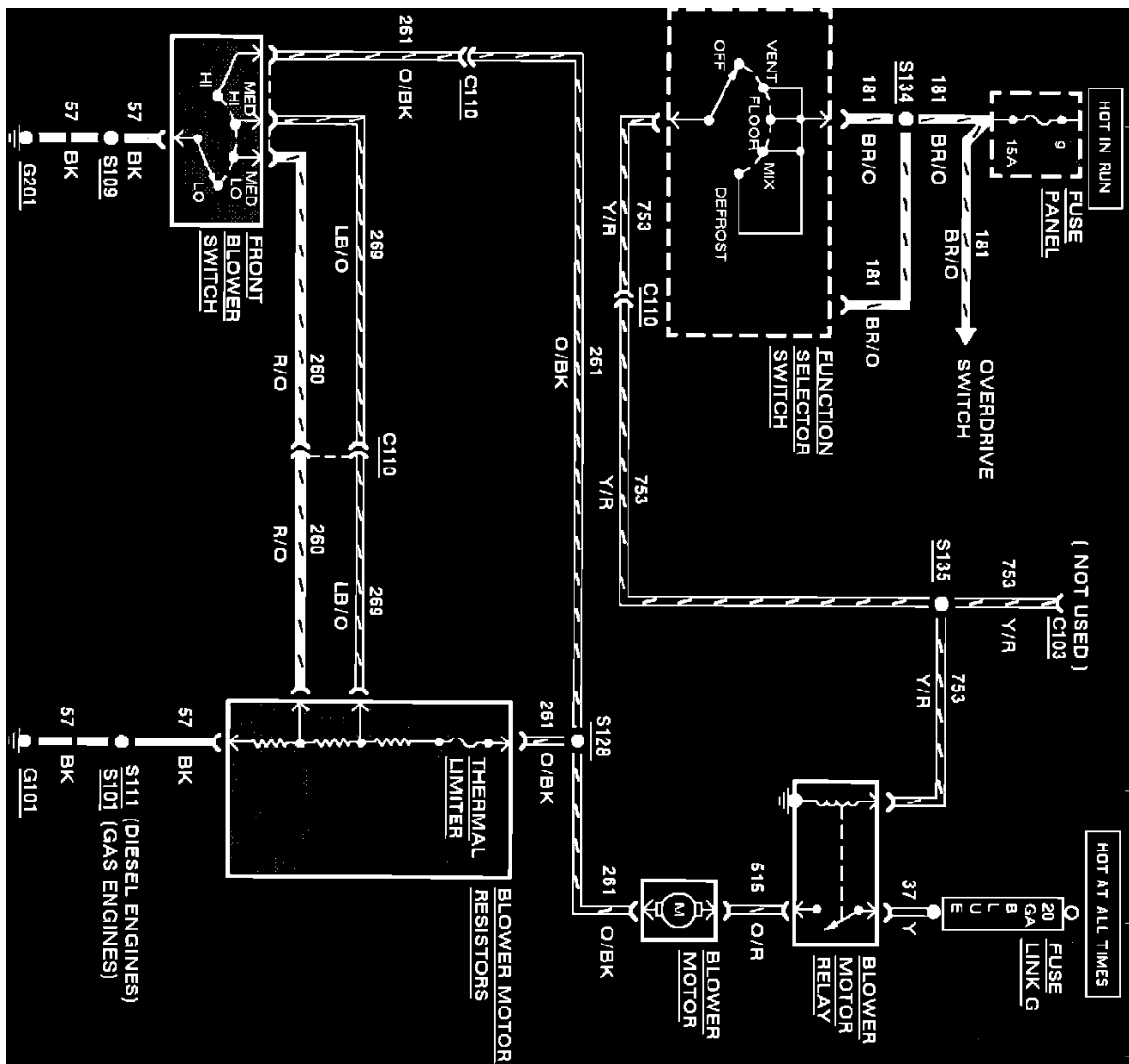
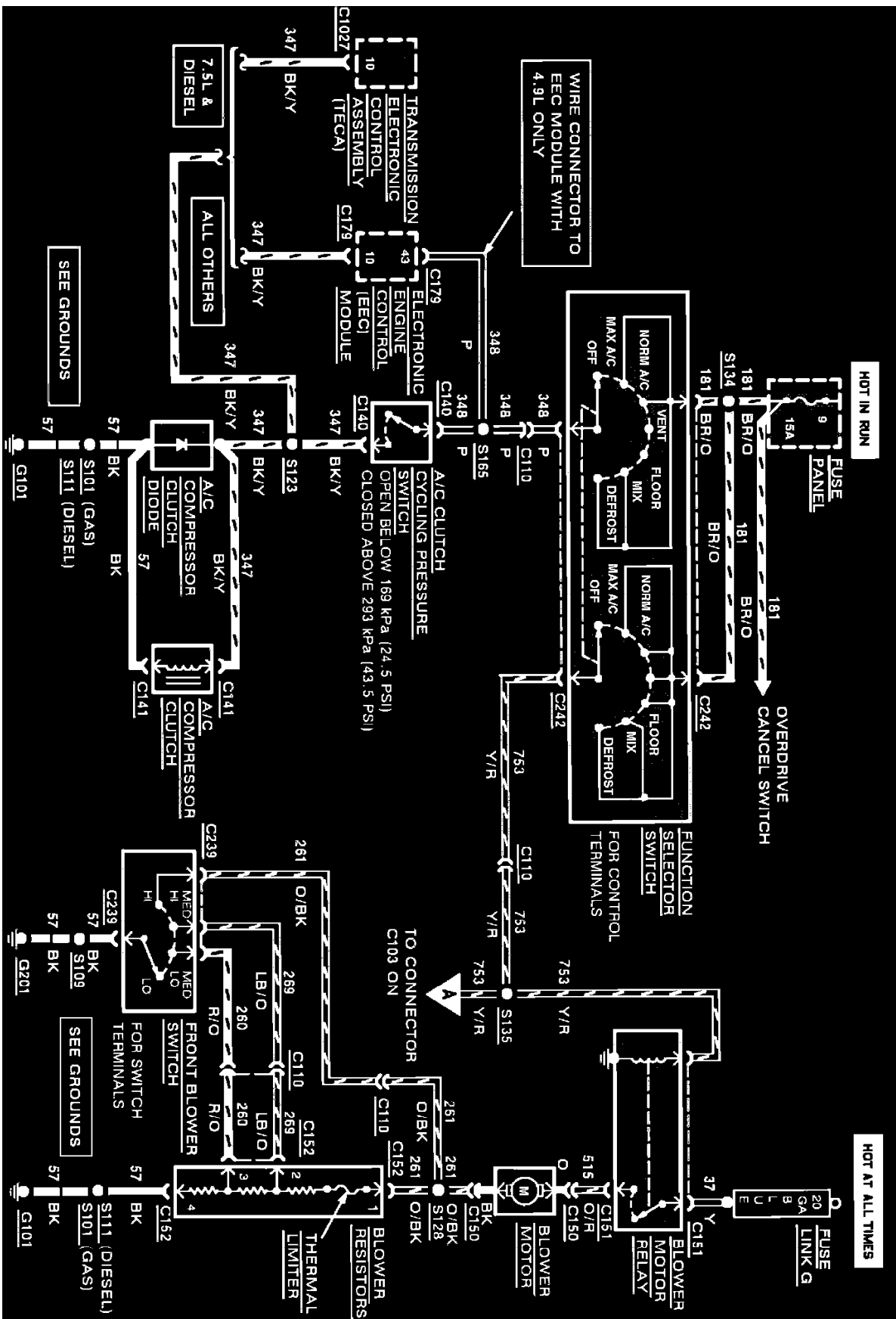


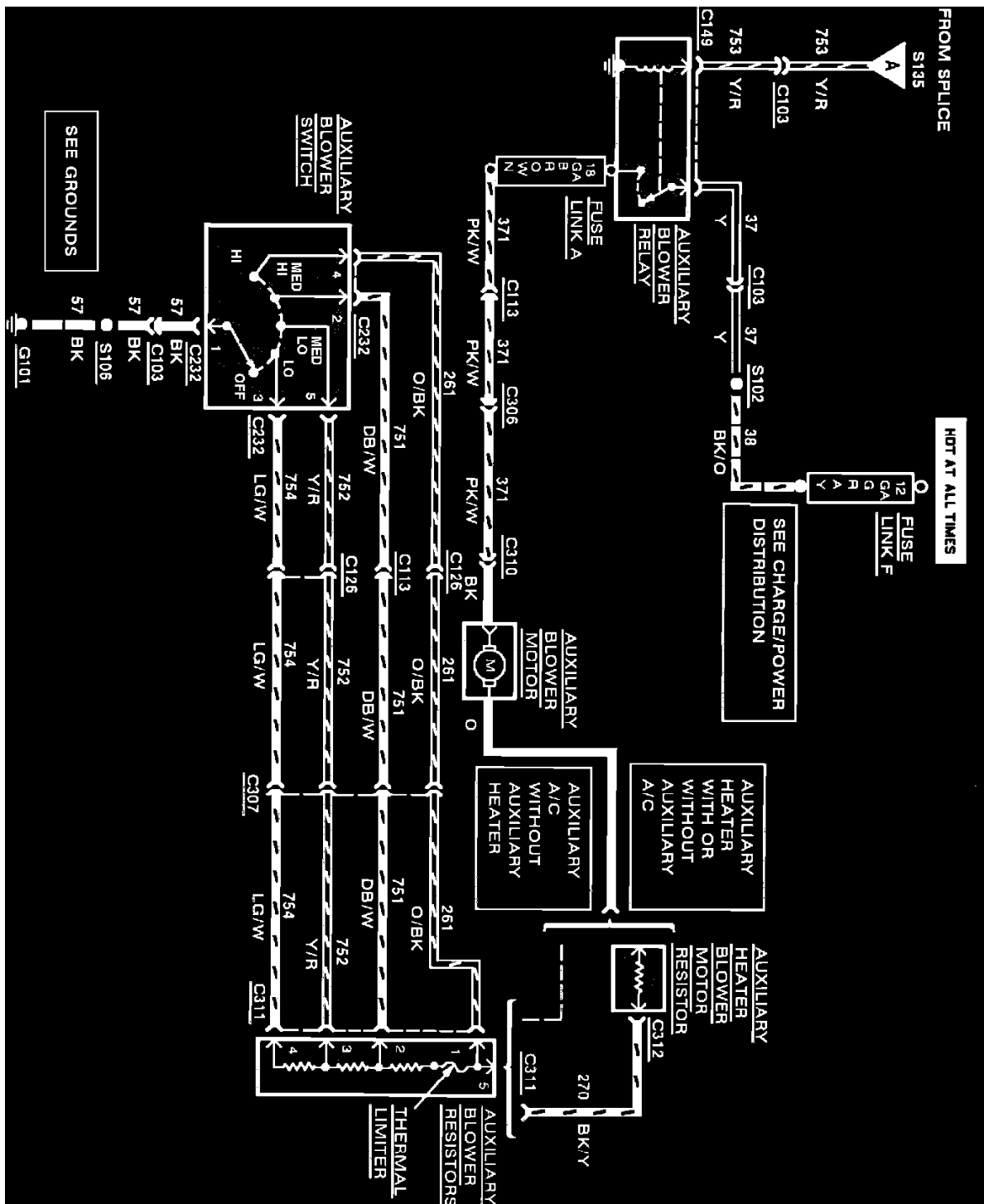
Fig. 3 Speed Control Wiring Diagram



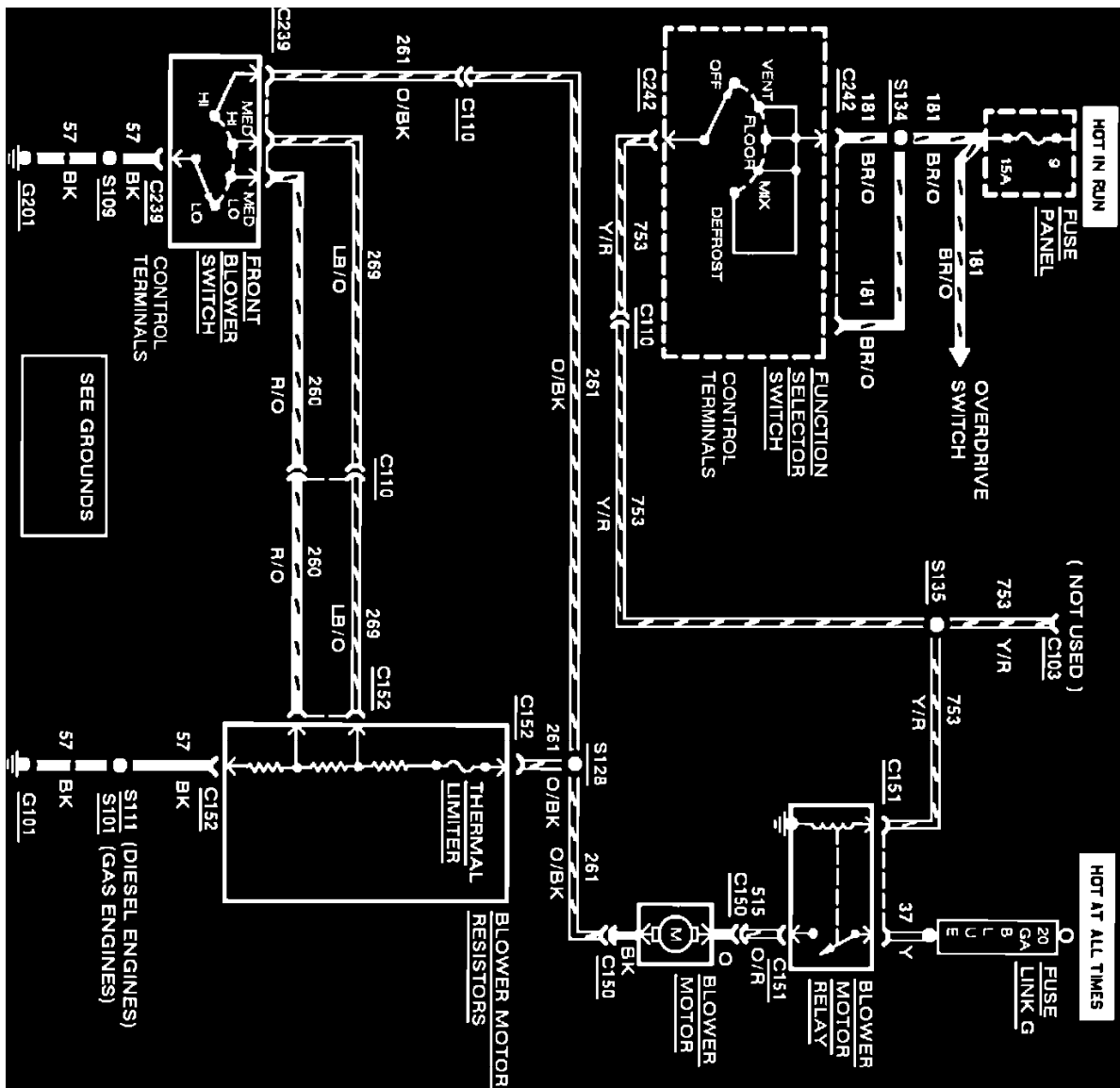
Heater. Less A/C



Air Conditioning & Heater Wiring Circuit



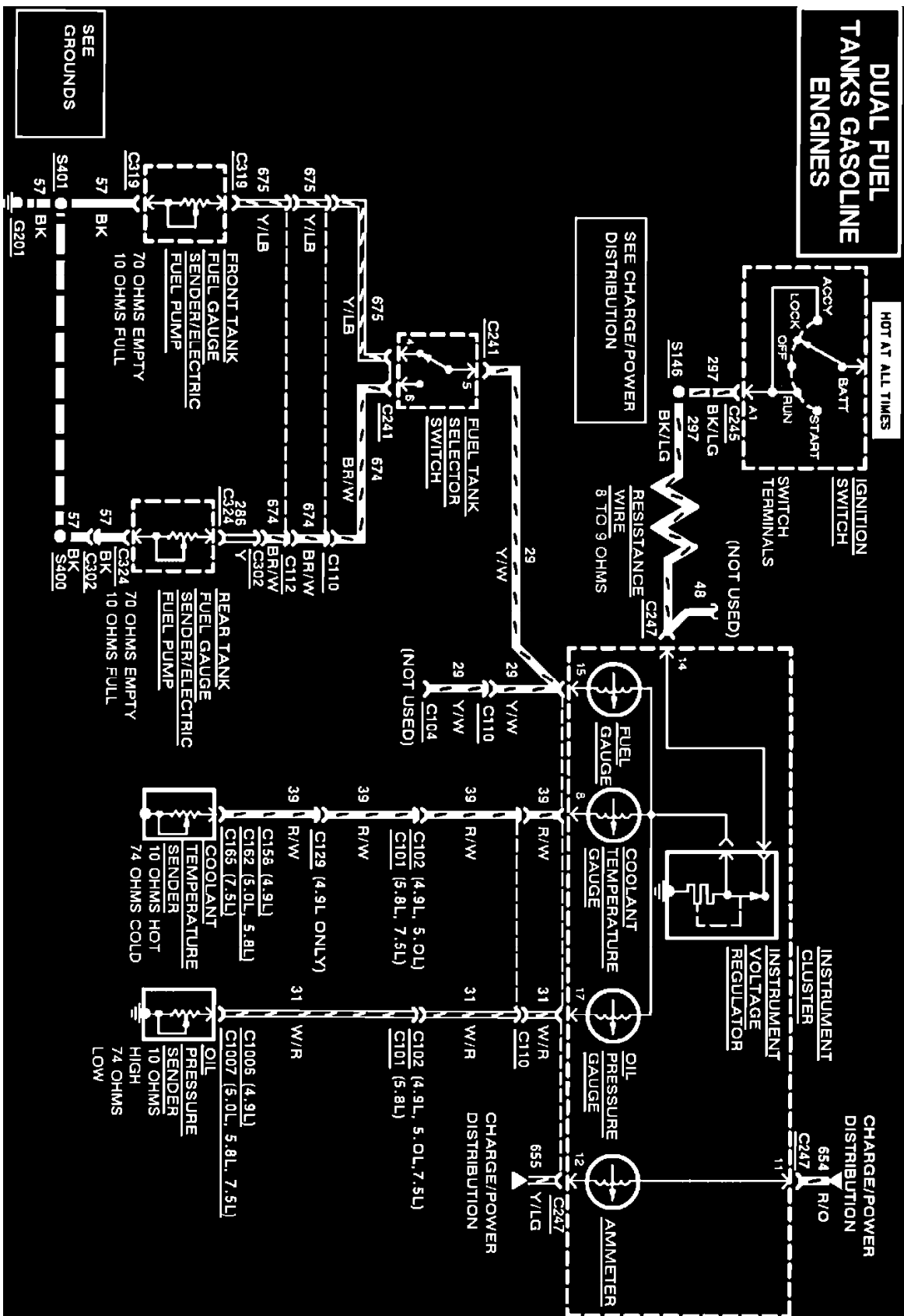
Air Conditioning & Heater Wiring Circuit



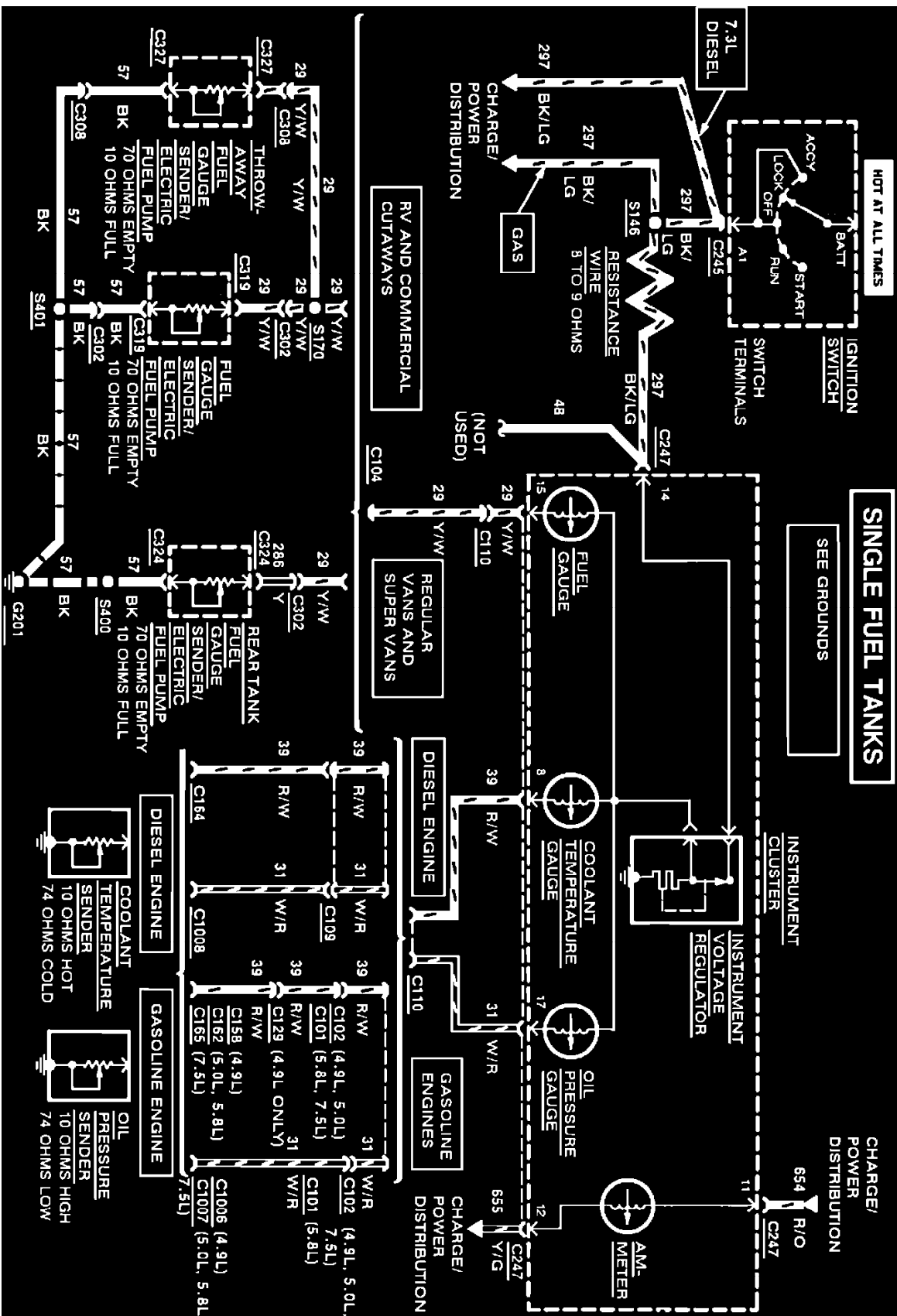
Heater

### Compressor HVAC

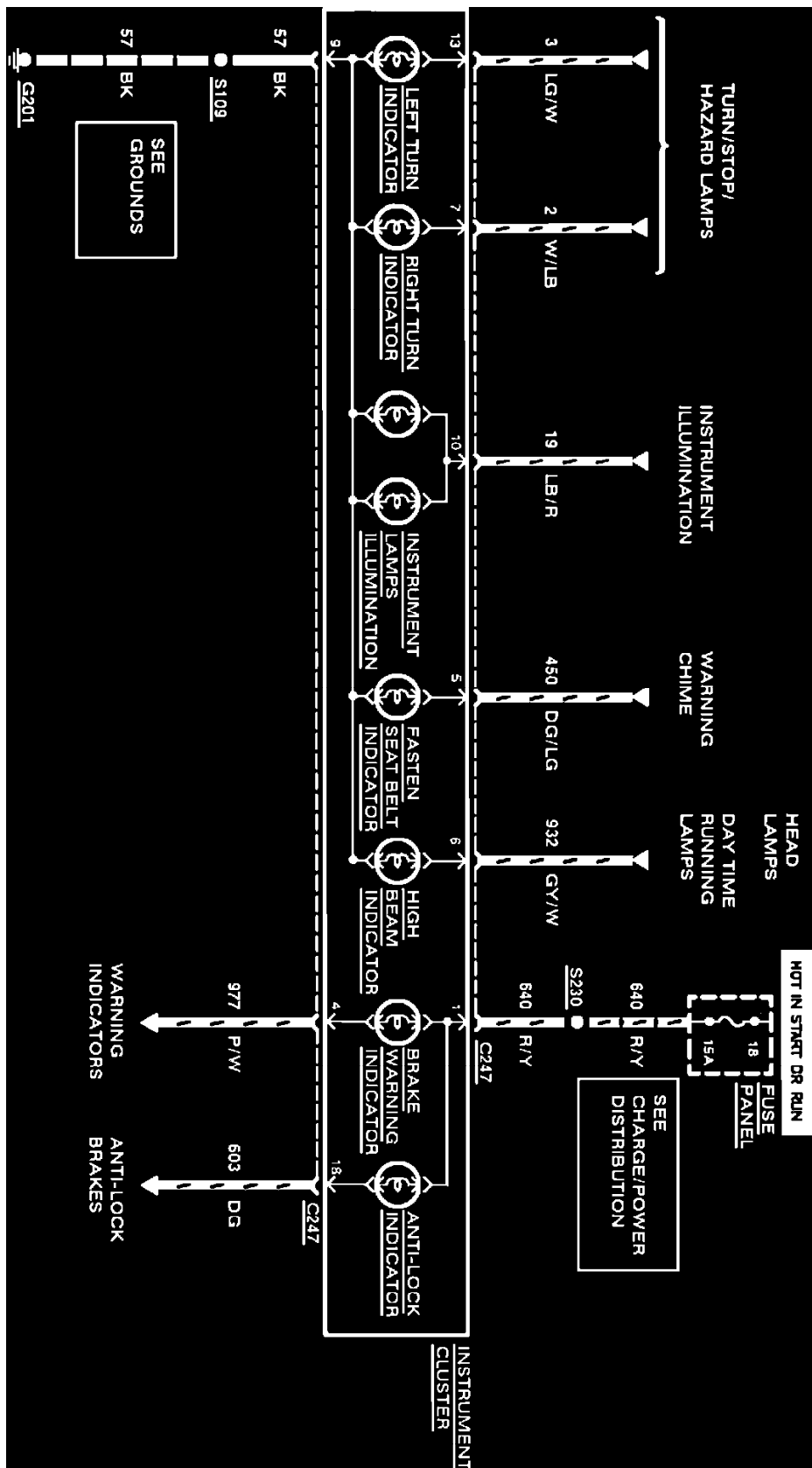
For diagrams for the A/C Compressor, please refer to Heating and Air Conditioning Diagrams. See: Heating and Air Conditioning/Diagrams



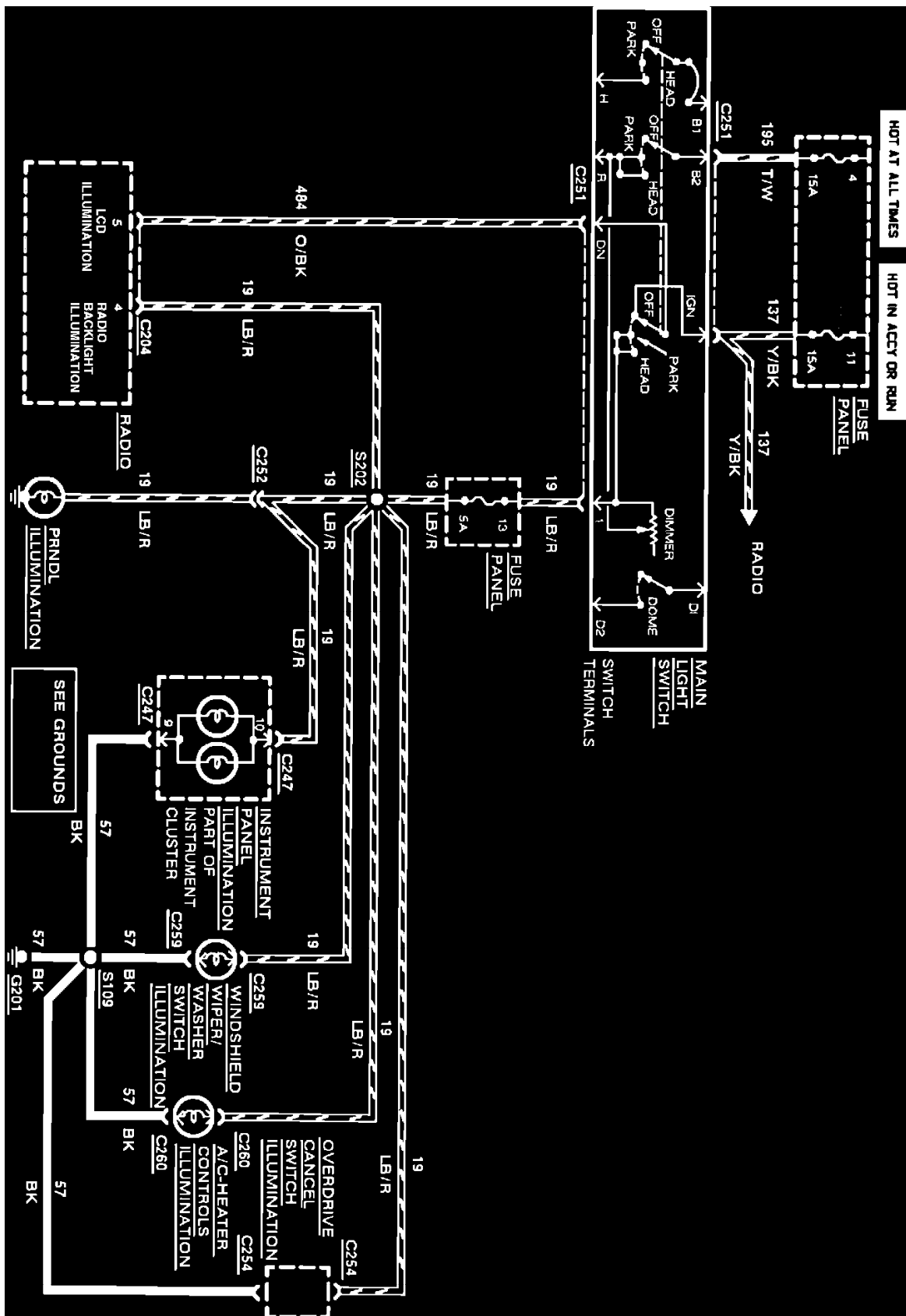
Instrument Panel



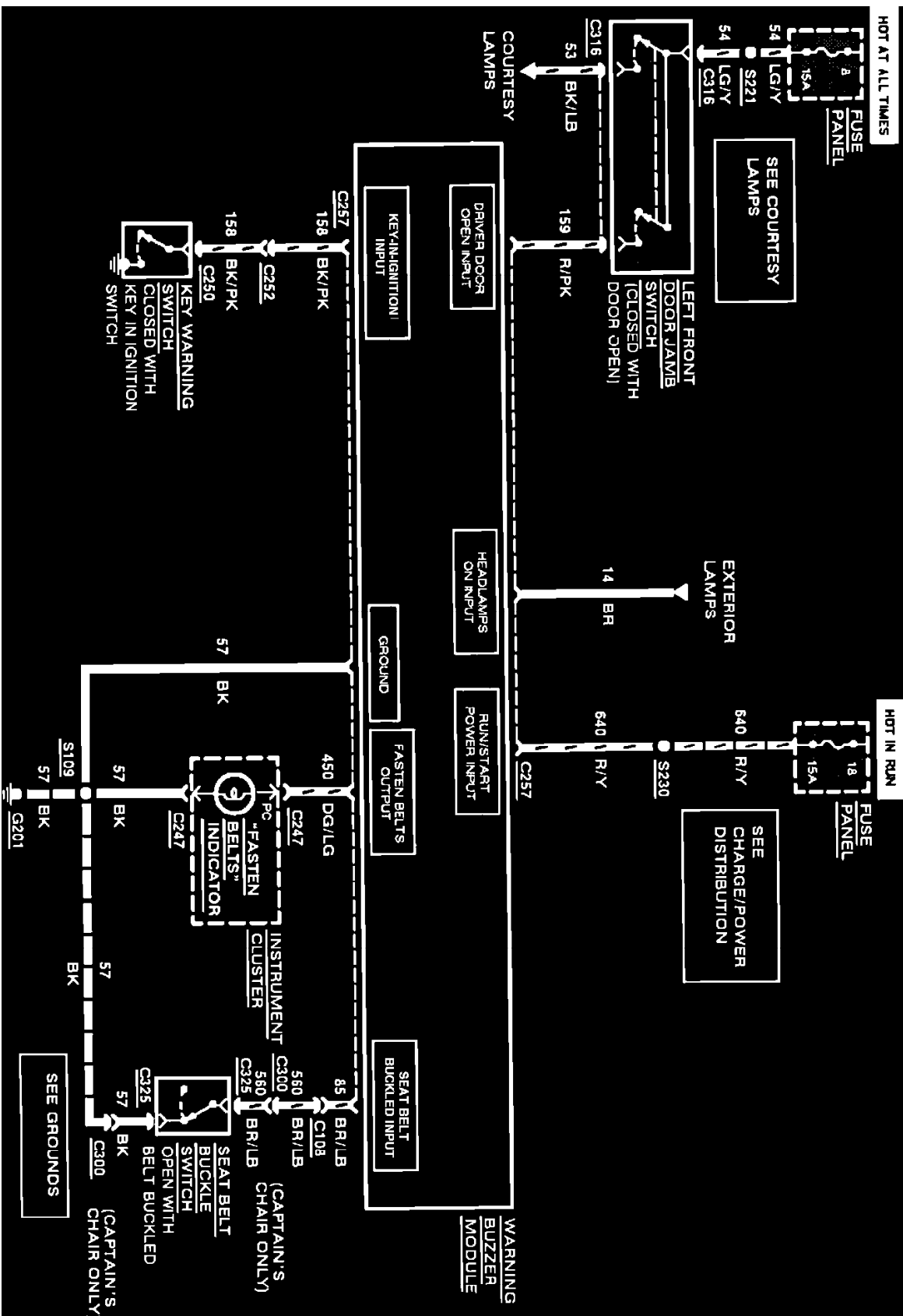
Instrument Panel



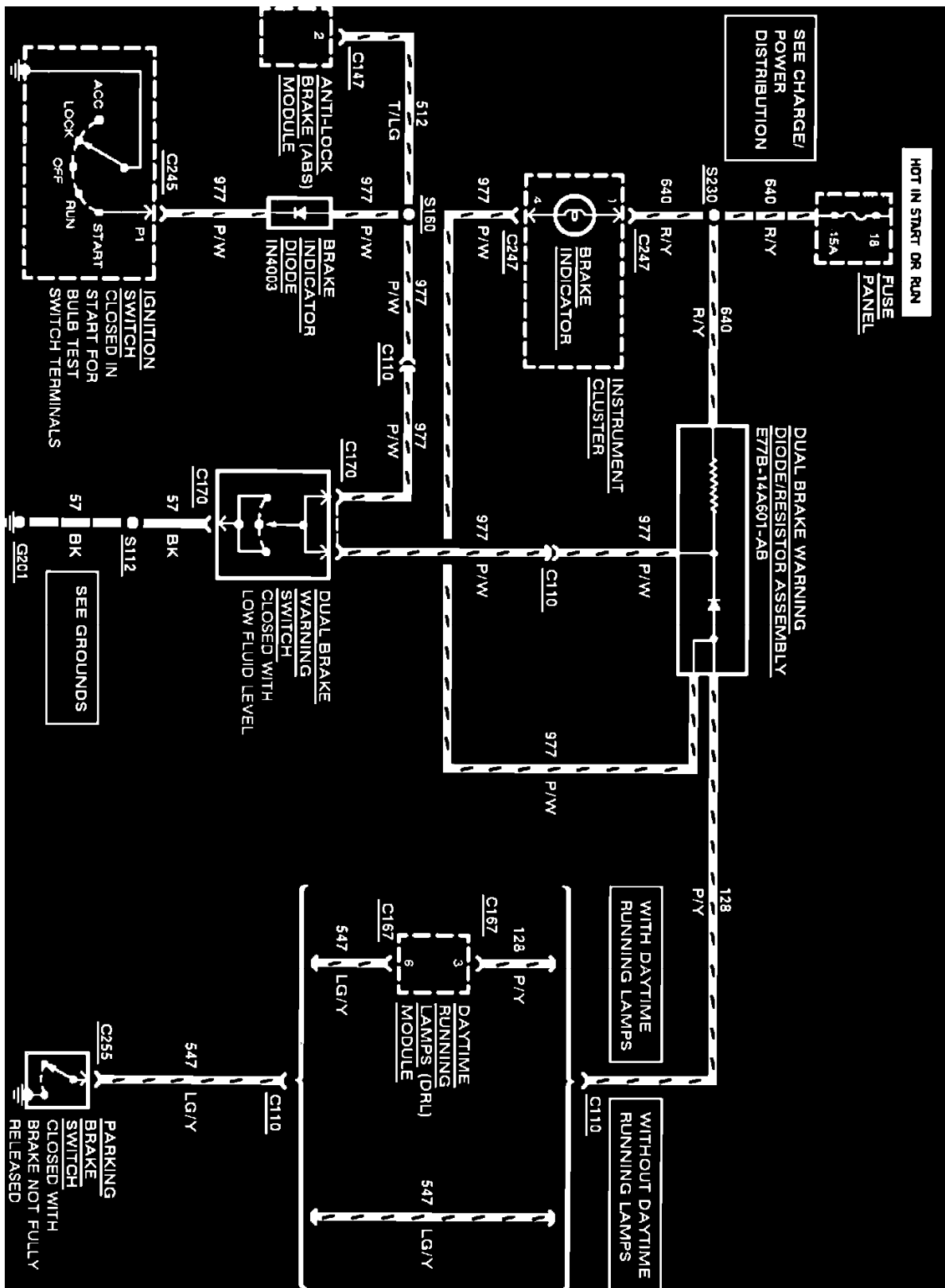
Instrument Panel



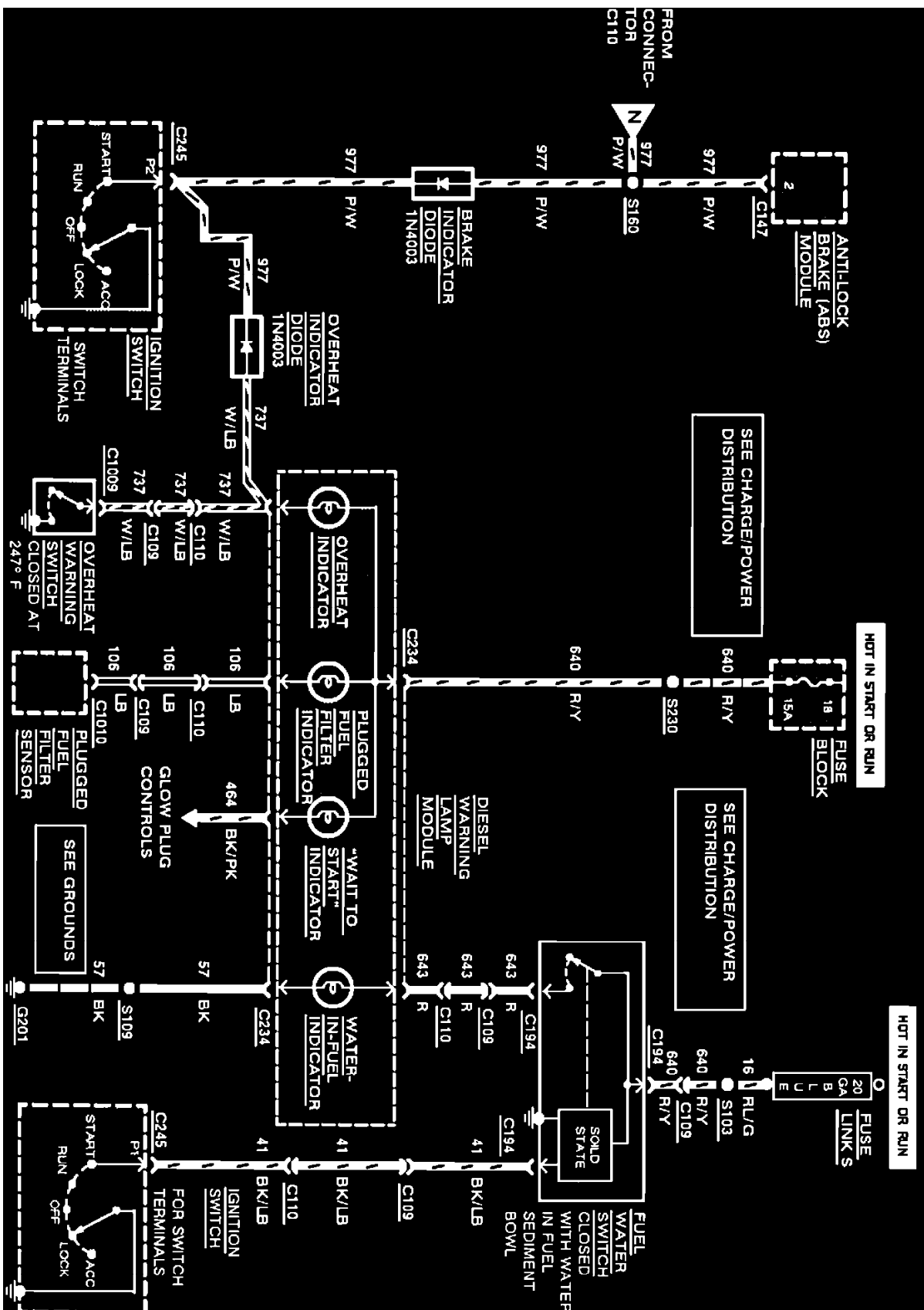
Instrument Illumination



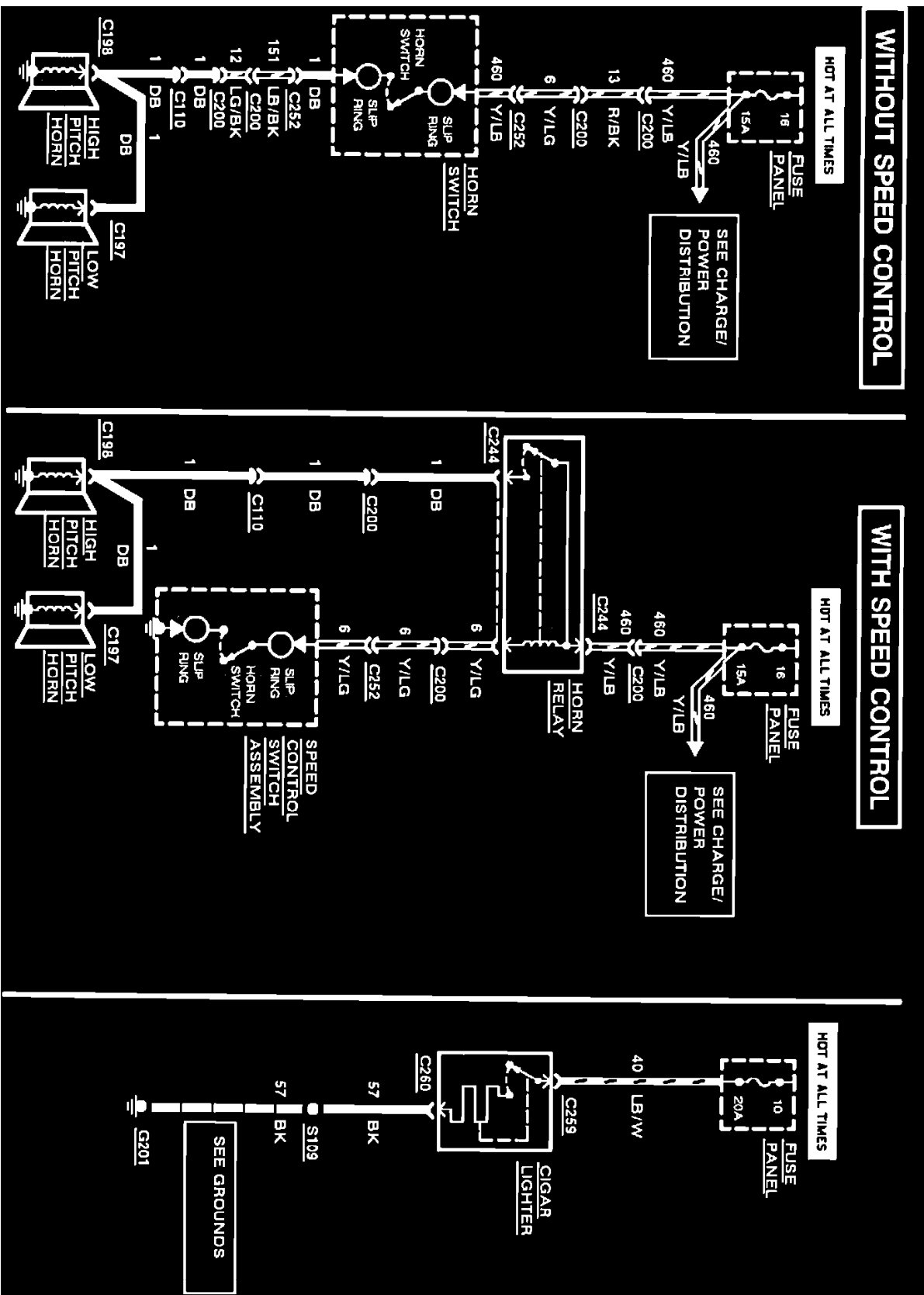
Warning Chime



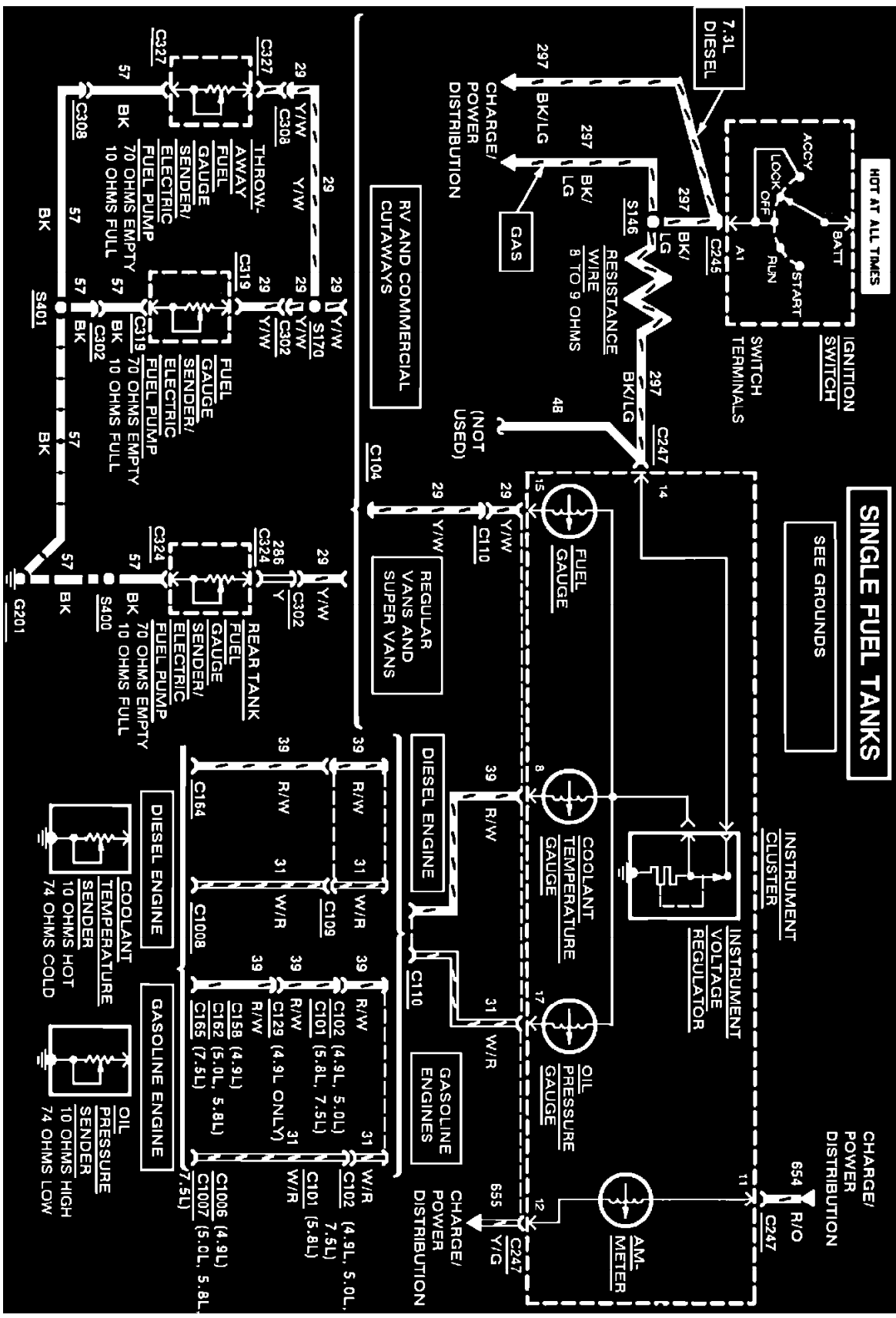
Warning Indicators



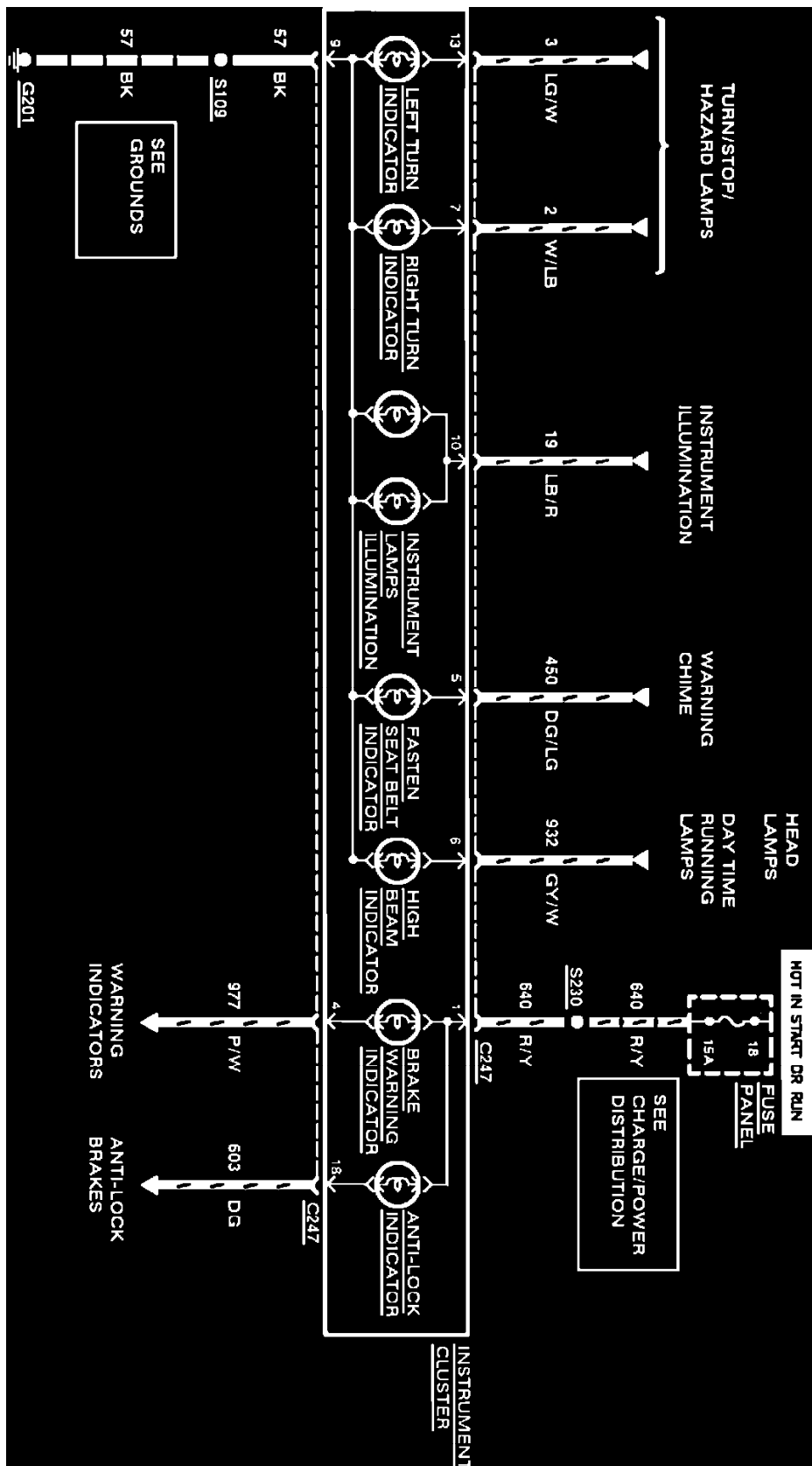
Warning Indicators



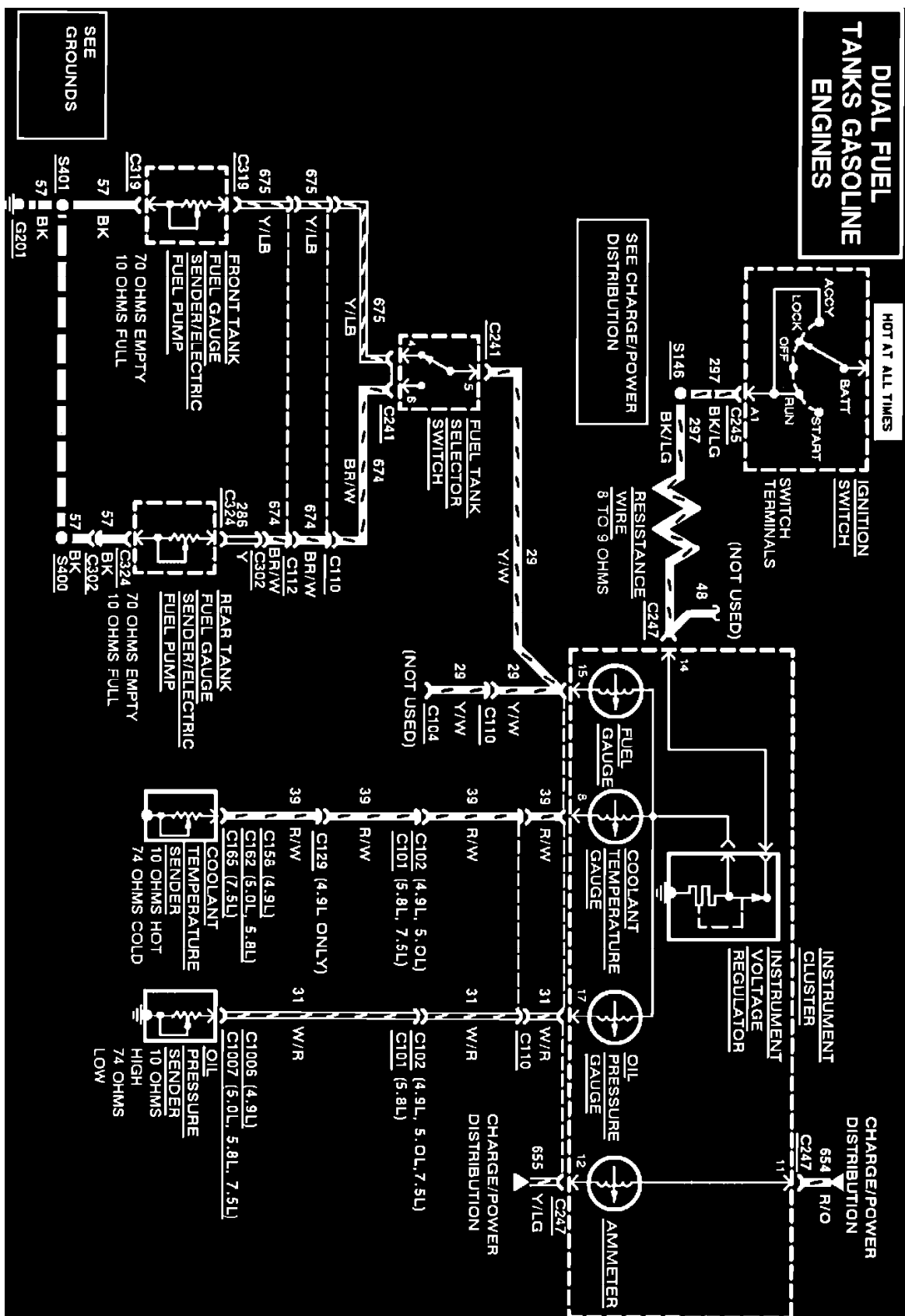
Horn/Cigar Lighter



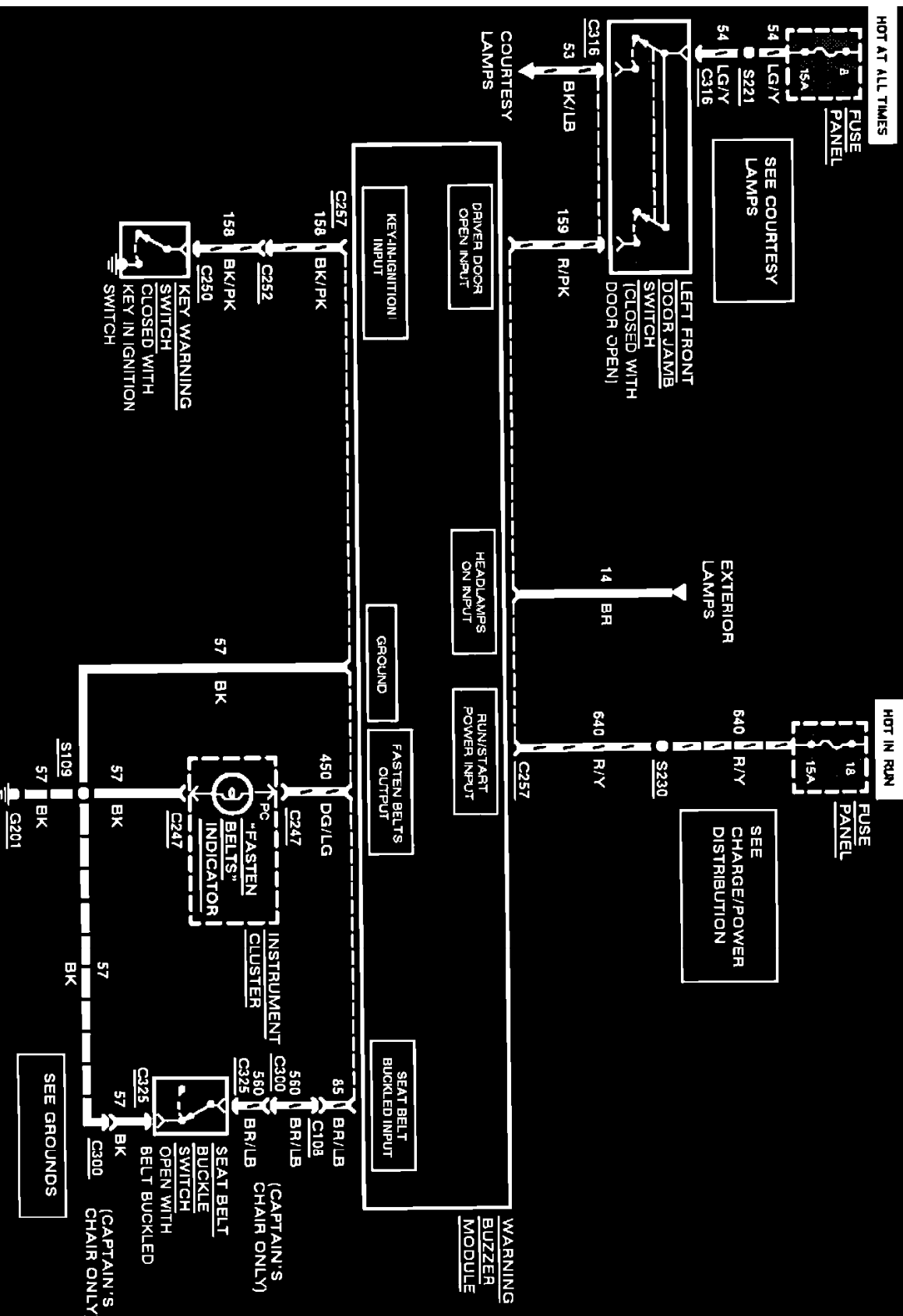
Instrument Panel



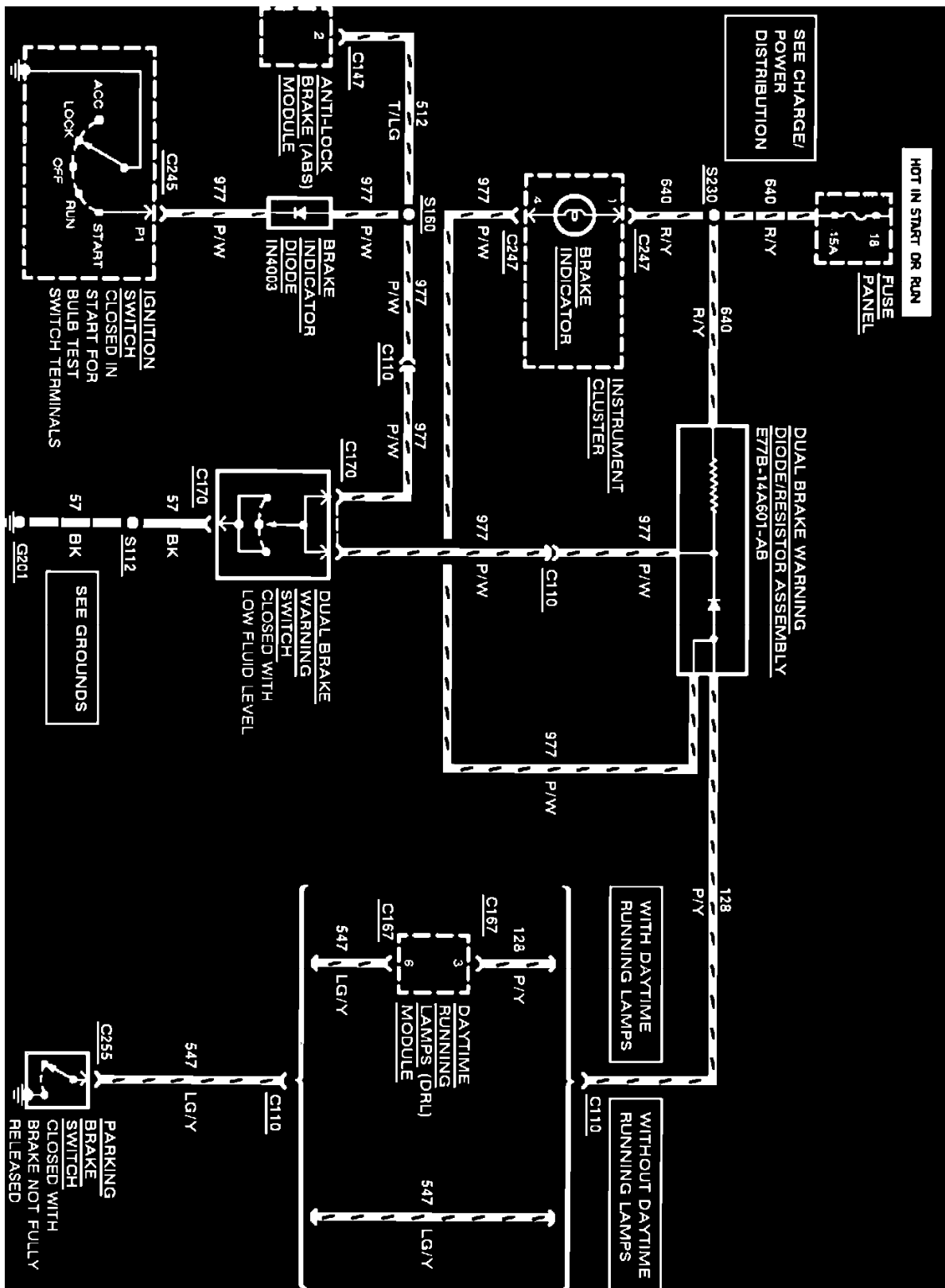
Instrument Panel



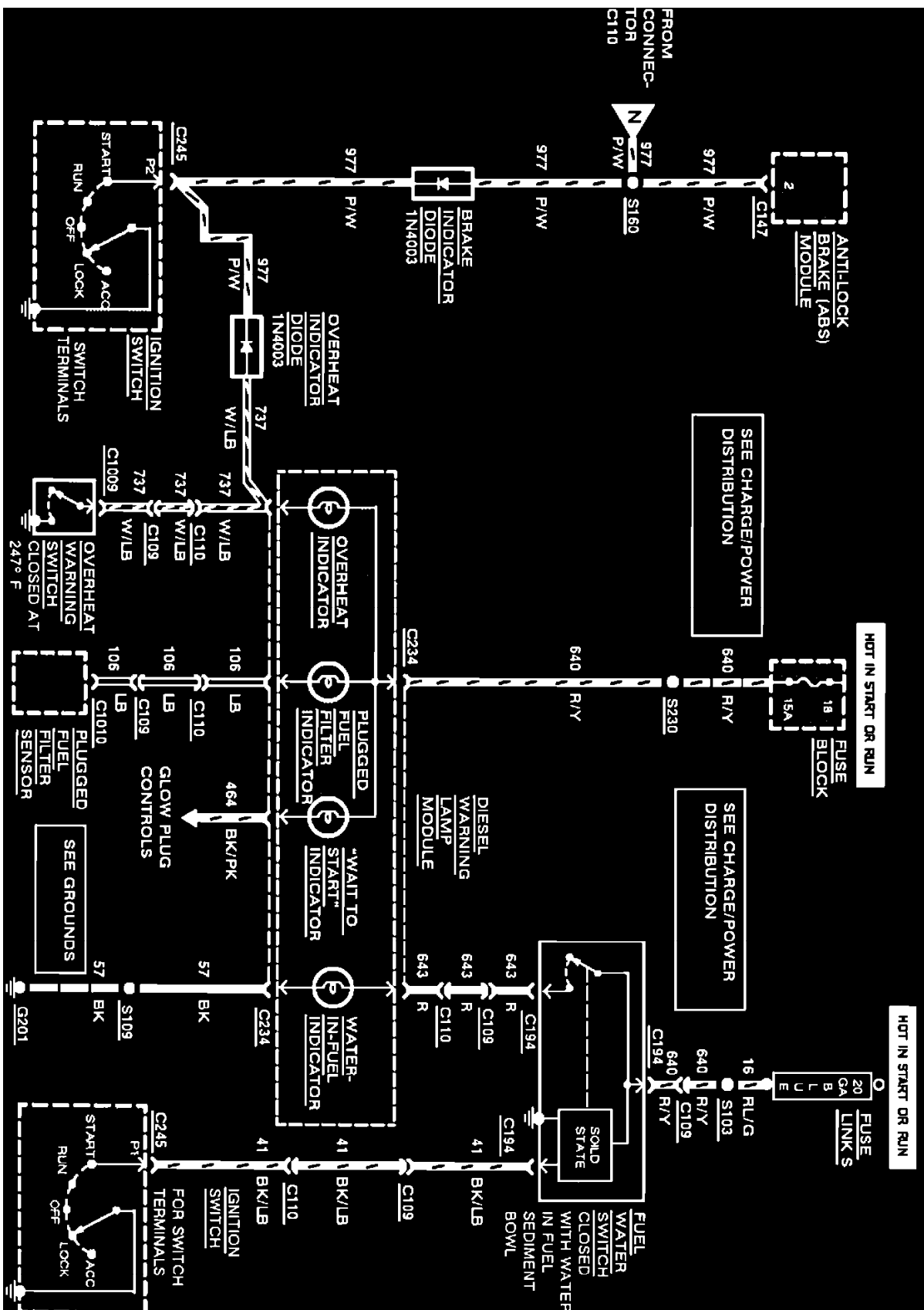
Instrument Panel



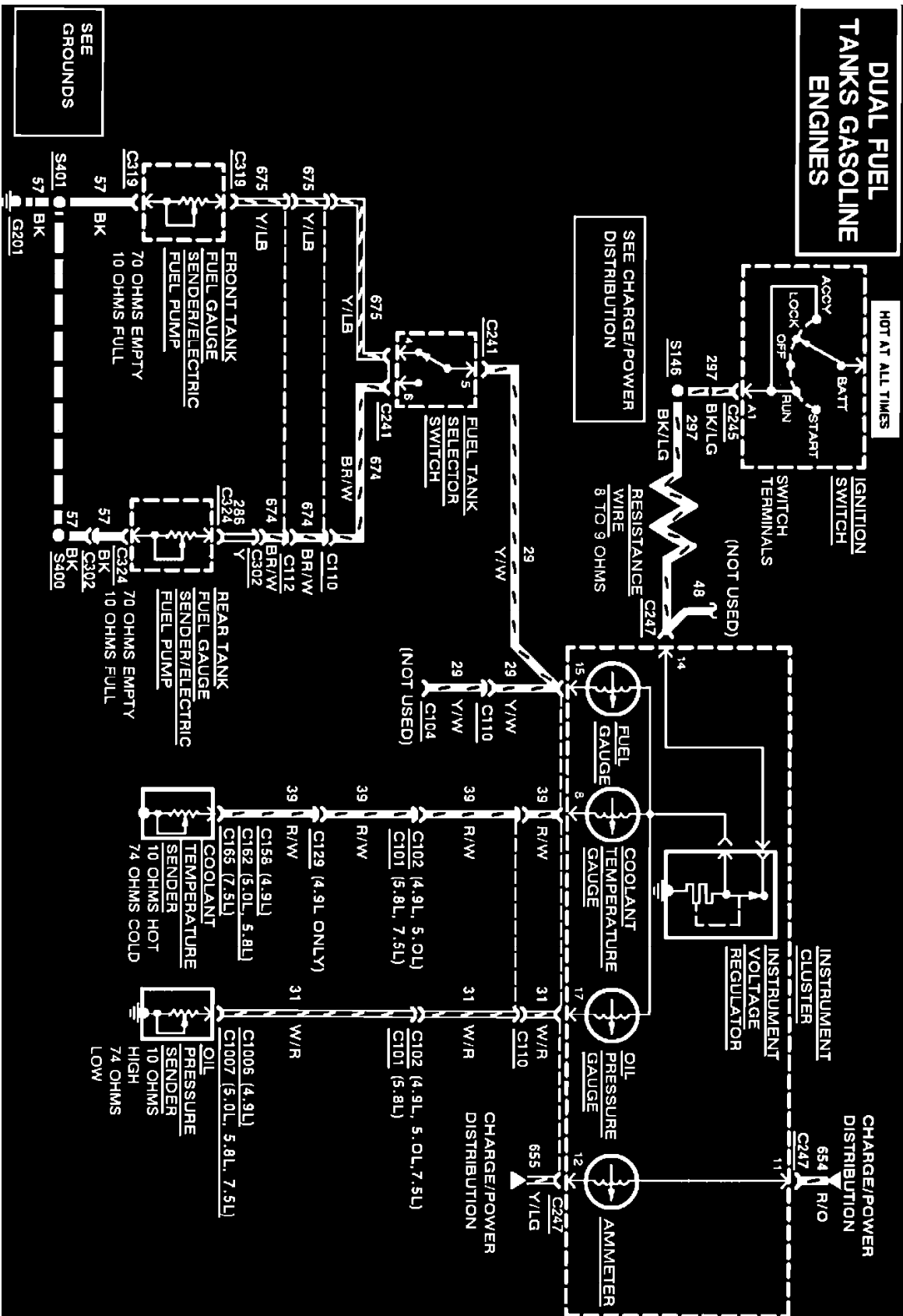
Warning Chime



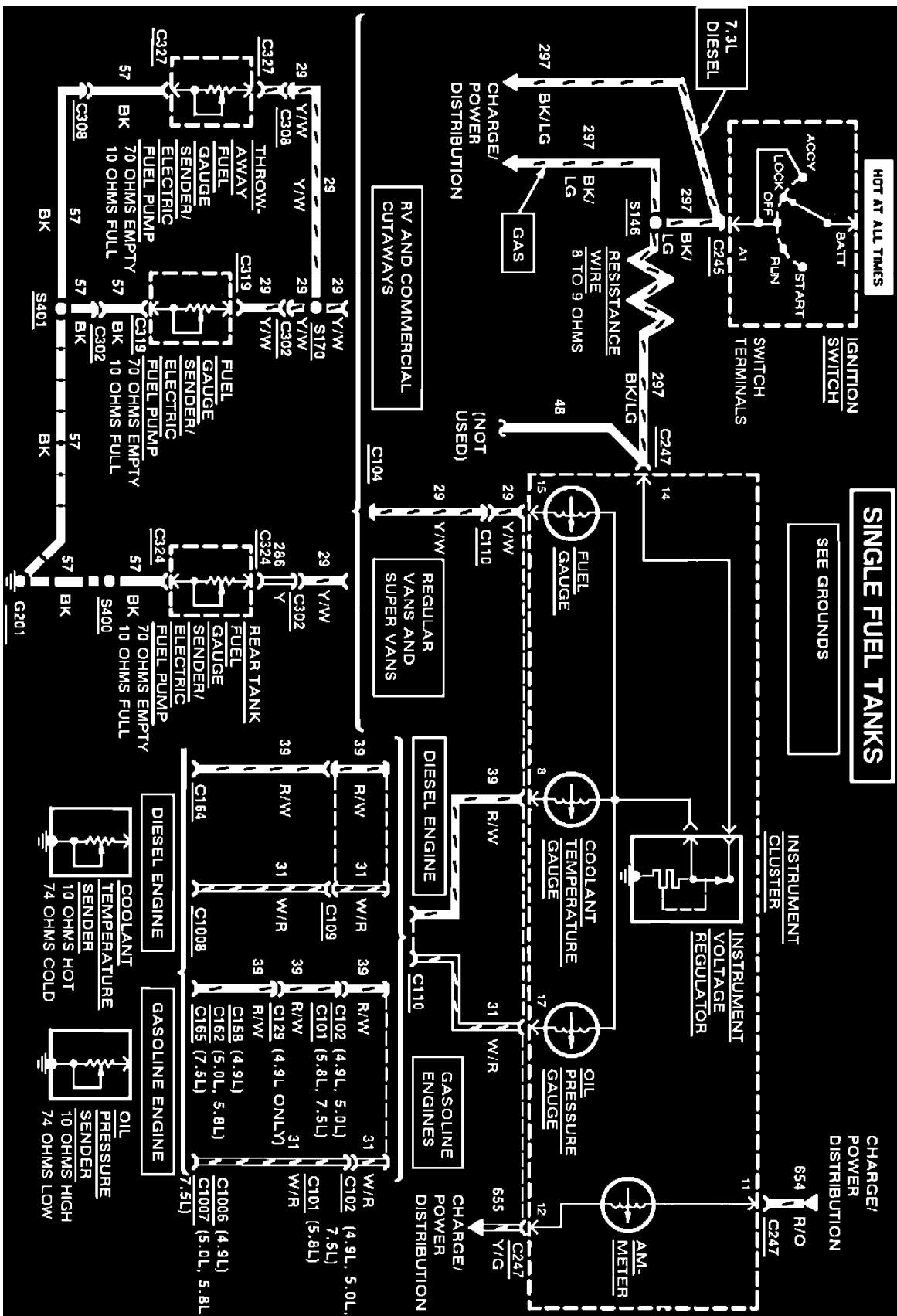
Warning Indicators



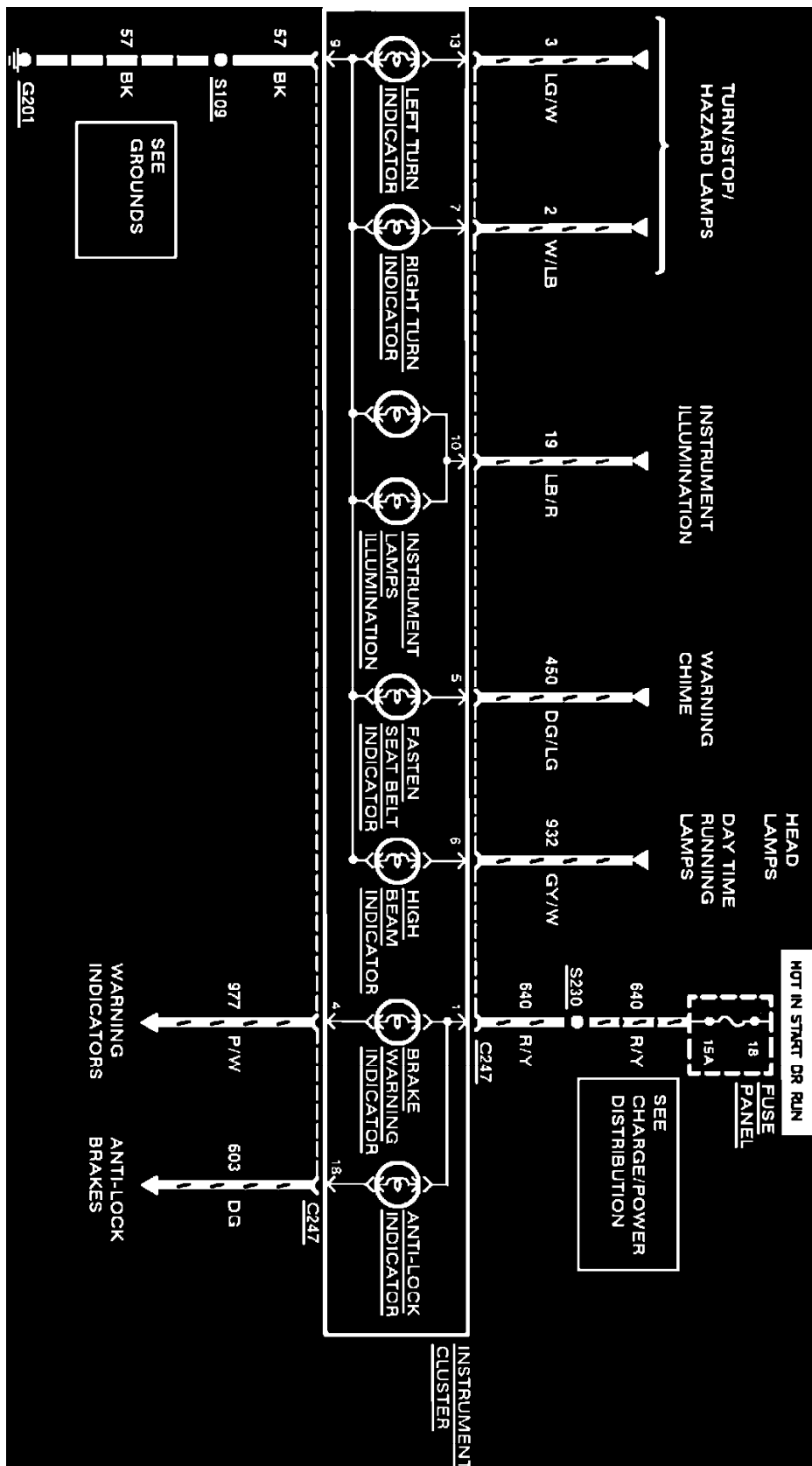
Warning Indicators



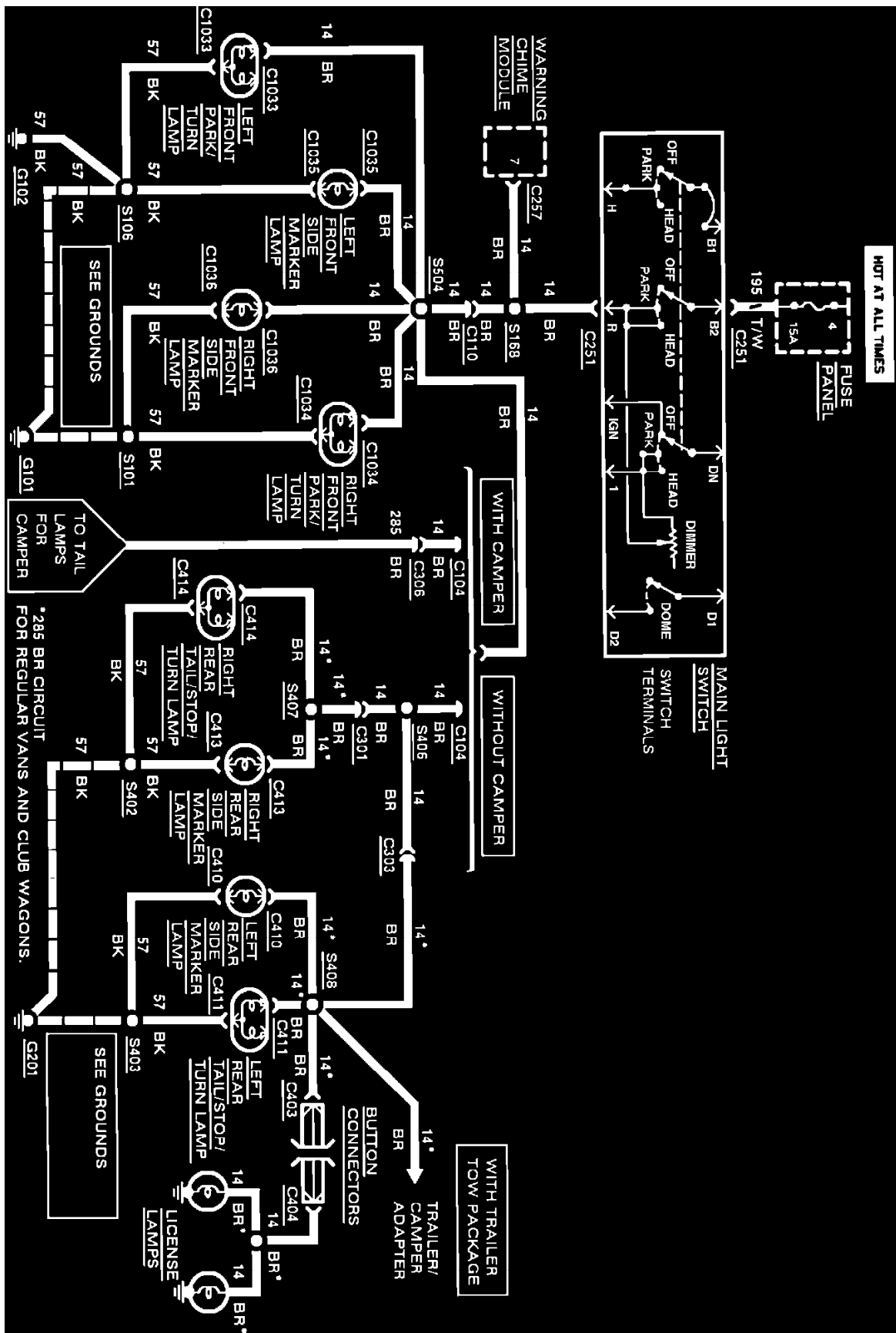
Instrument Panel



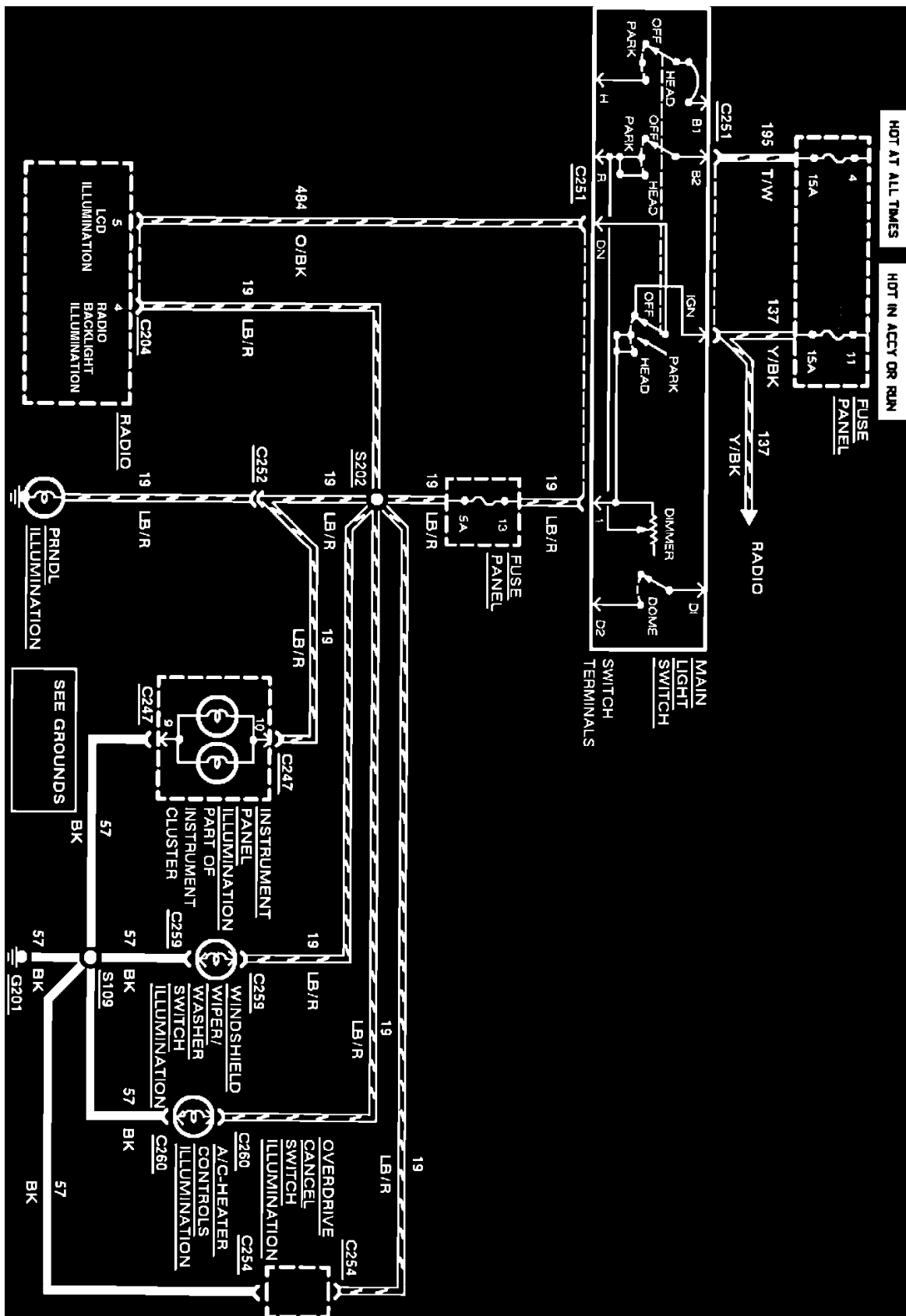
Instrument Panel



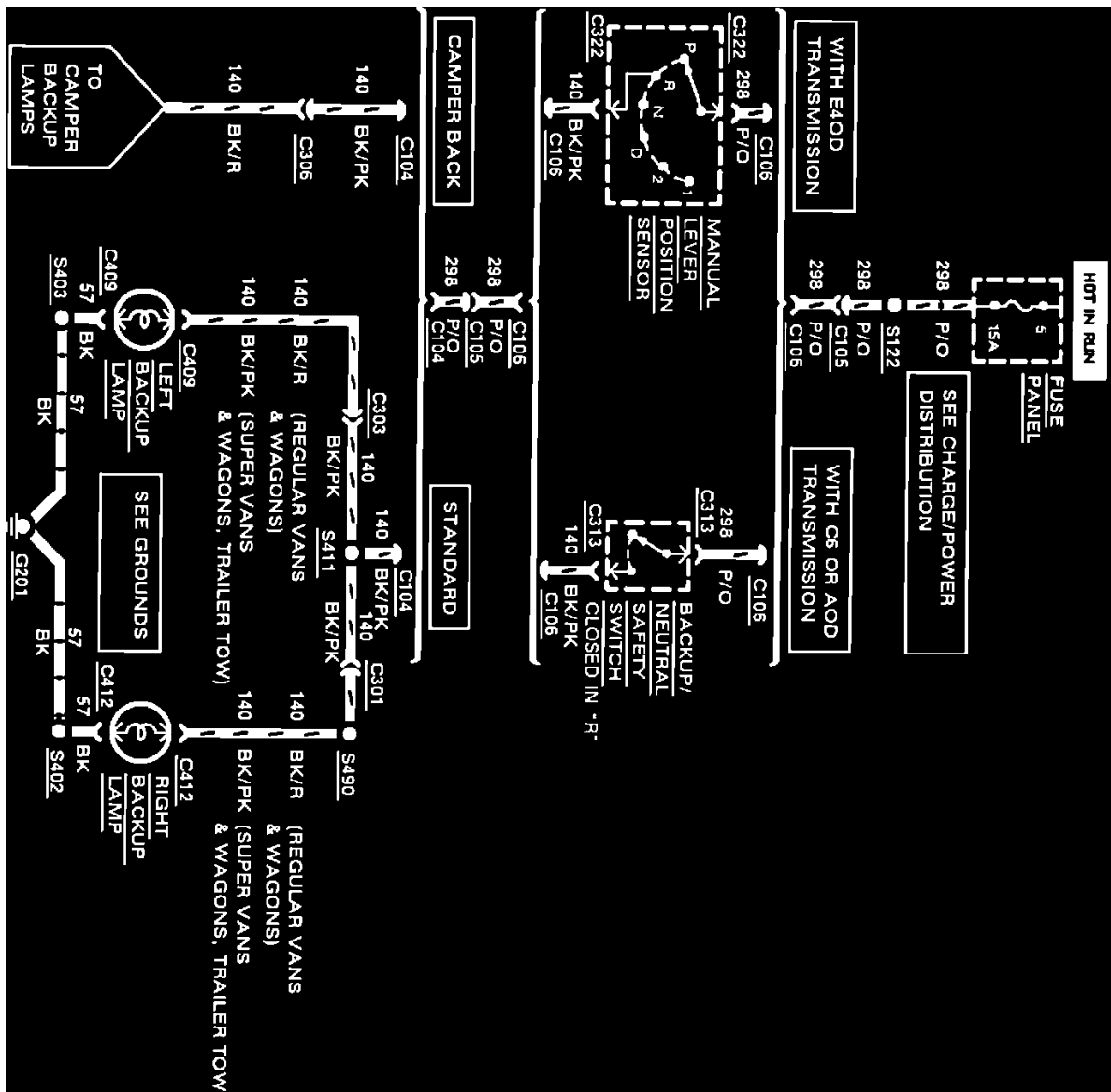
Instrument Panel



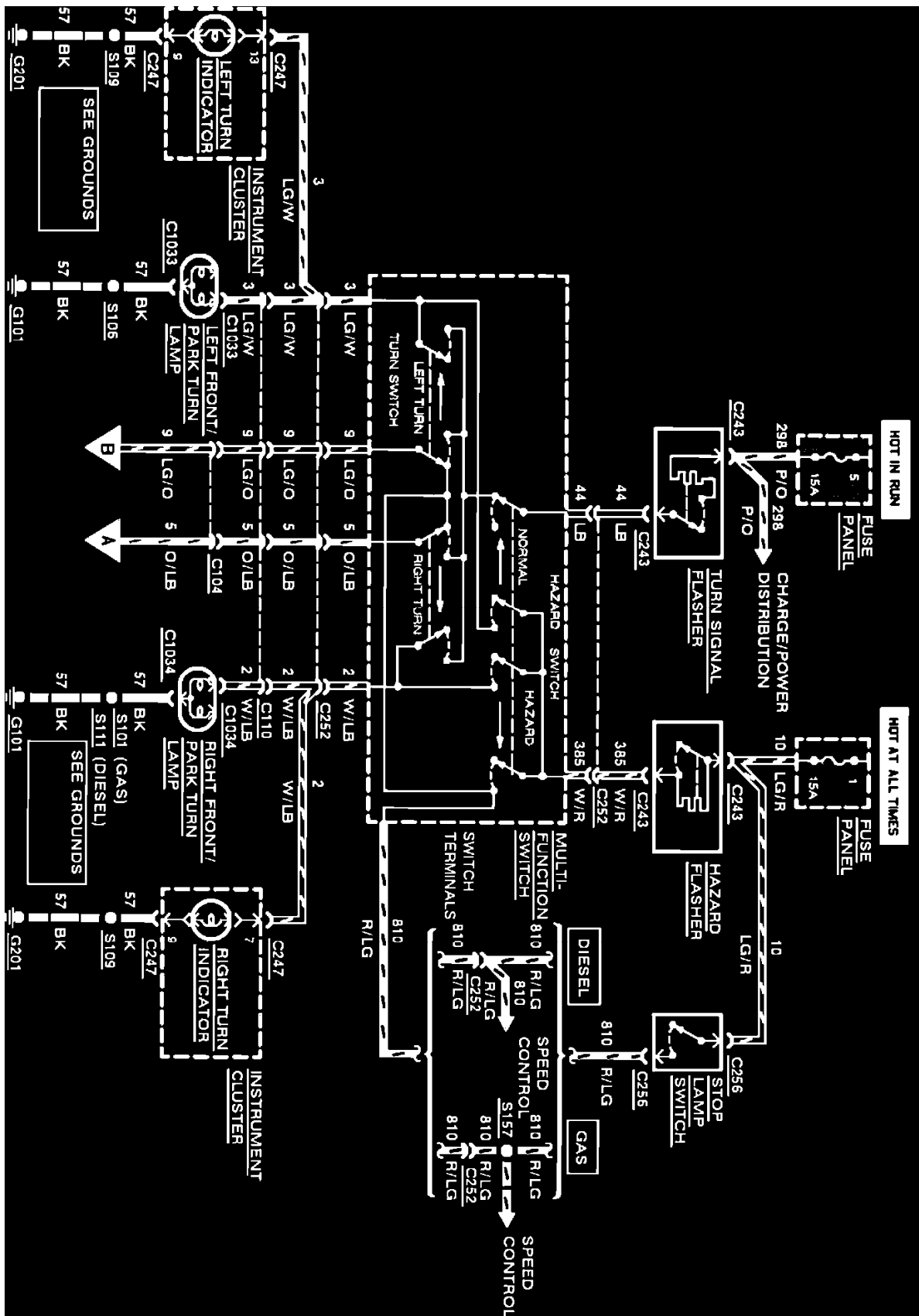
Exterior Lamps (Marker, Park, And License)



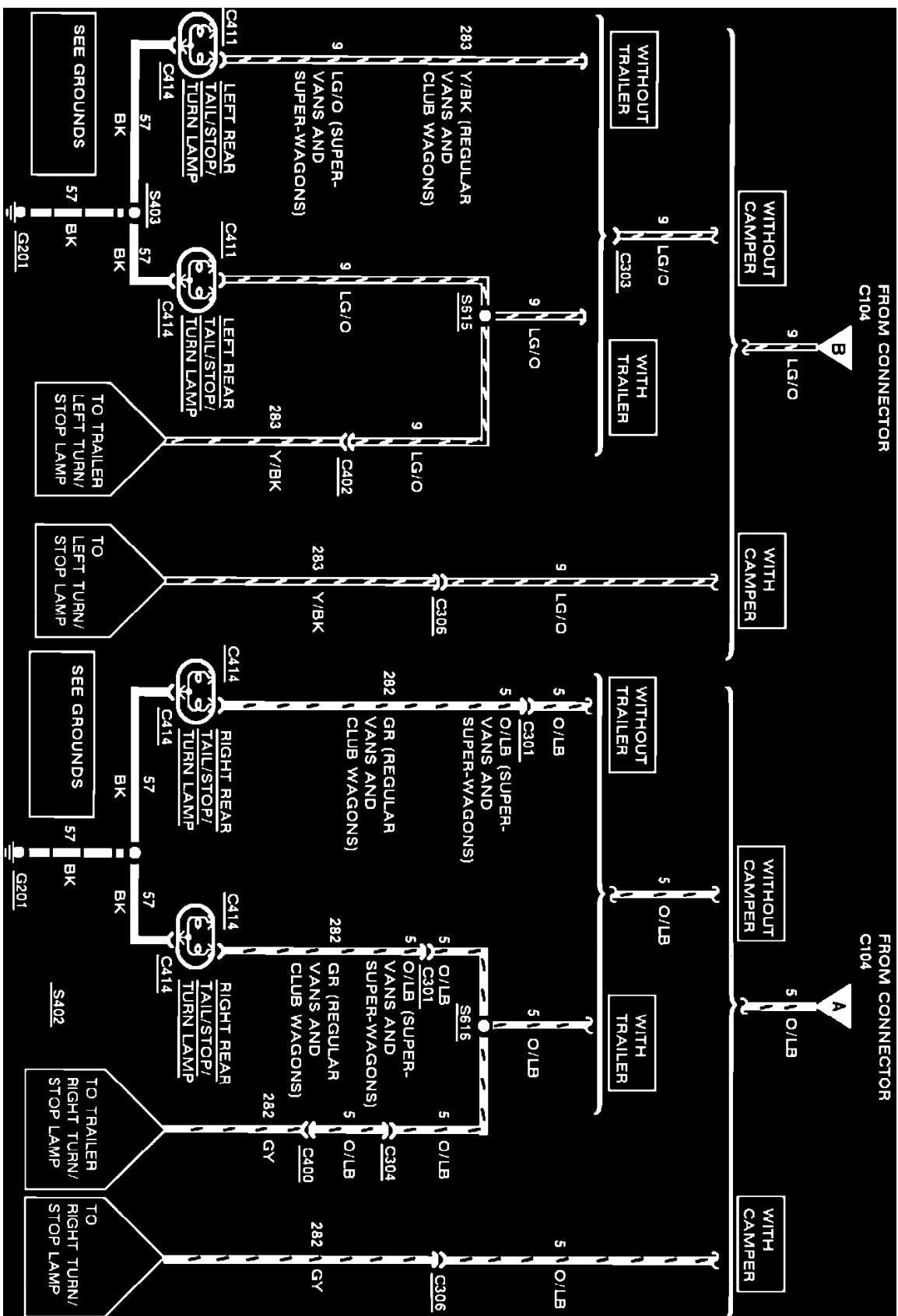
Instrument Illumination



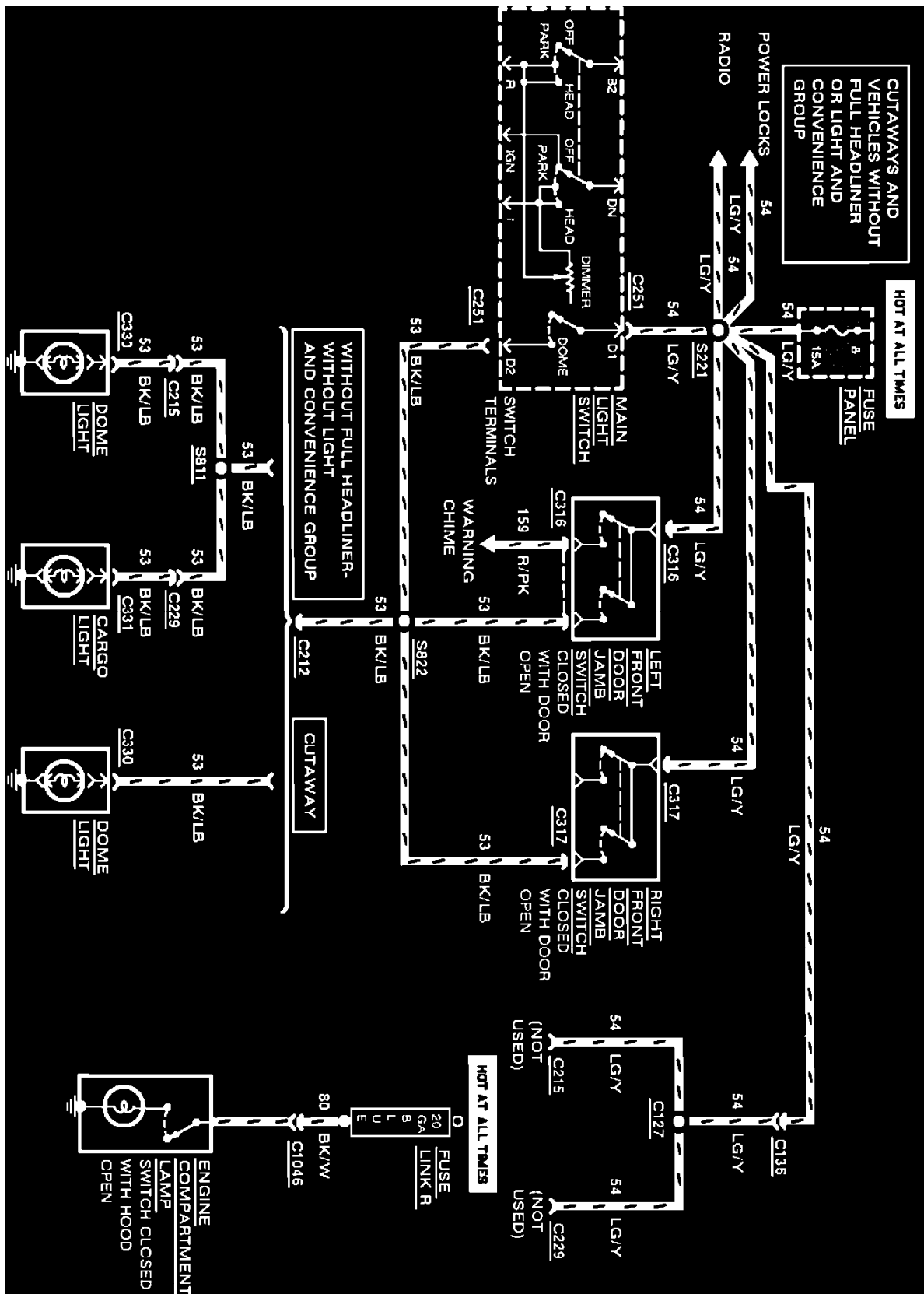
Backup Lamps



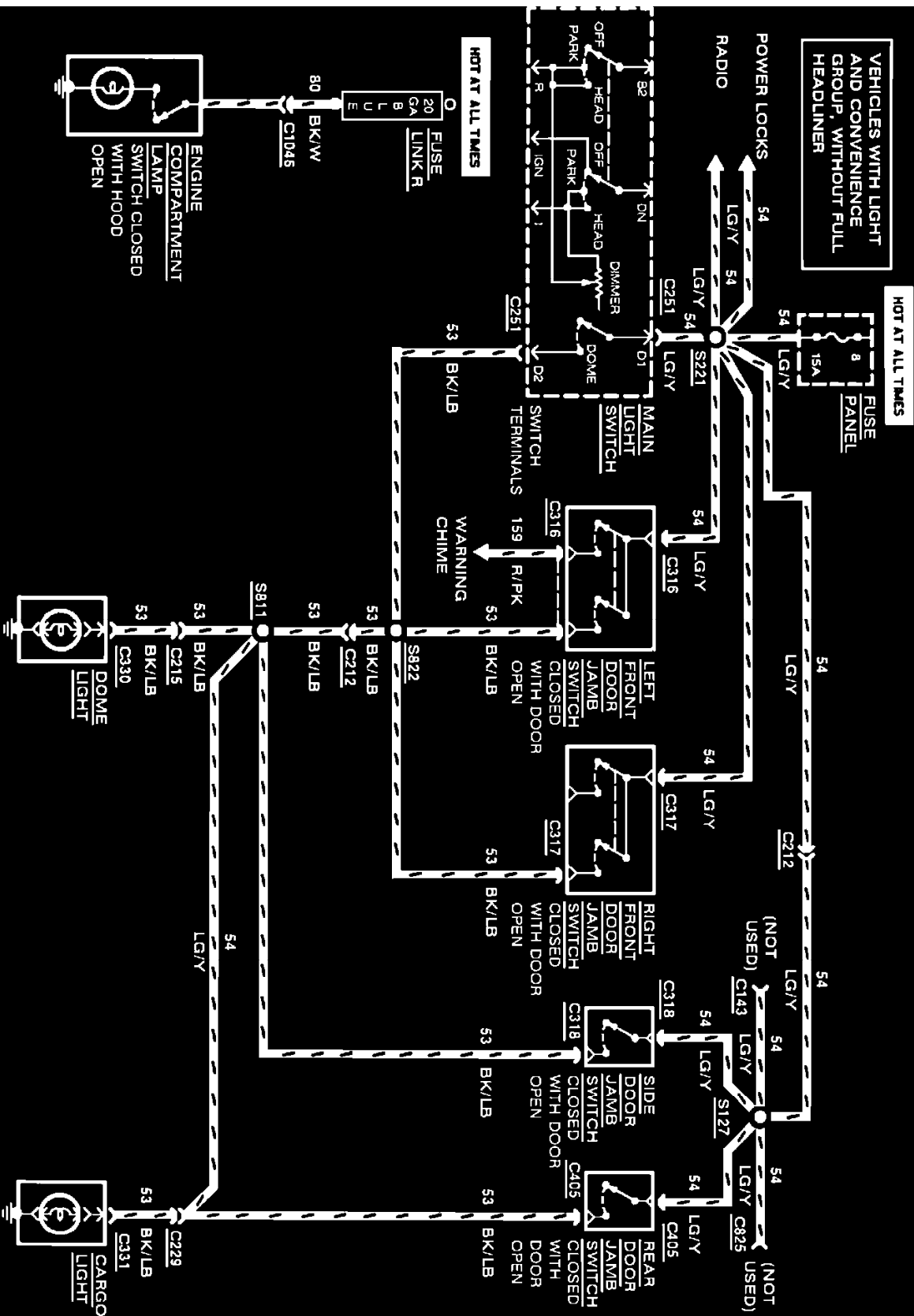
Turn/Stop/Hazard Lamps



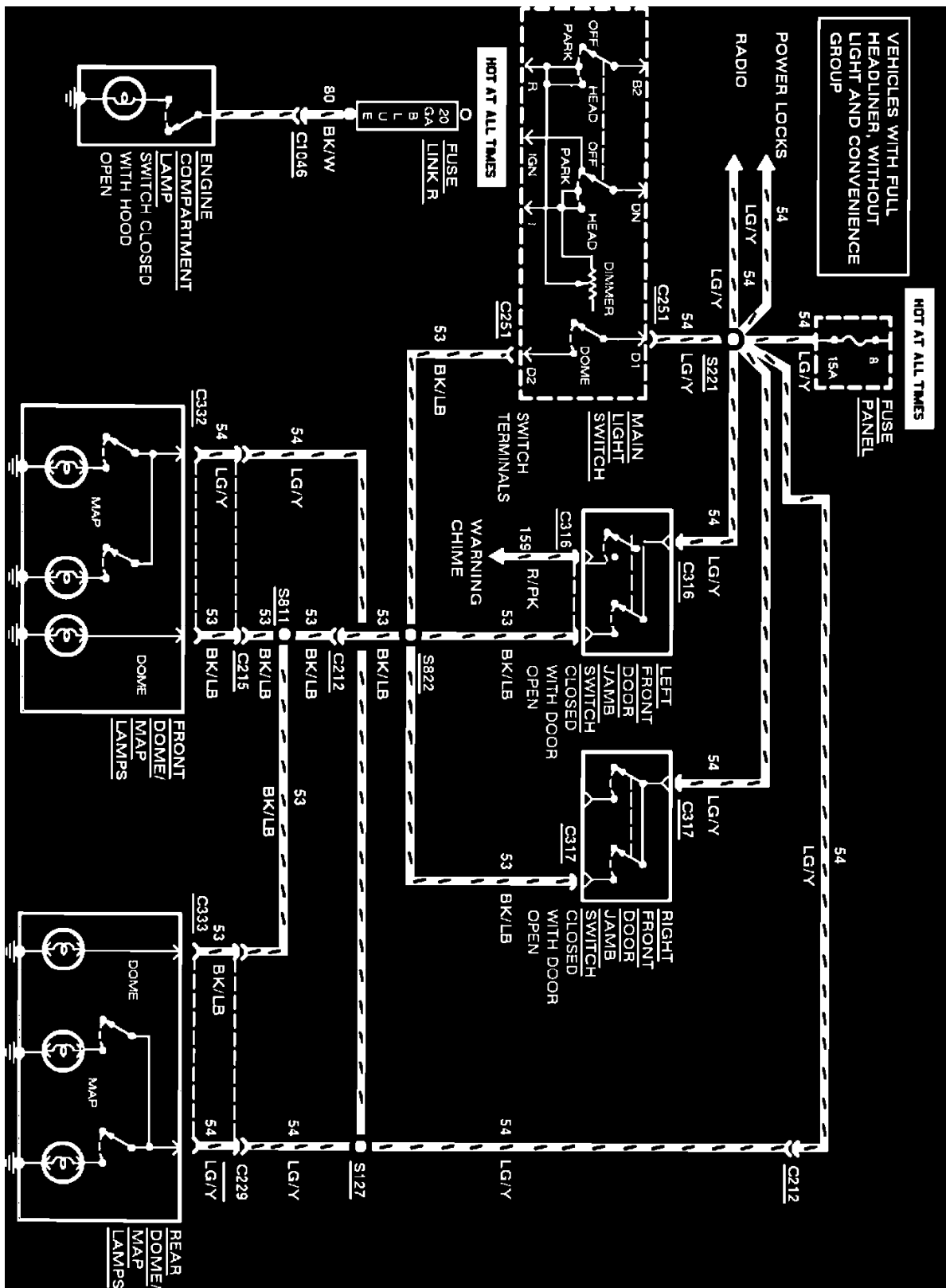
Turn/Stop/Hazard Lamps



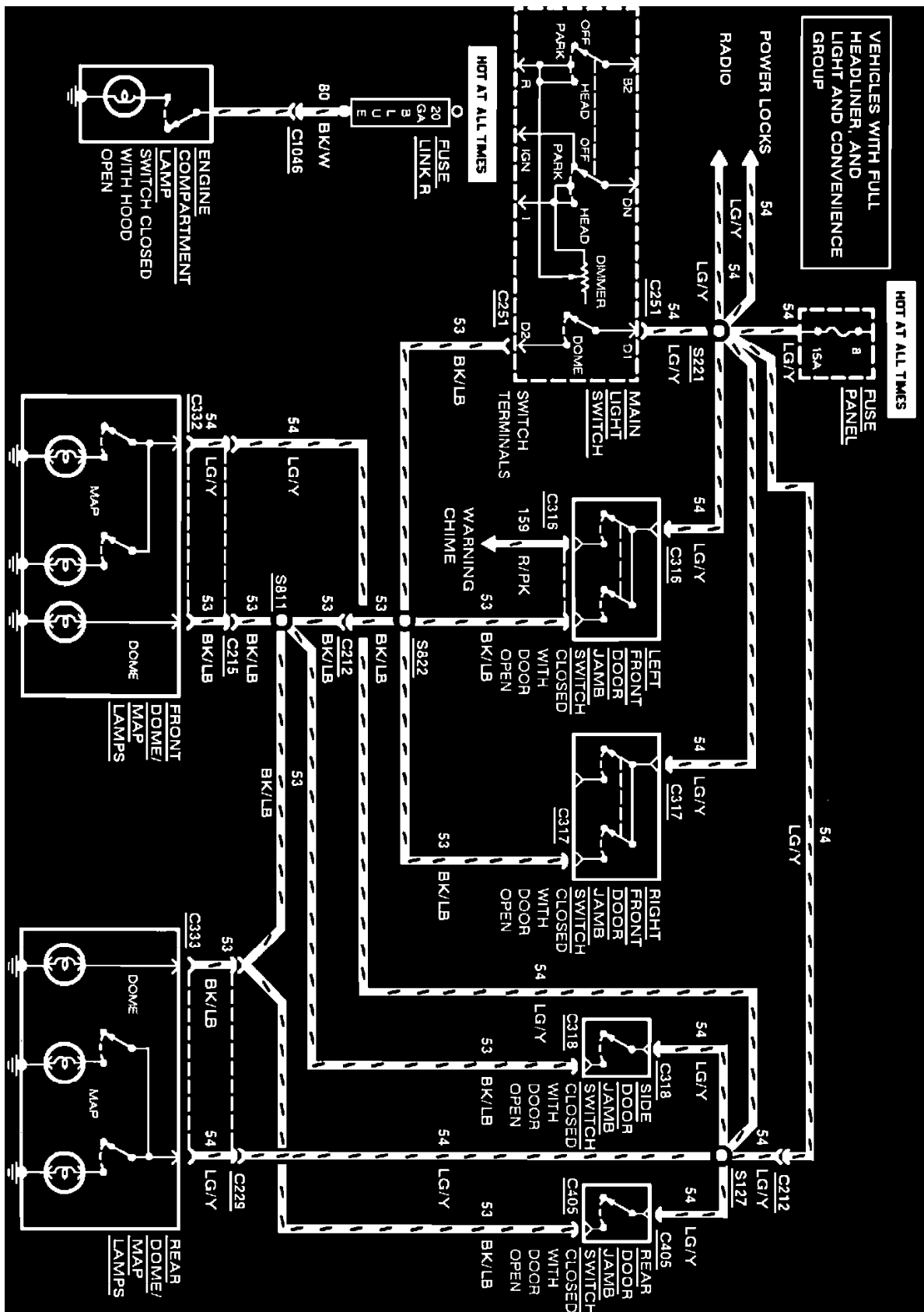
Courtesy Lamps



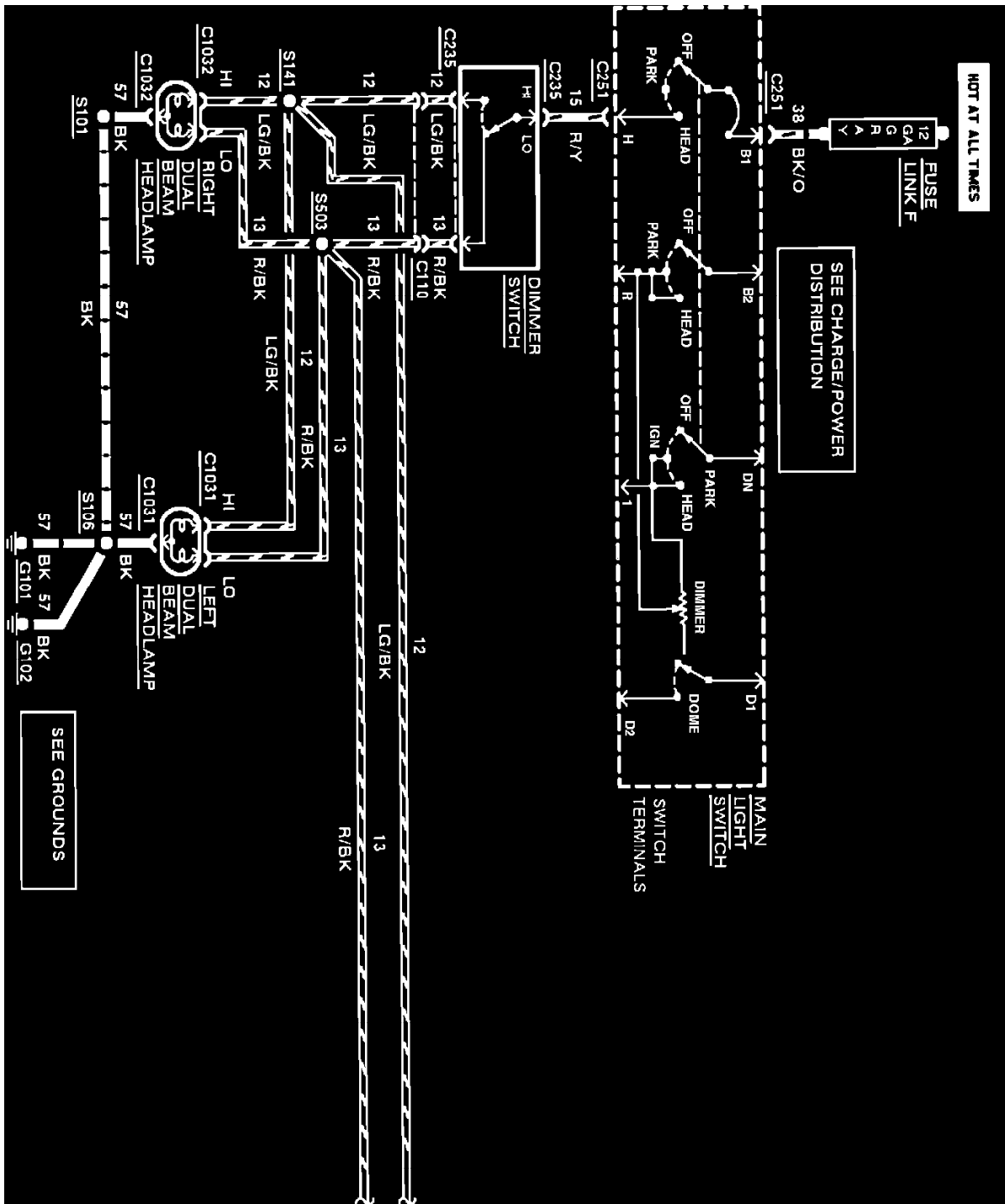
Courtesy Lamps



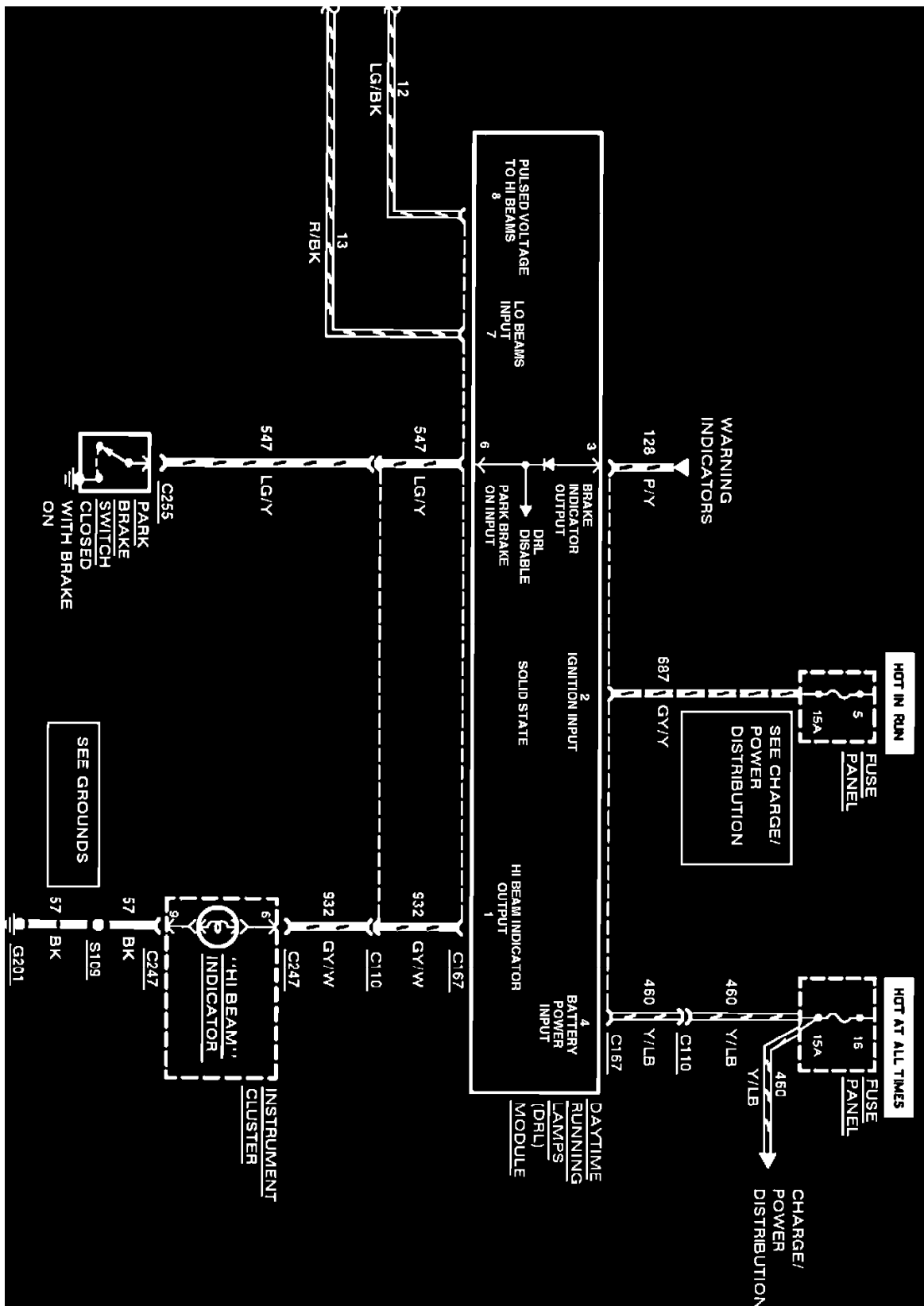
Courtesy Lamps



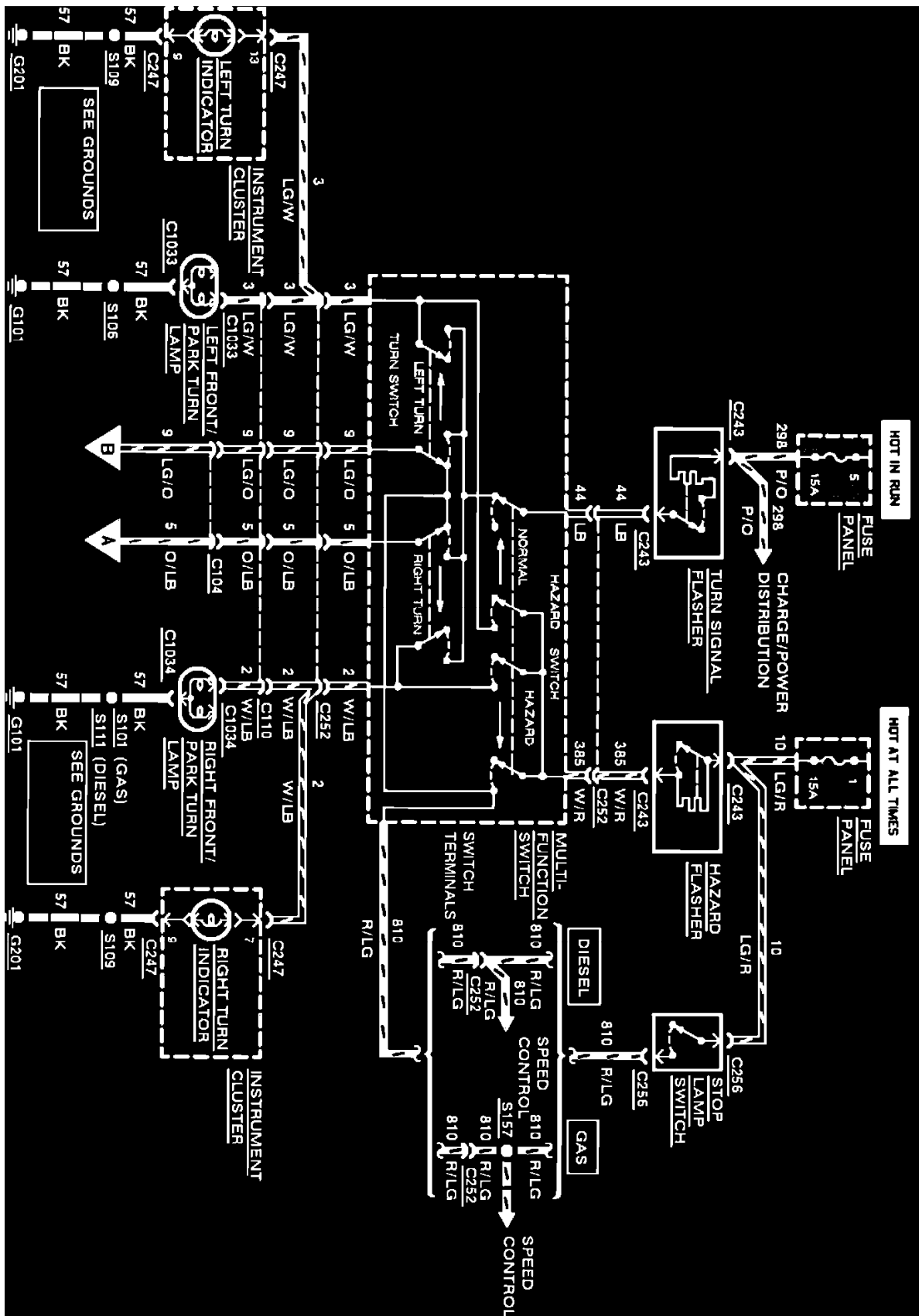
Courtesy Lamps



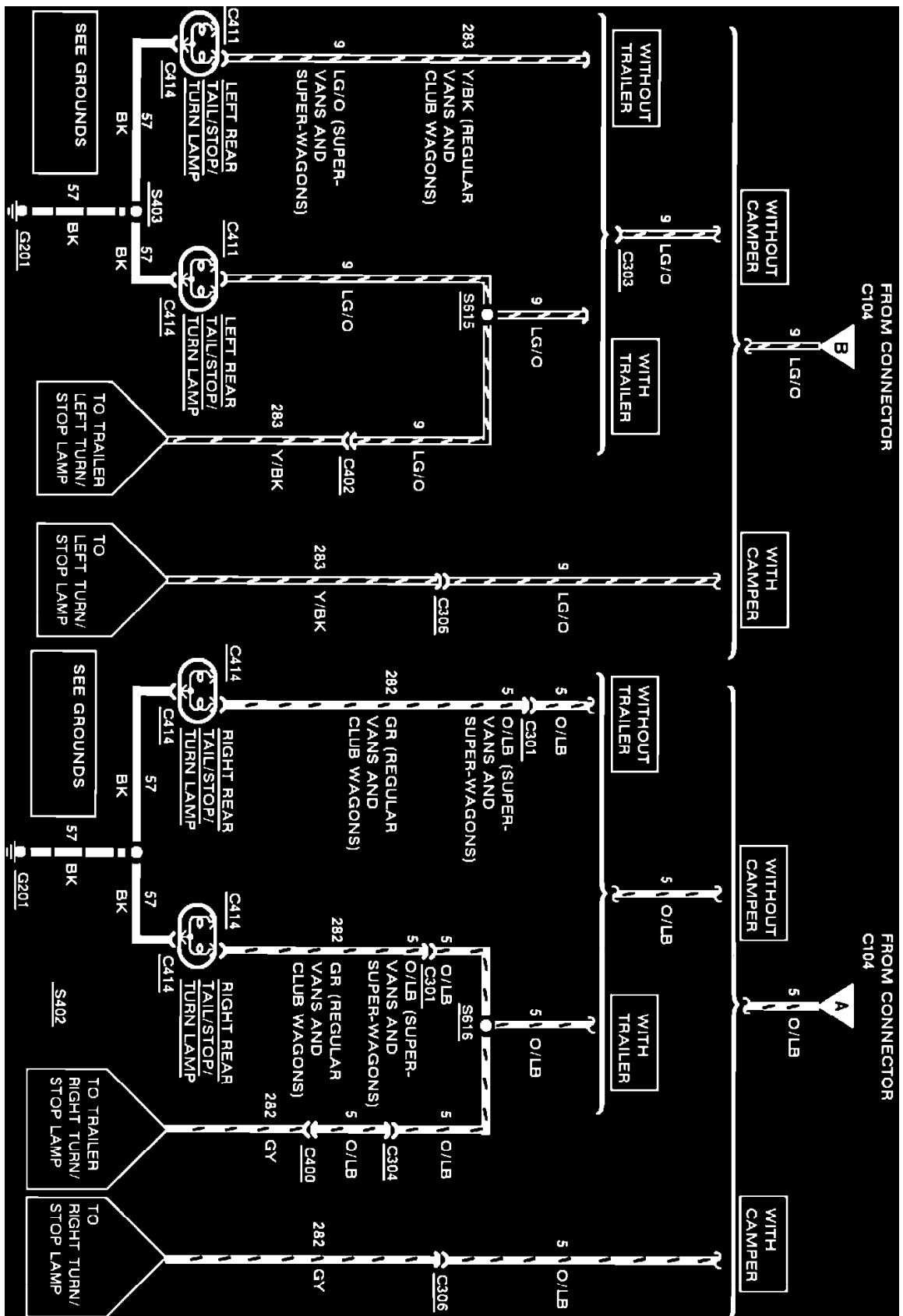
Daytime Running Lamps (Canada)



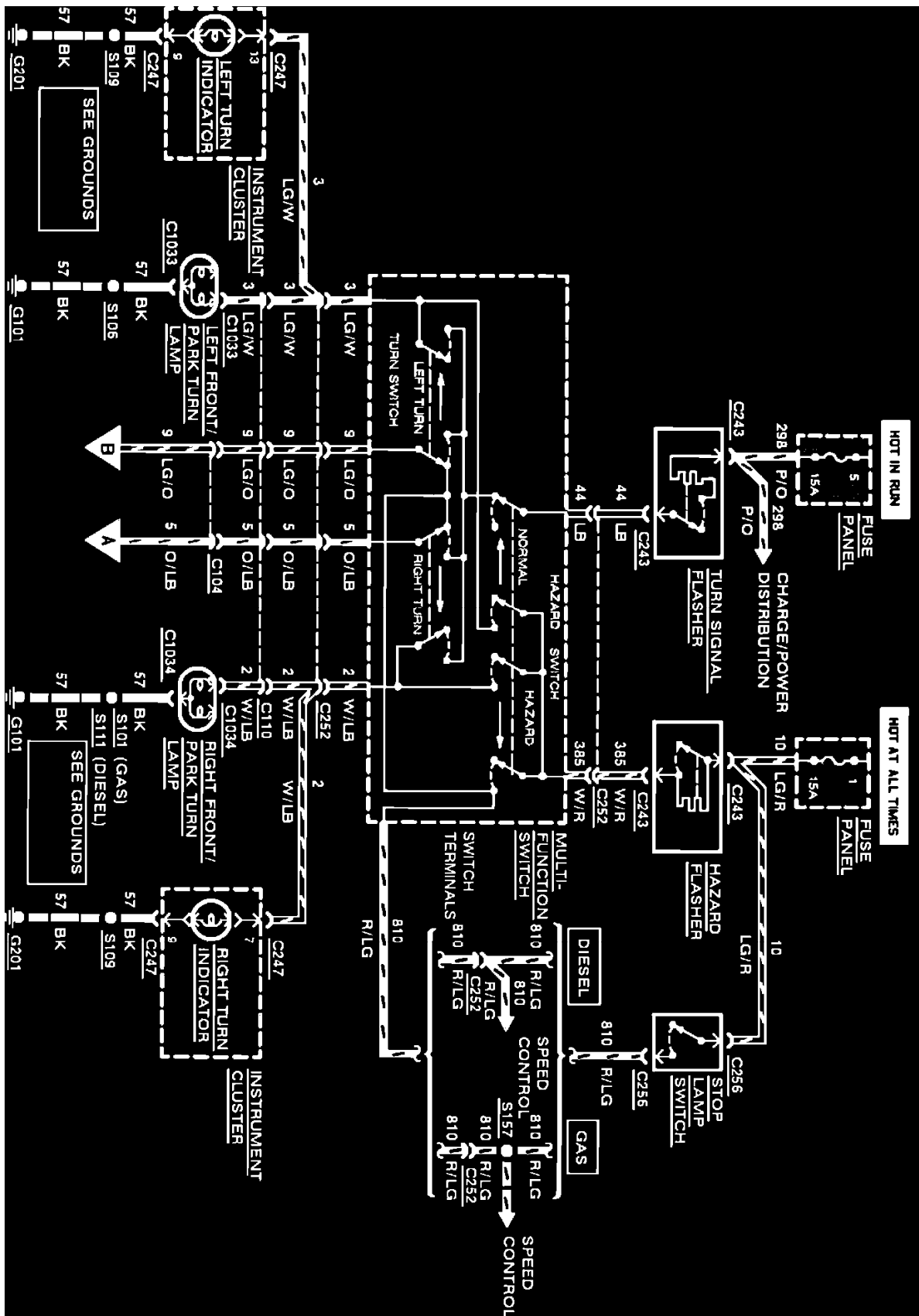
Daytime Running Lamps (Canada)



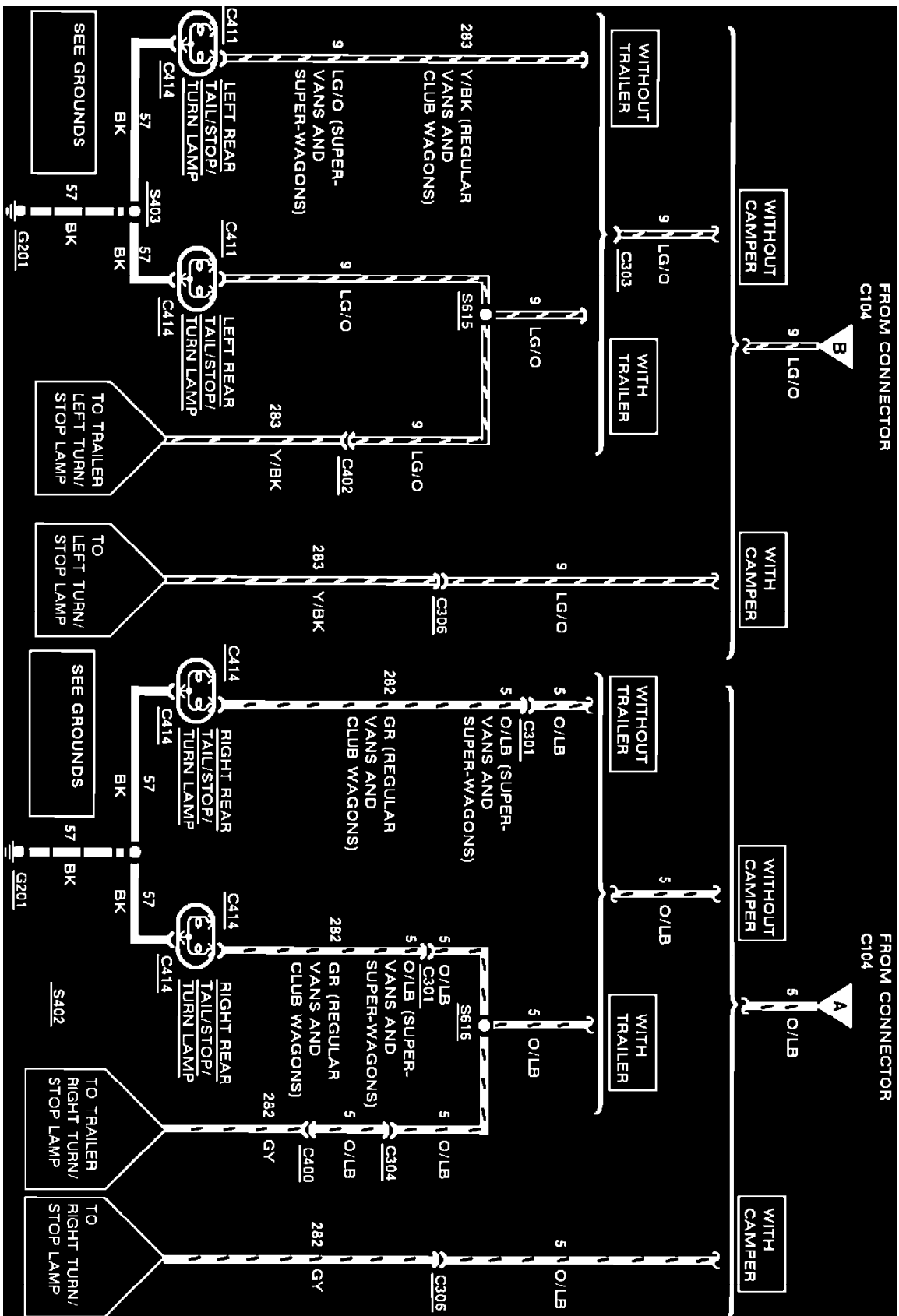
Turn/Stop/Hazard Lamps



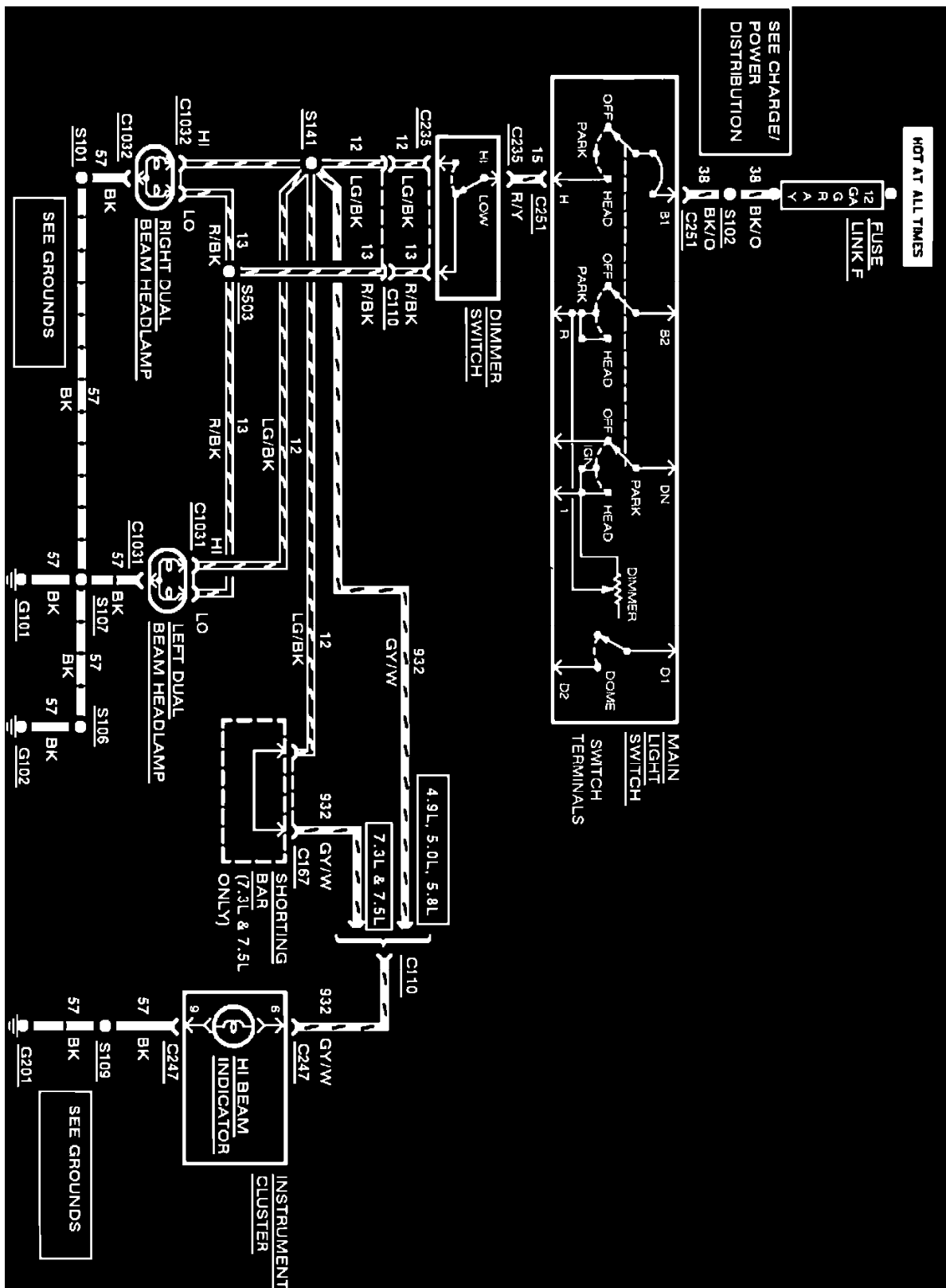
Turn/Stop/Hazard Lamps



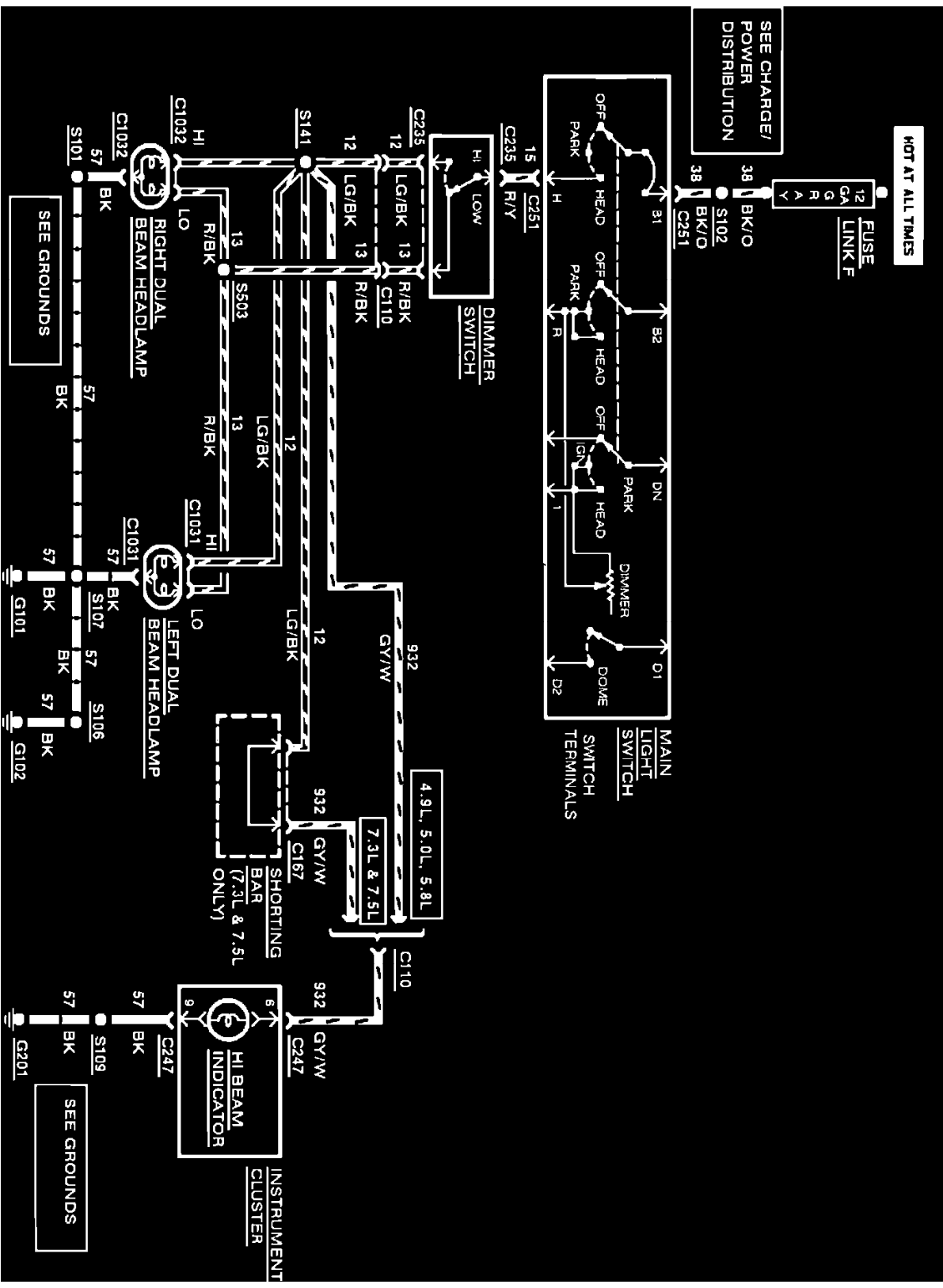
Turn/Stop/Hazard Lamps



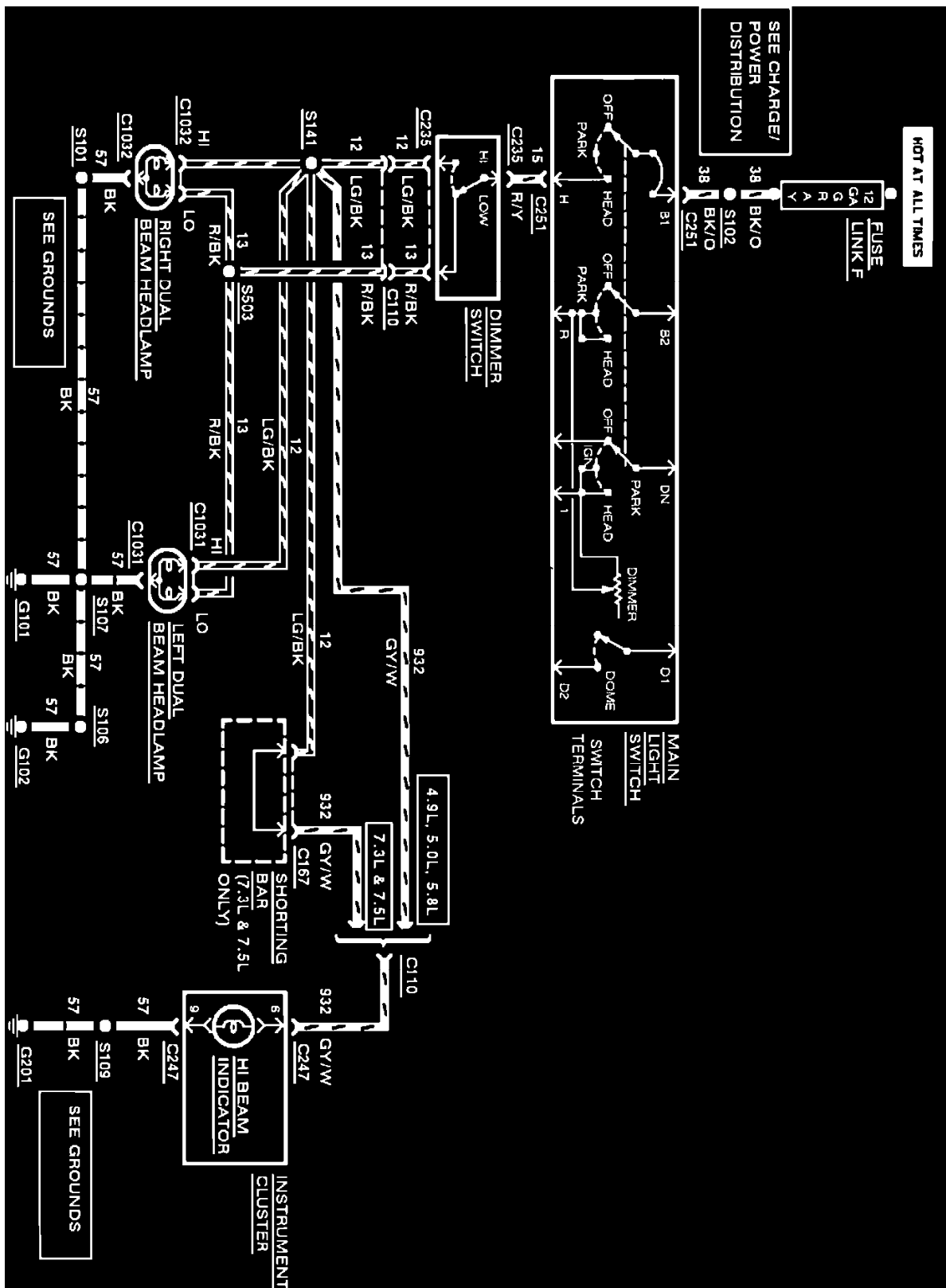
Turn/Stop/Hazard Lamps



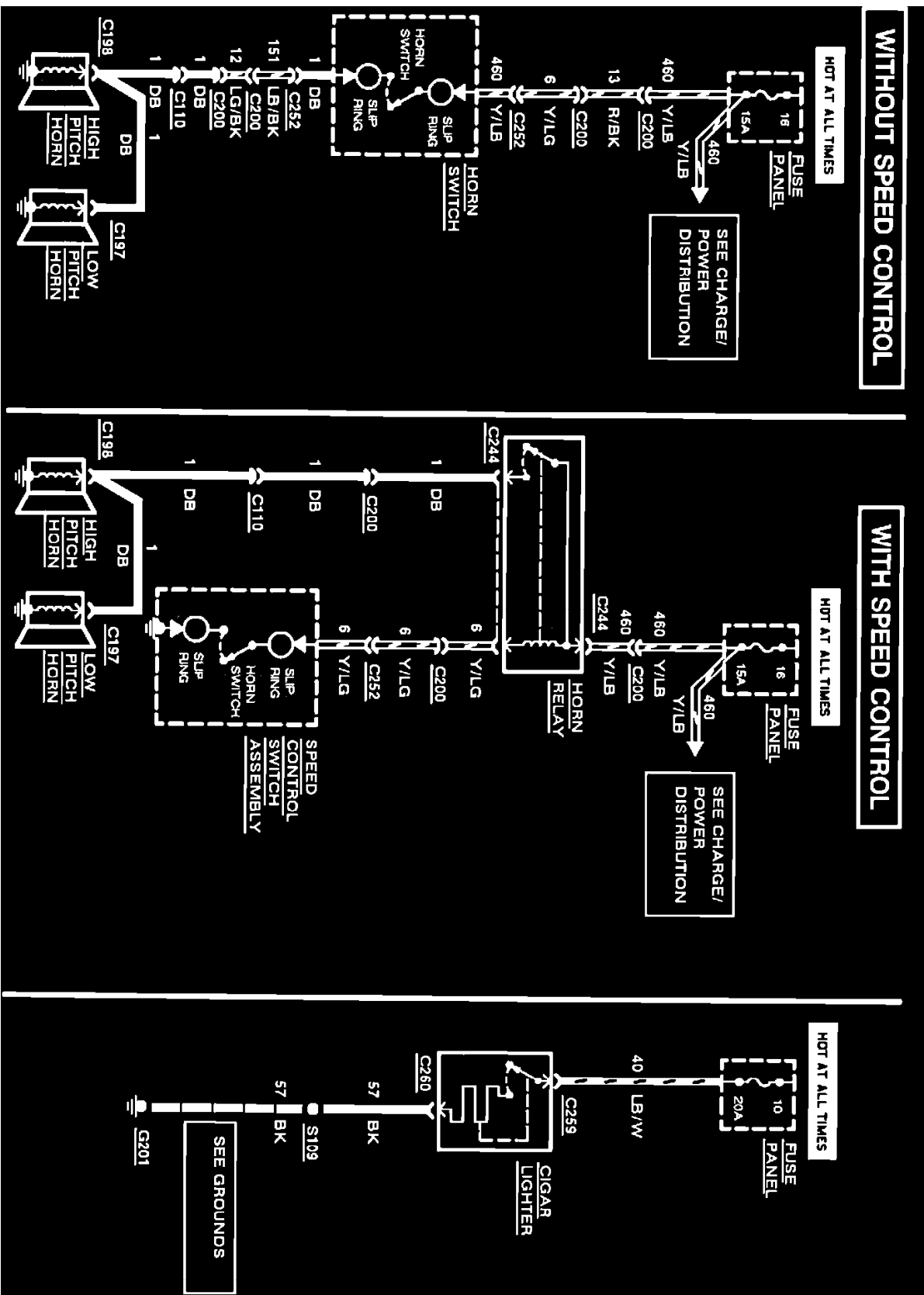
Headlamps (Without Daytime Running Lights)



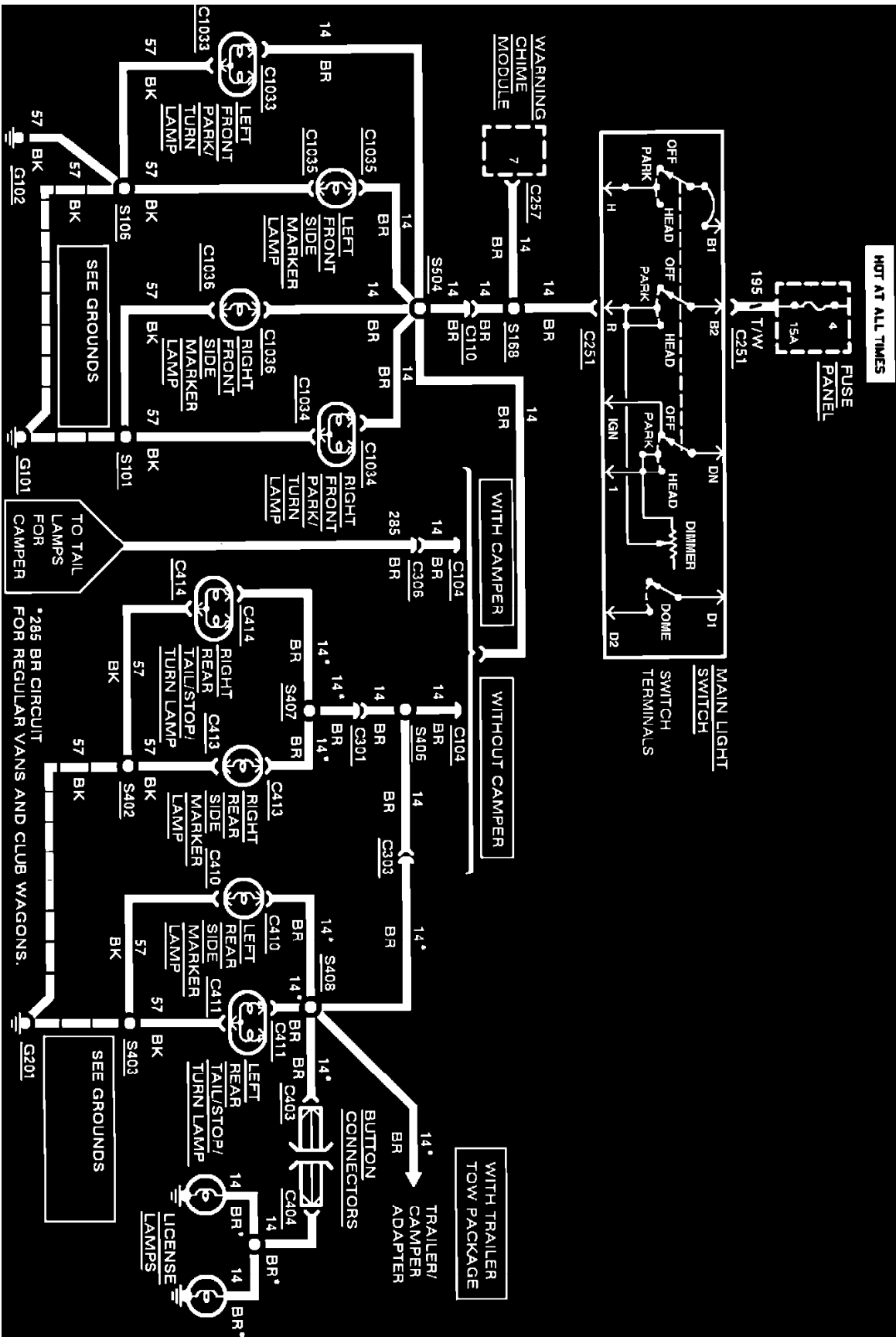
Headlamps (Without Daytime Running Lights)



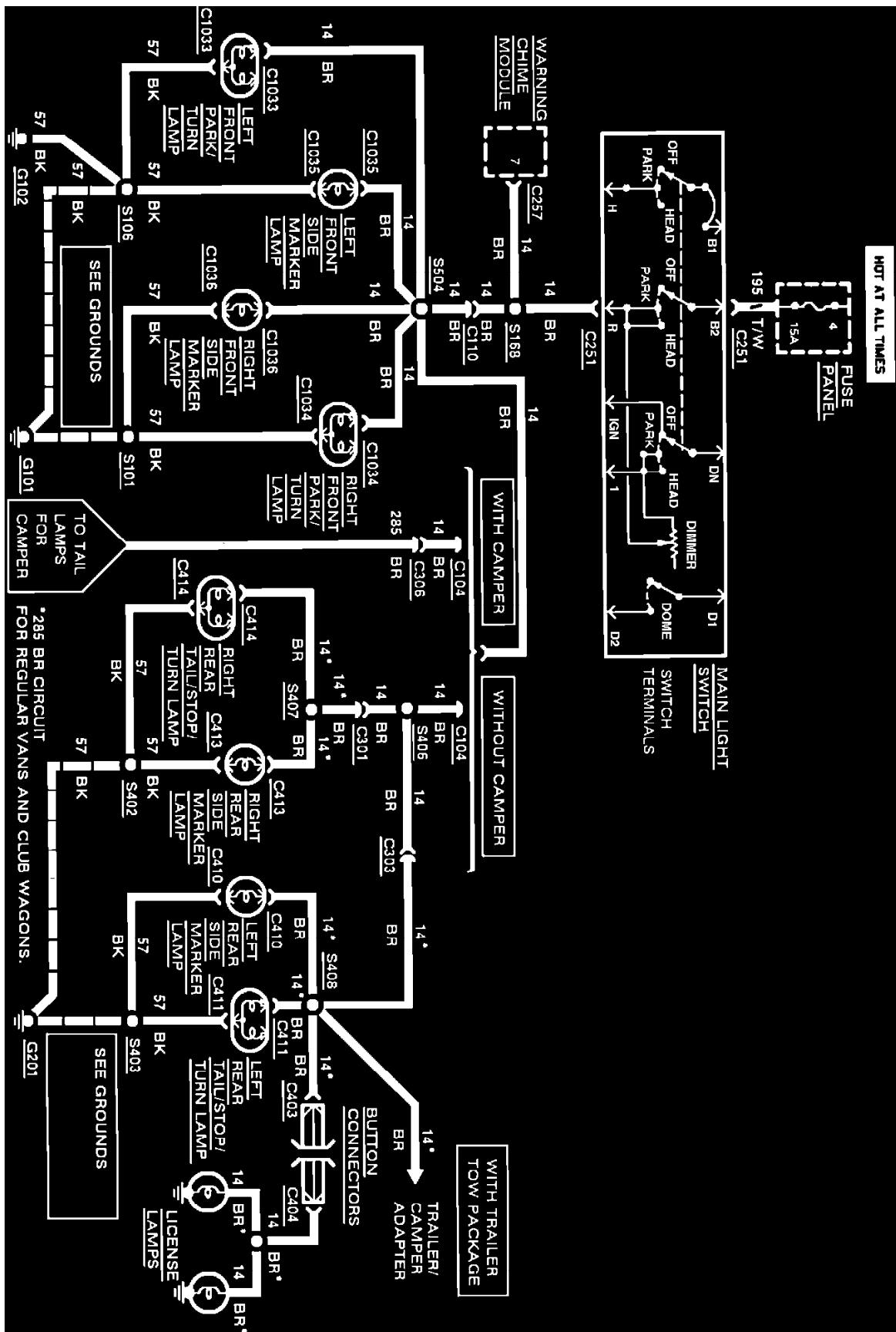
Headlamps (Without Daytime Running Lights)



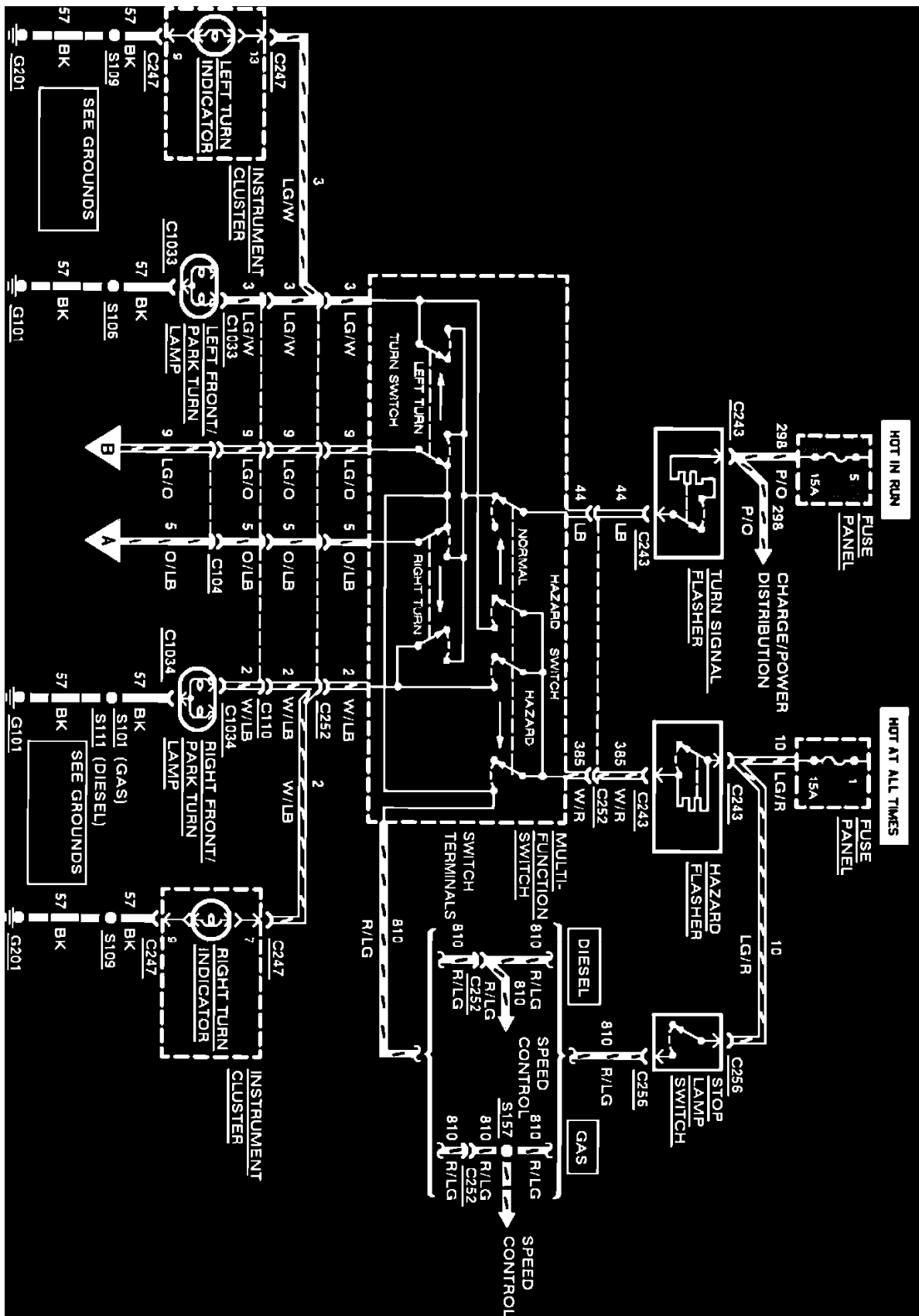
Horn/Cigar Lighter



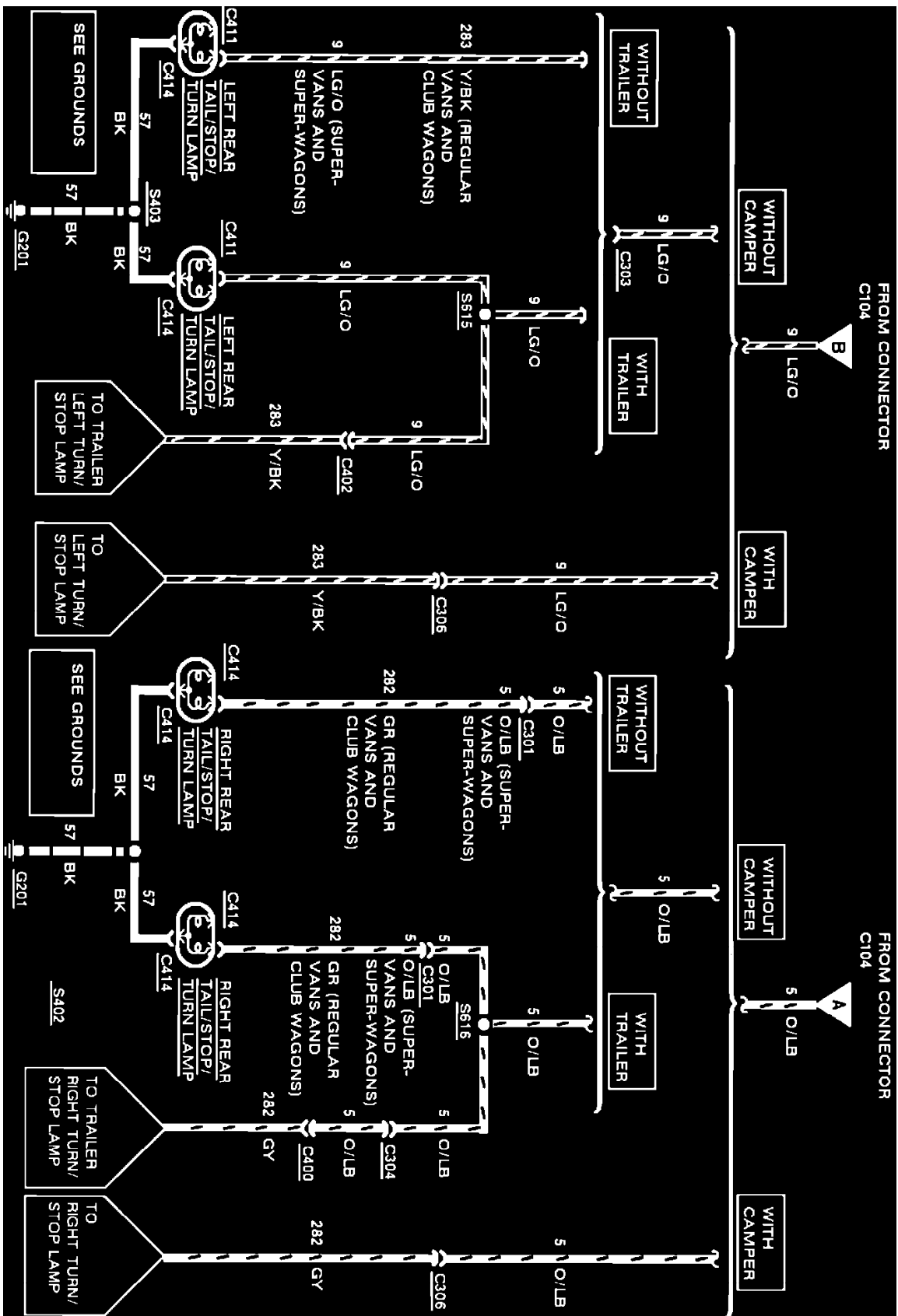
Exterior Lamps (Marker, Park, And License)



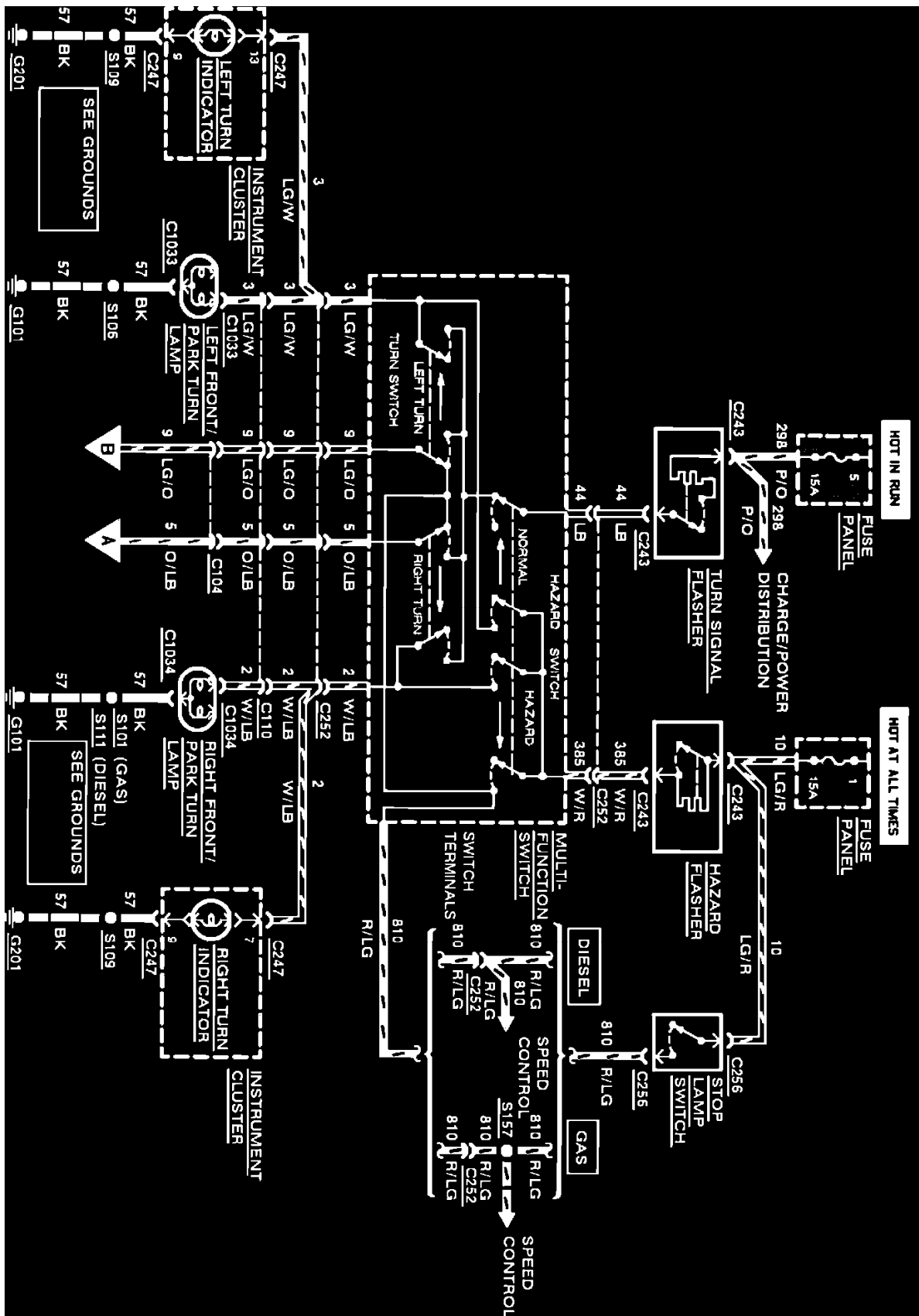
Exterior Lamps (Marker,Park, And License)



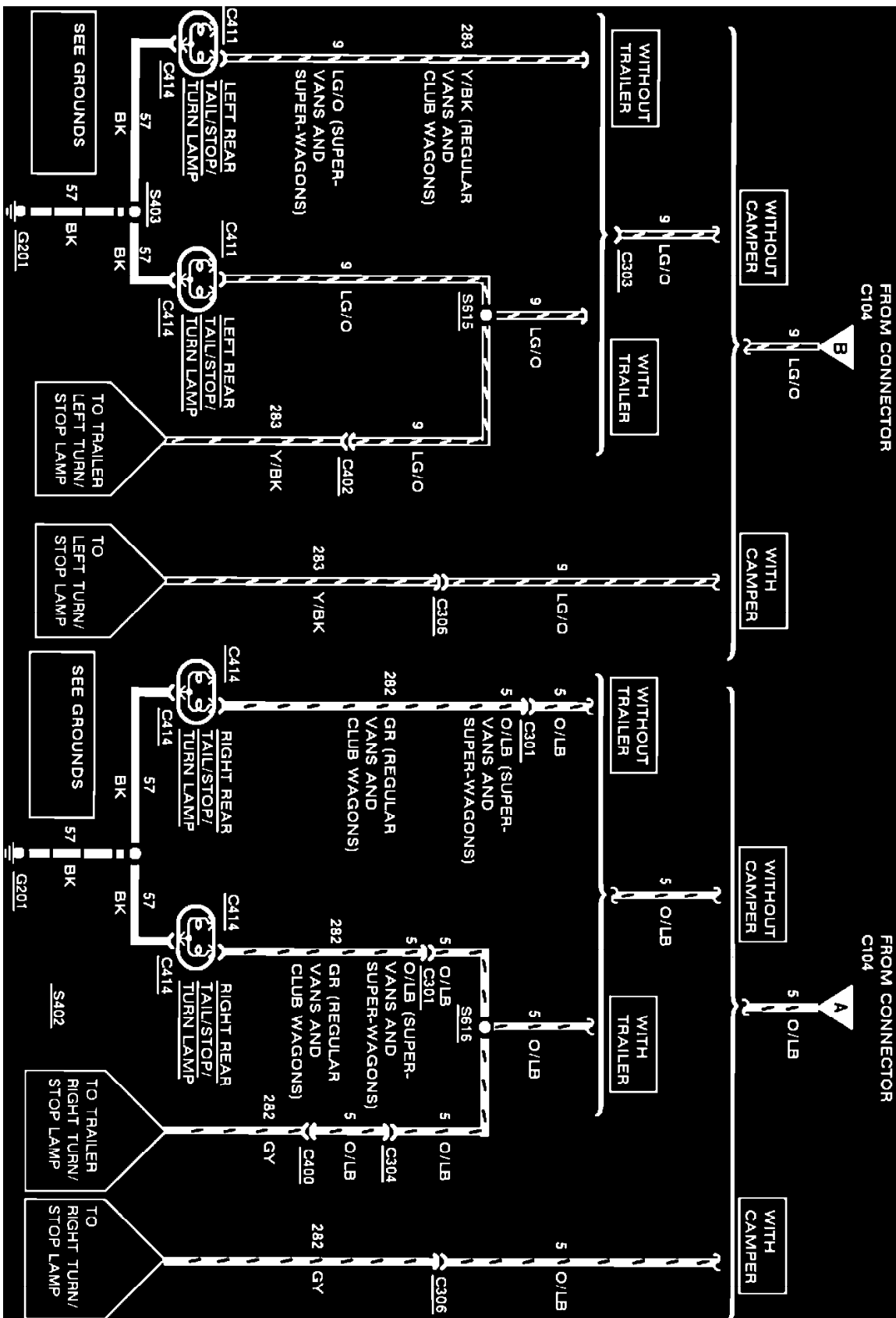
Turn/Stop/Hazard Lamps



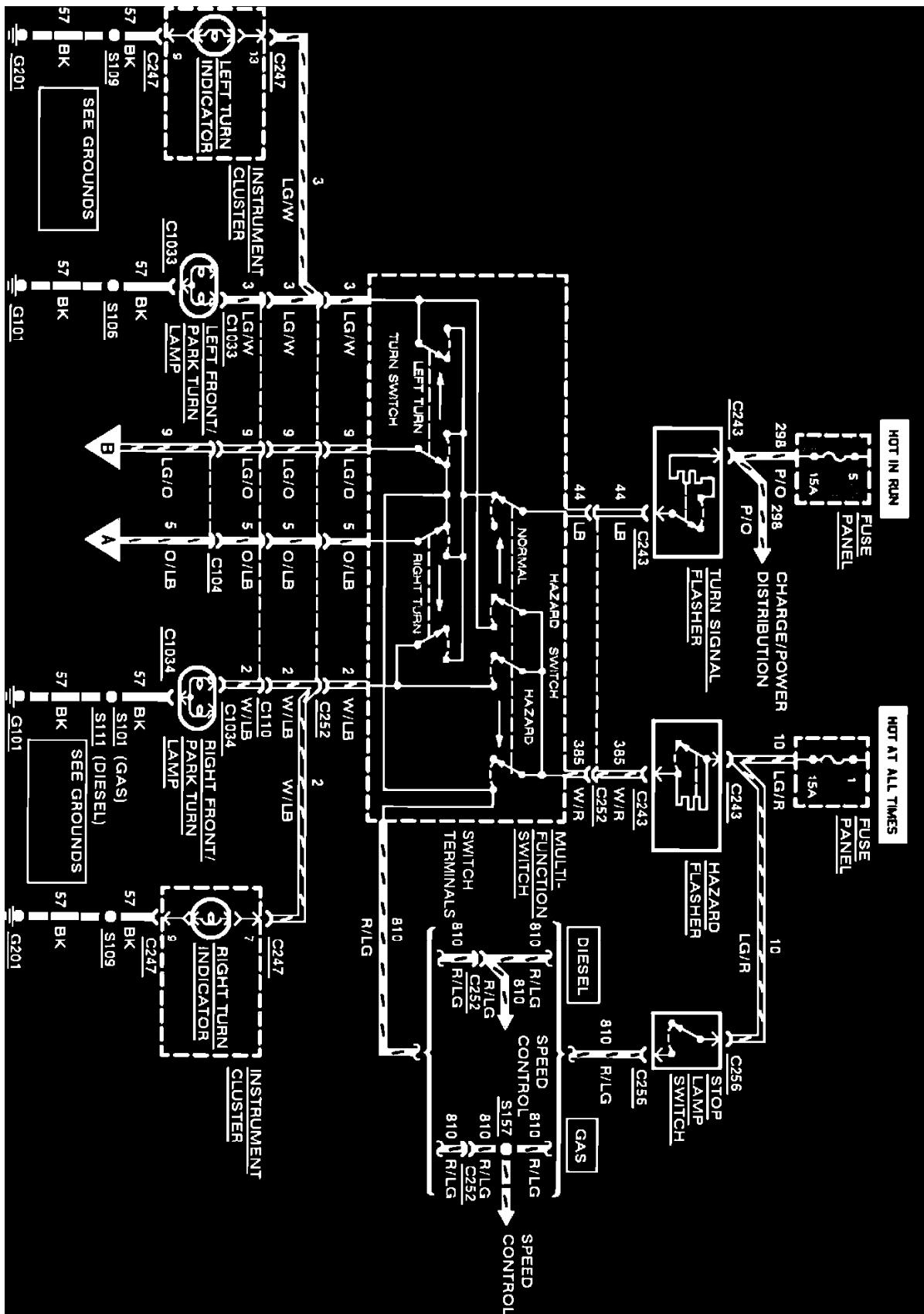
Turn/Stop/Hazard Lamps



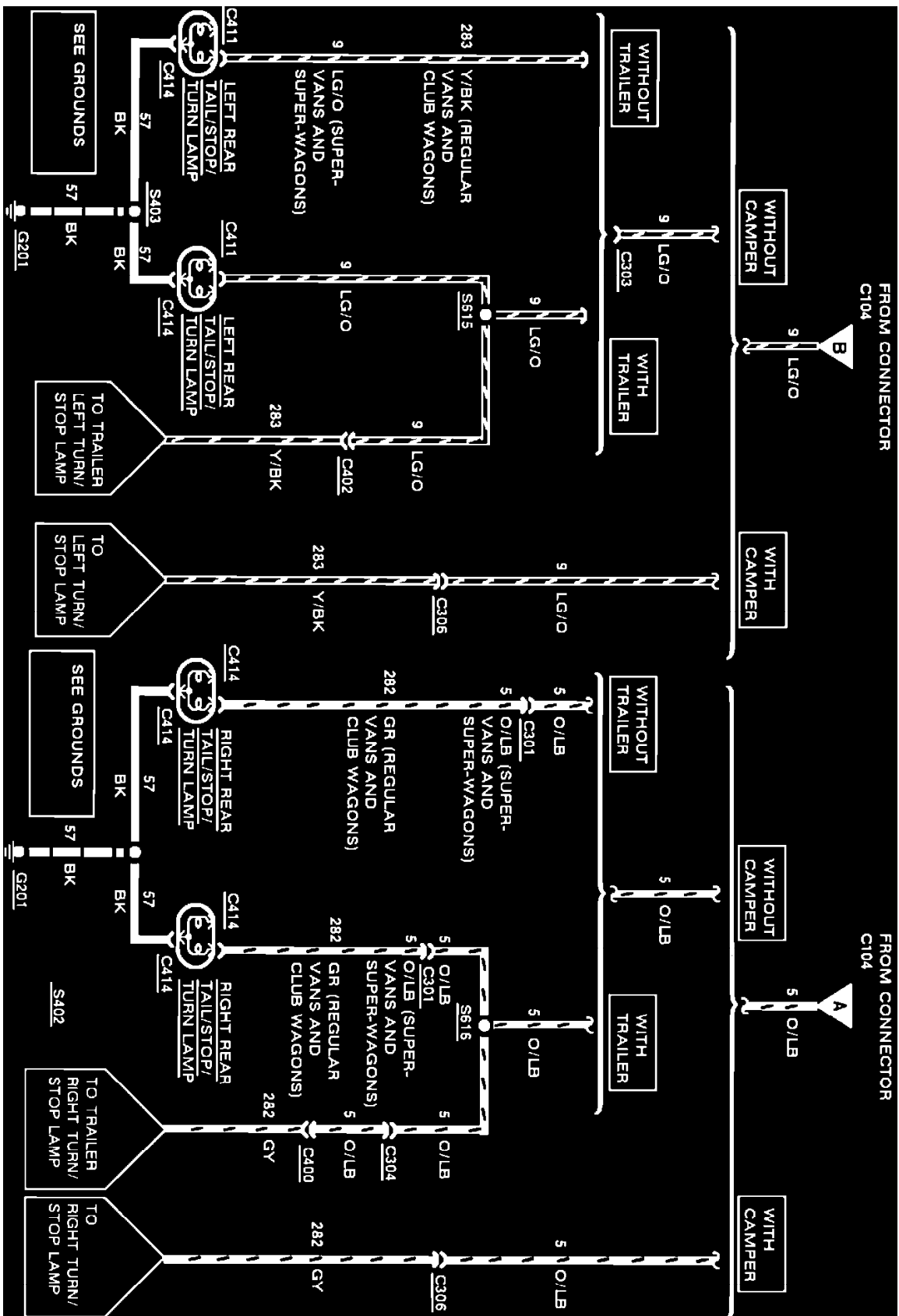
Turn/Stop/Hazard Lamps



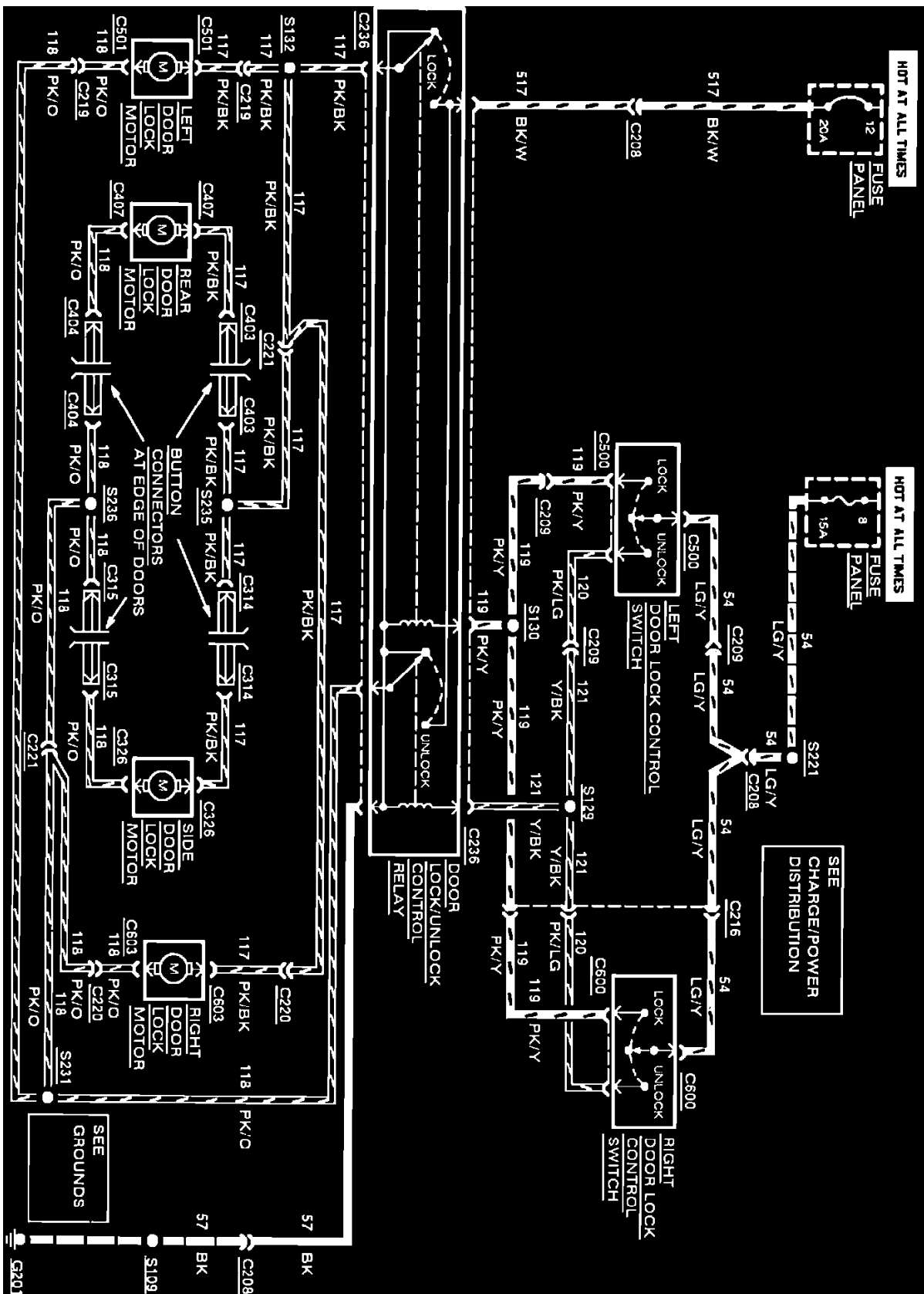
Turn/Stop/Hazard Lamps



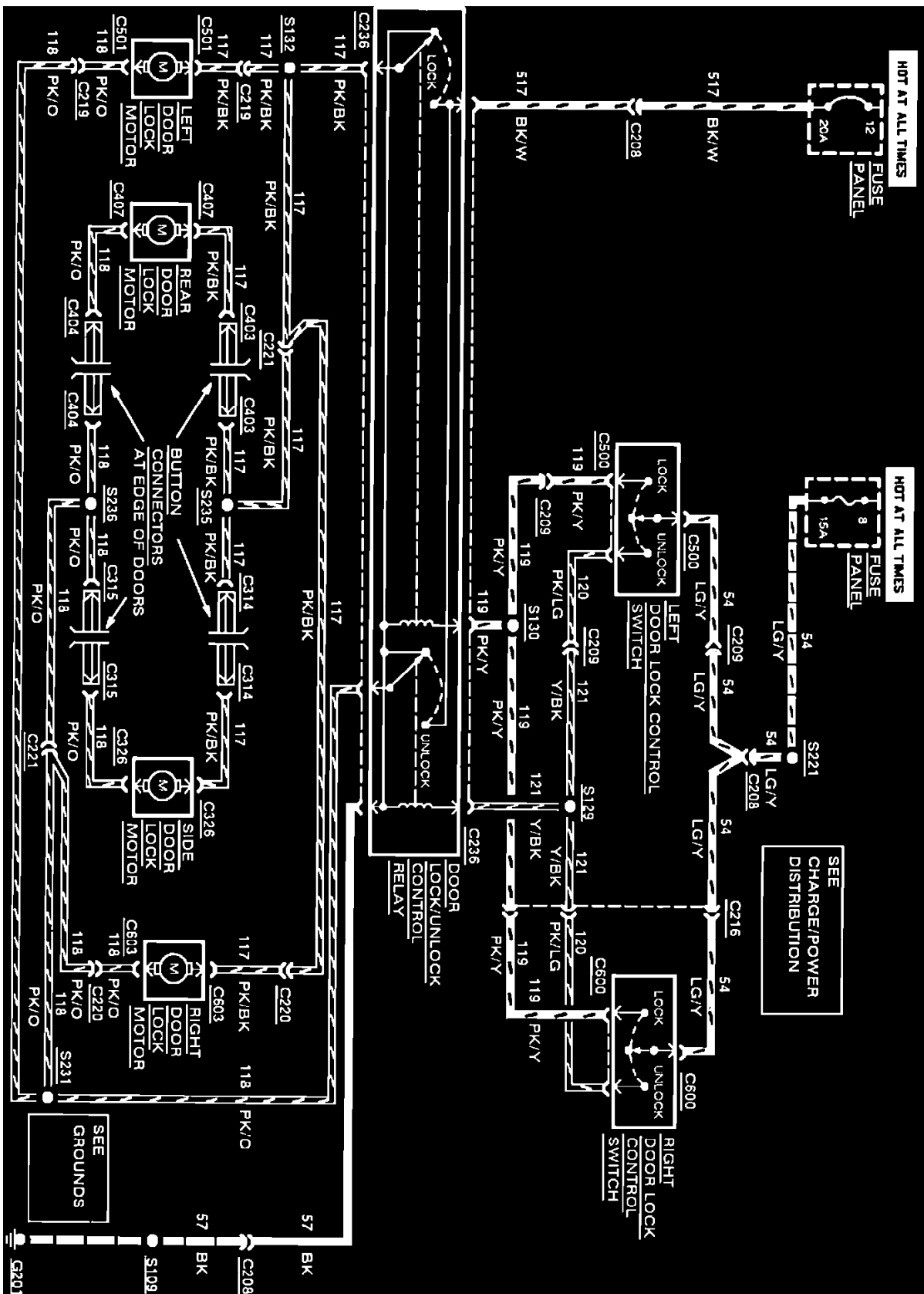
Turn/Stop/Hazard Lamps



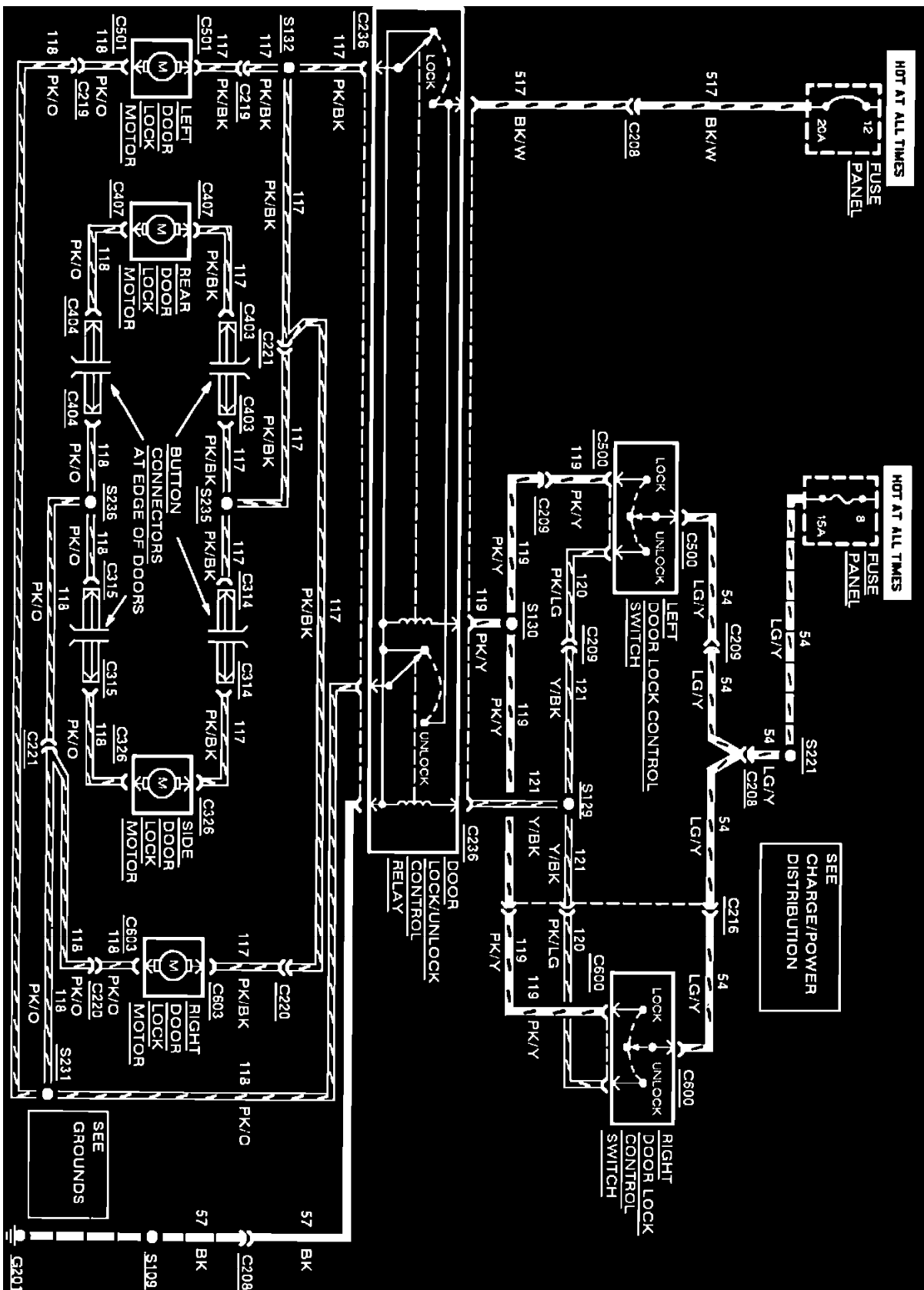
Turn/Stop/Hazard Lamps



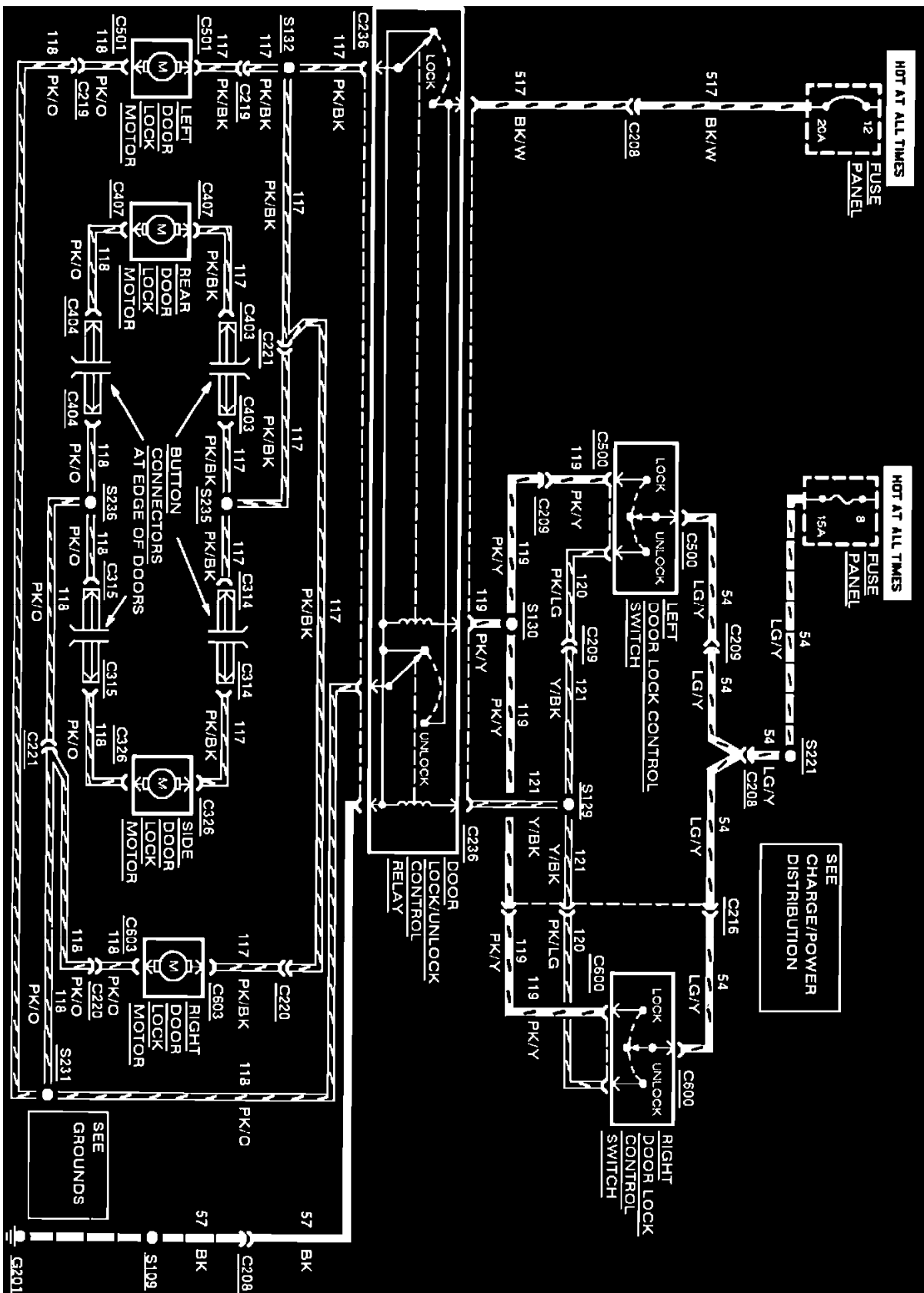
Power Door Locks



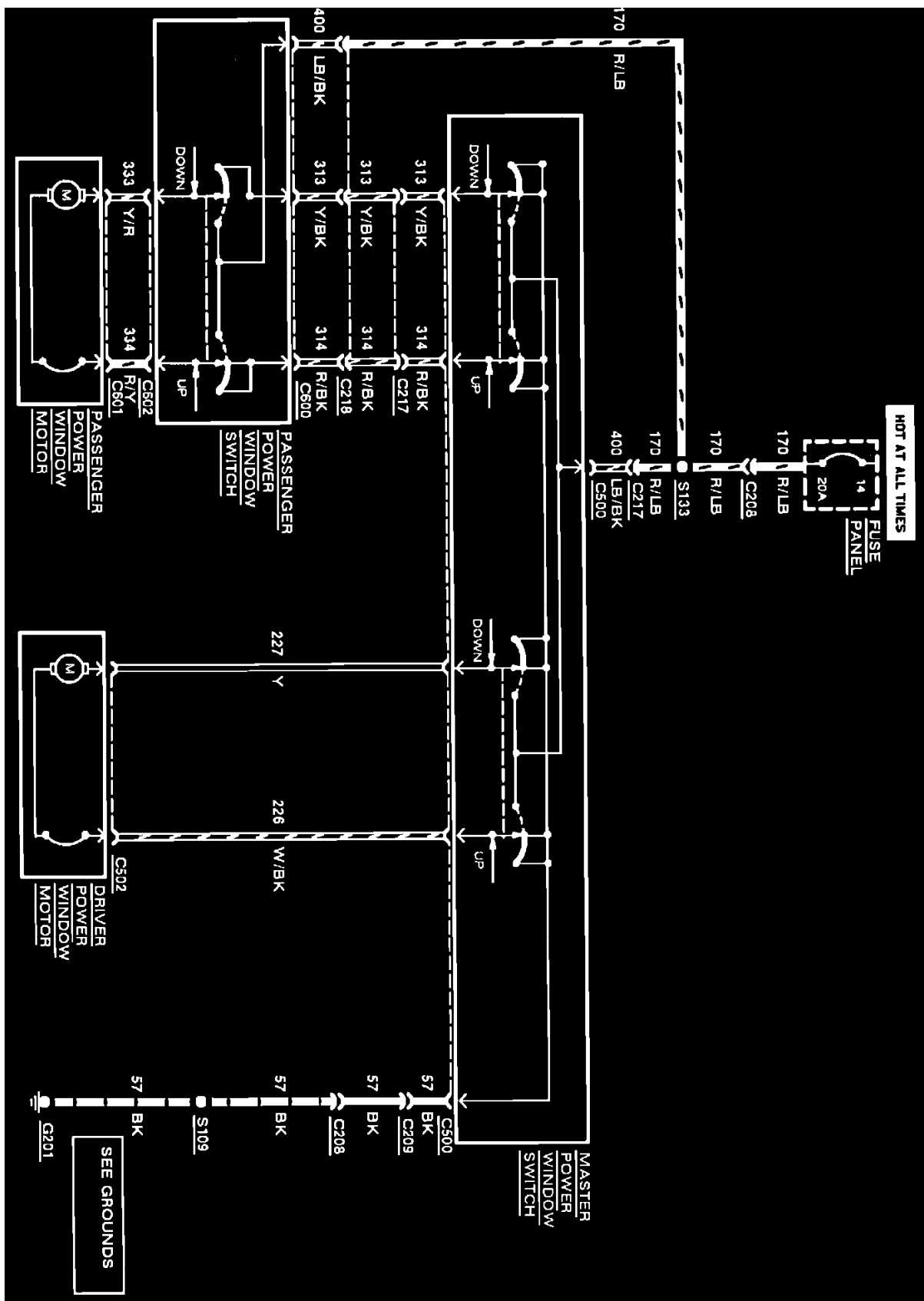
Power Door Locks



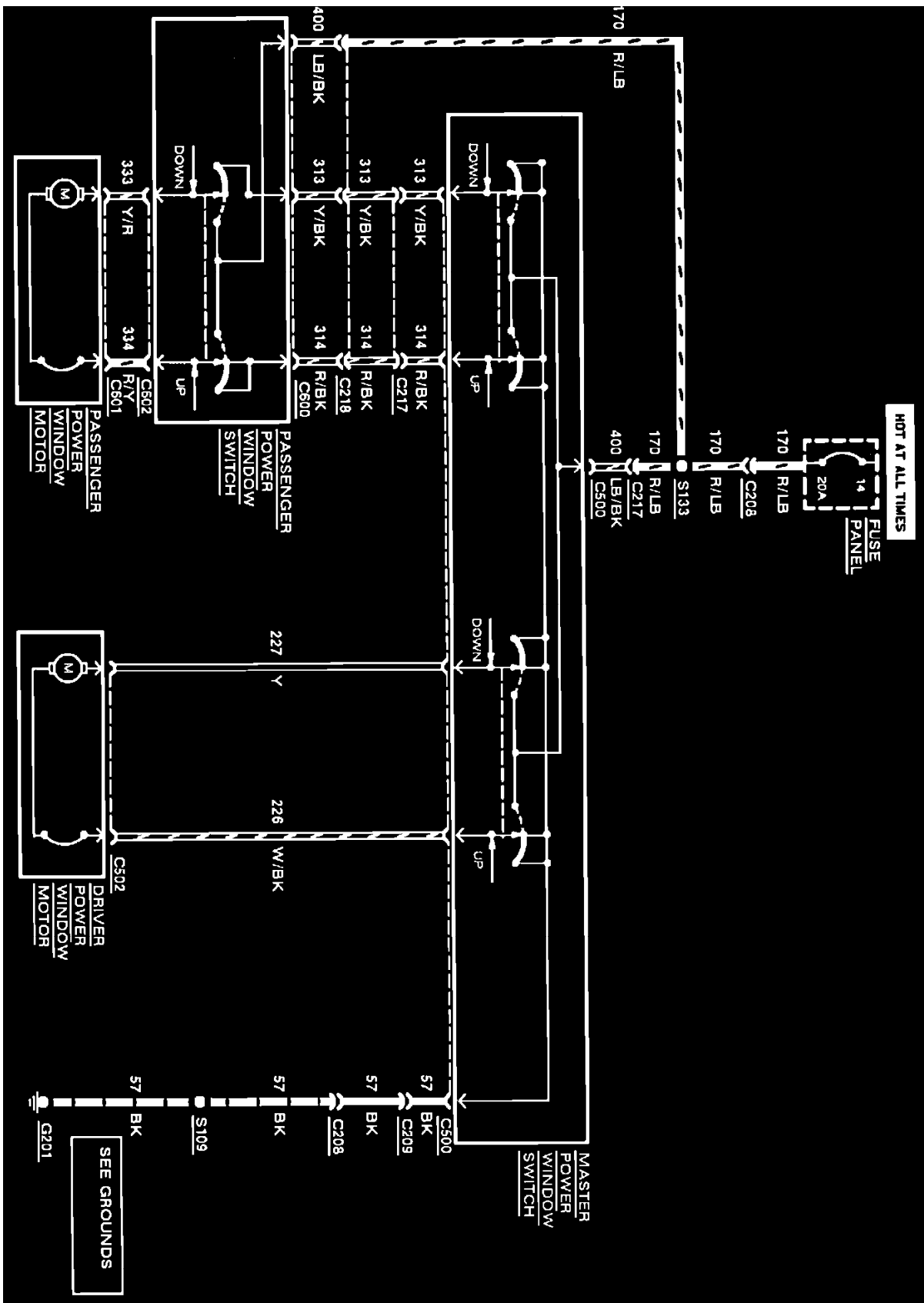
Power Door Locks



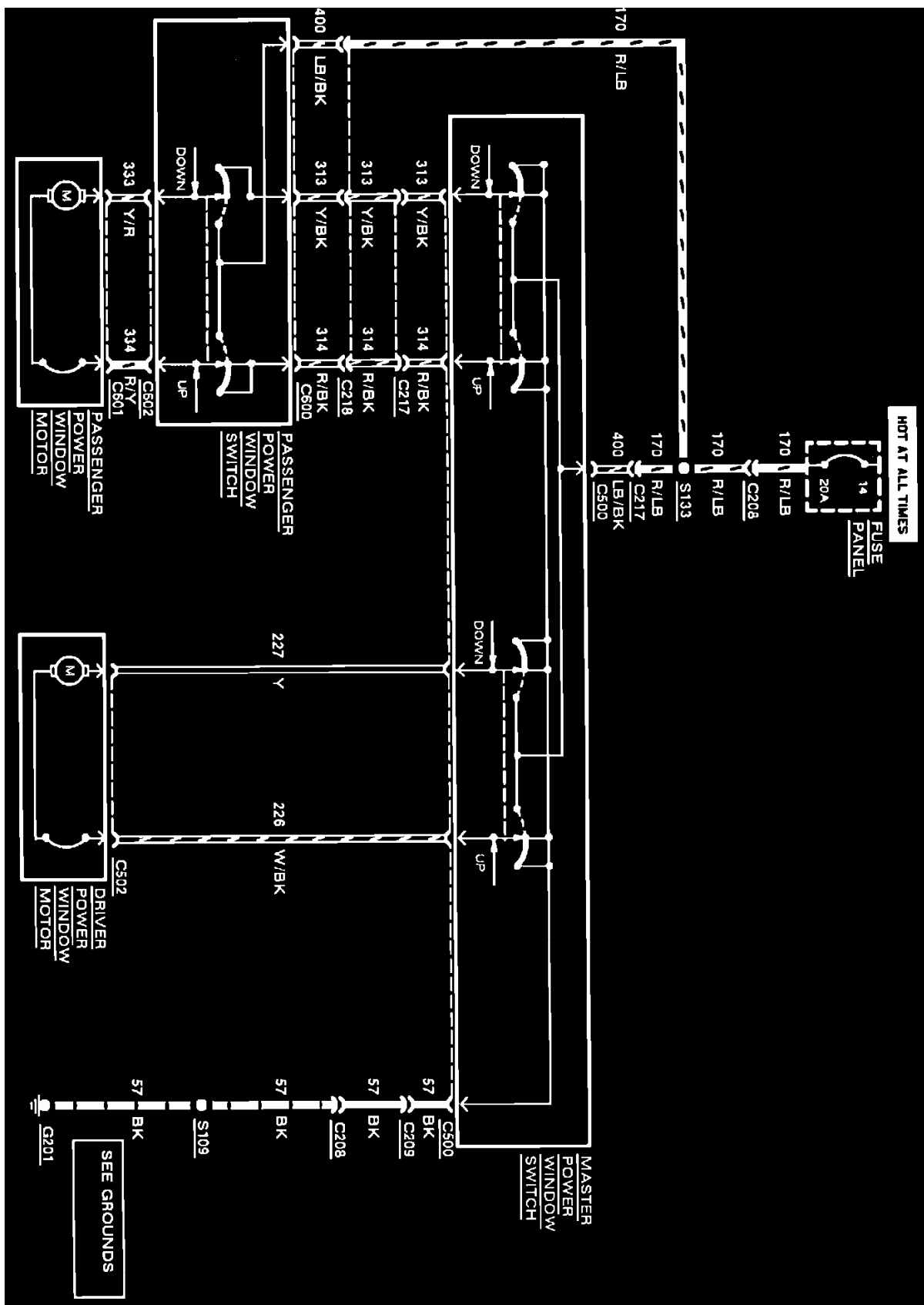
Power Door Locks



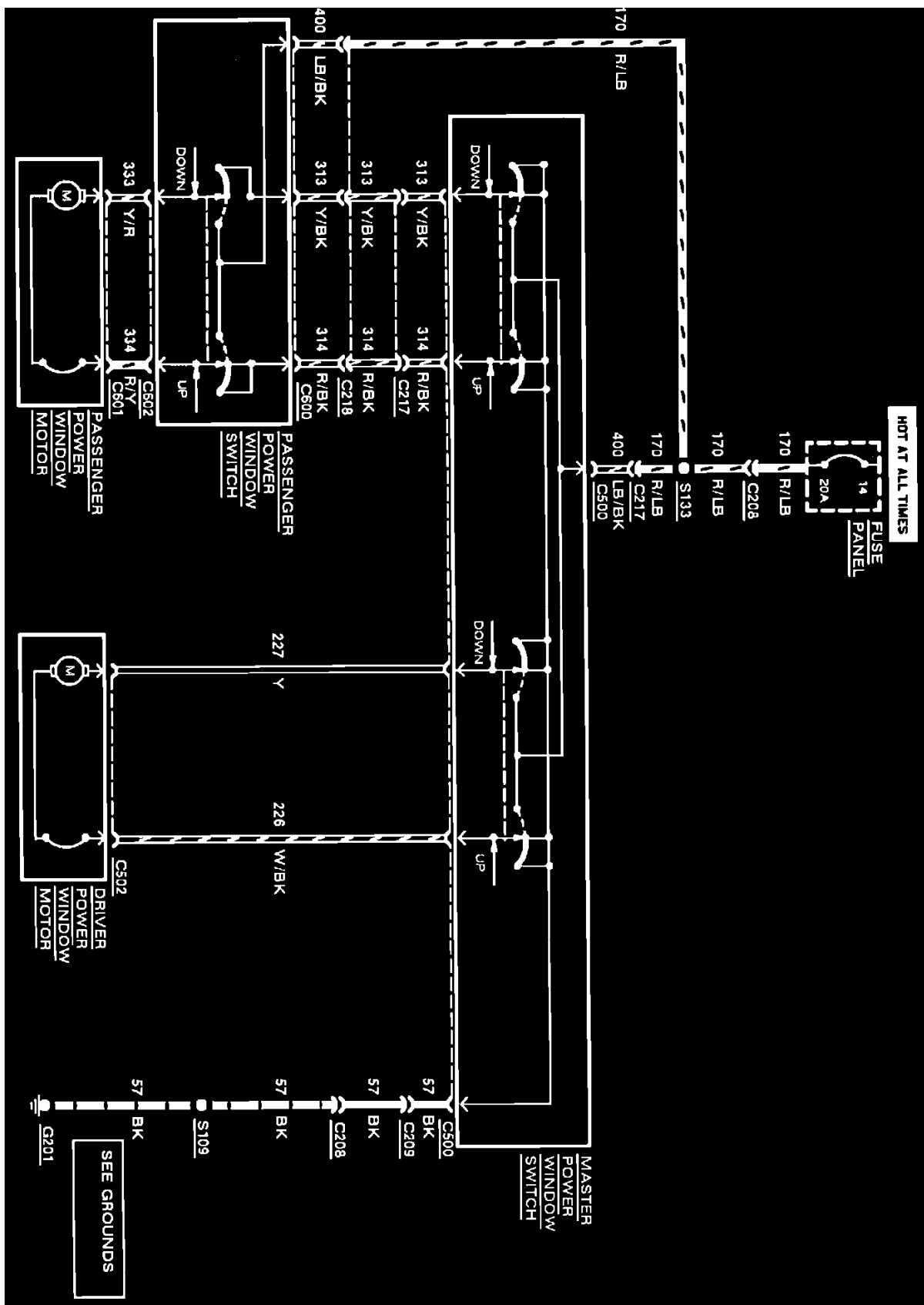
Power Windows



Power Windows

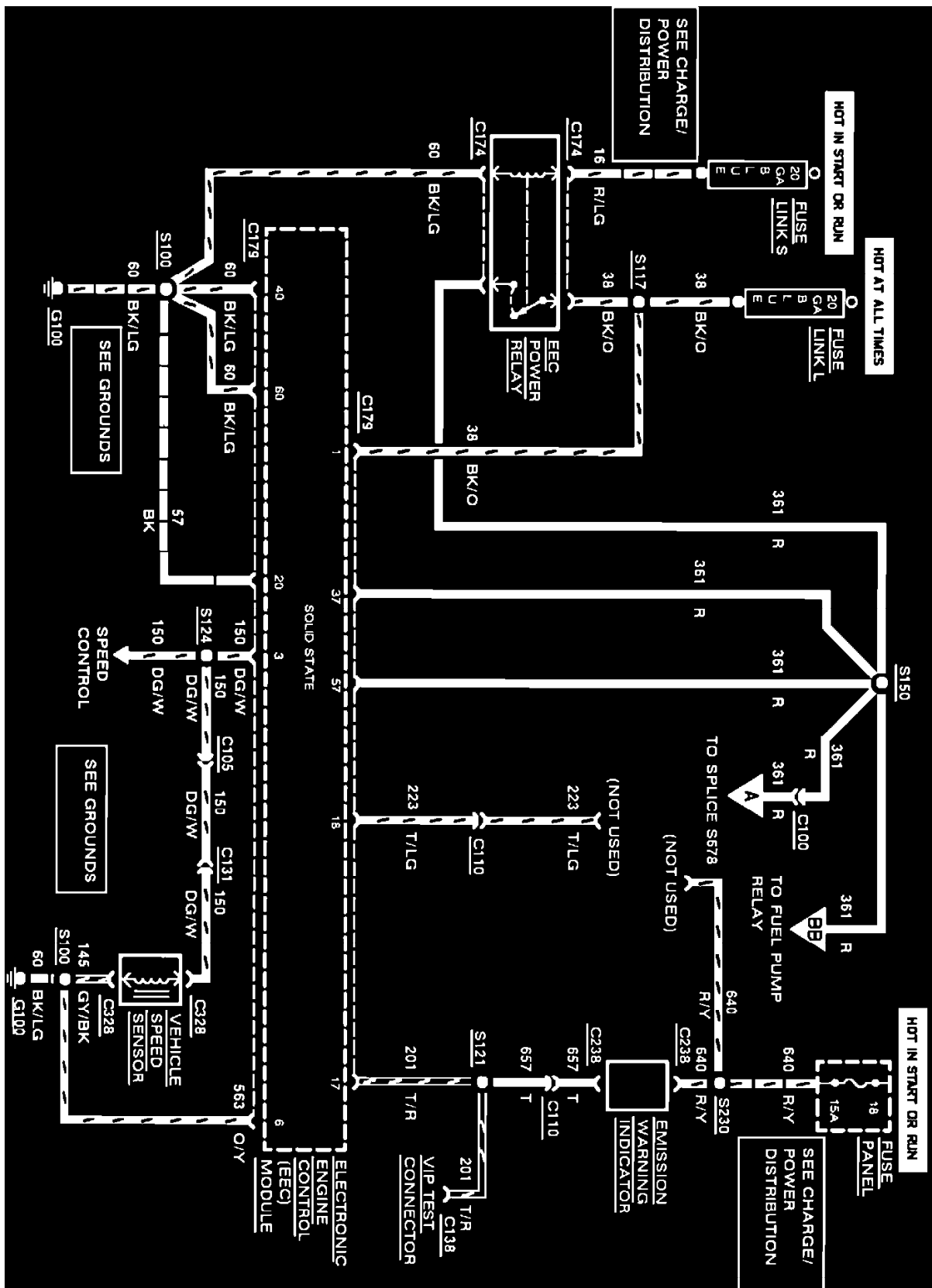


Power Windows

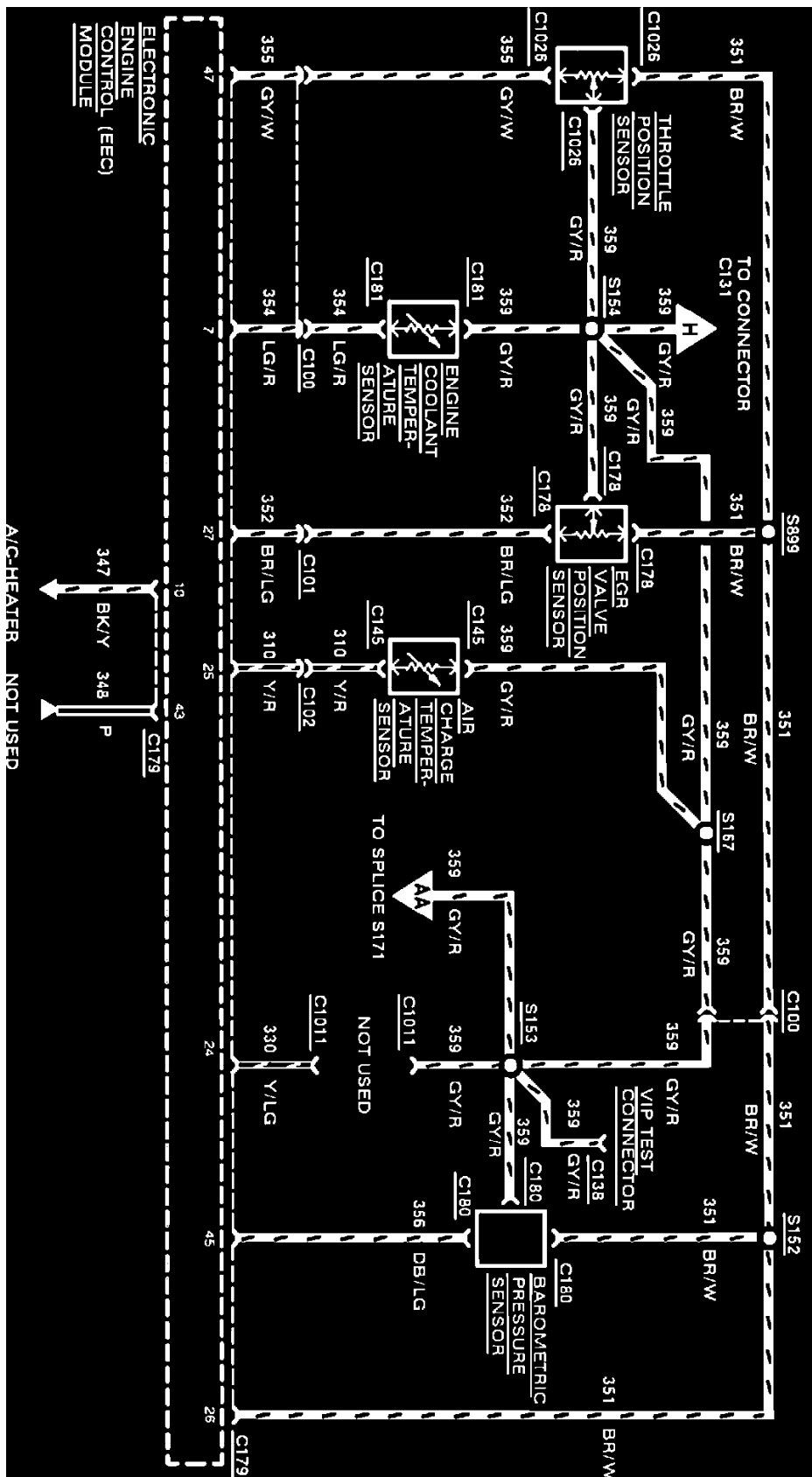


Power Windows

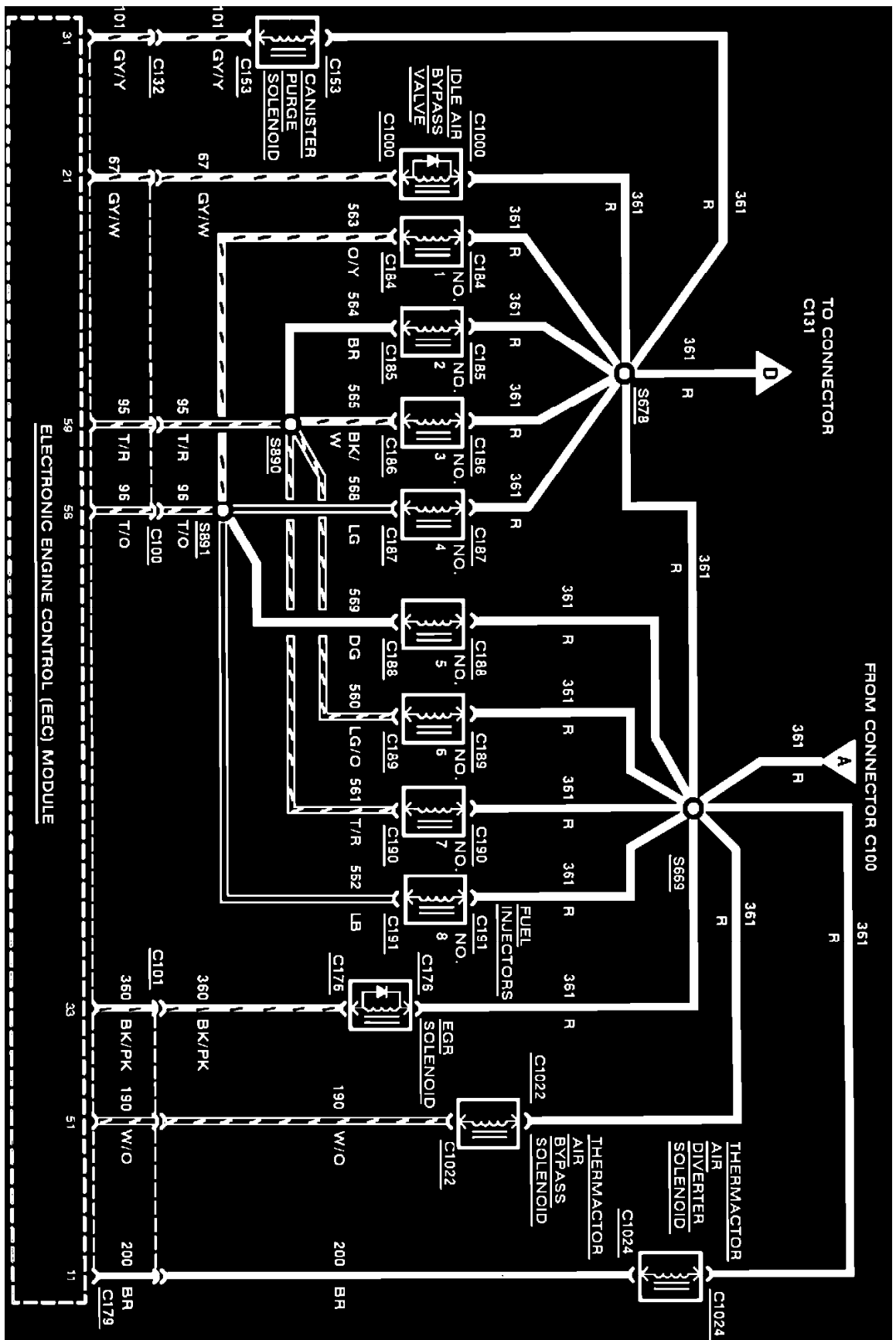
System Diagram



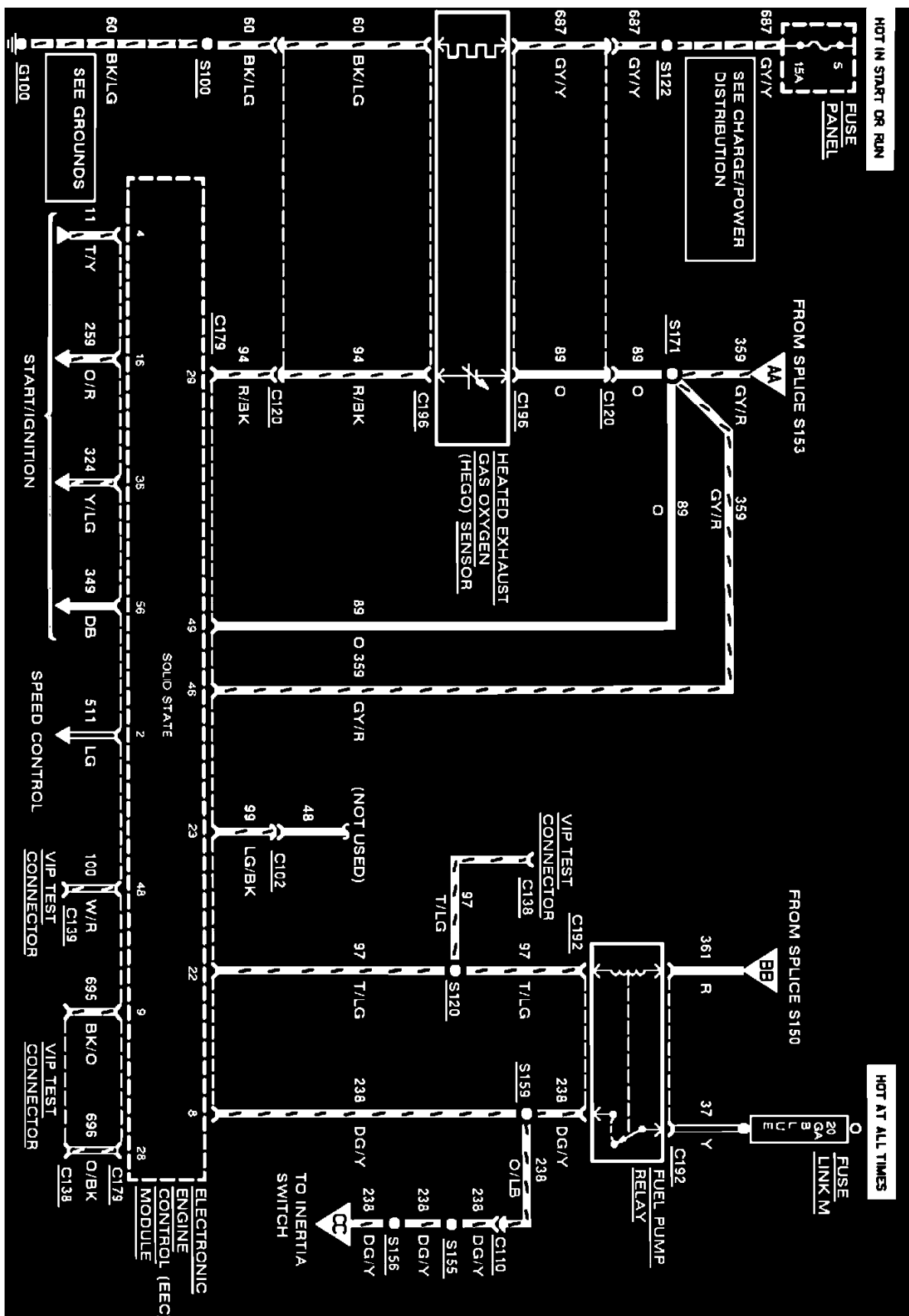
Engine Control (Electronic)



Electronic Engine Control

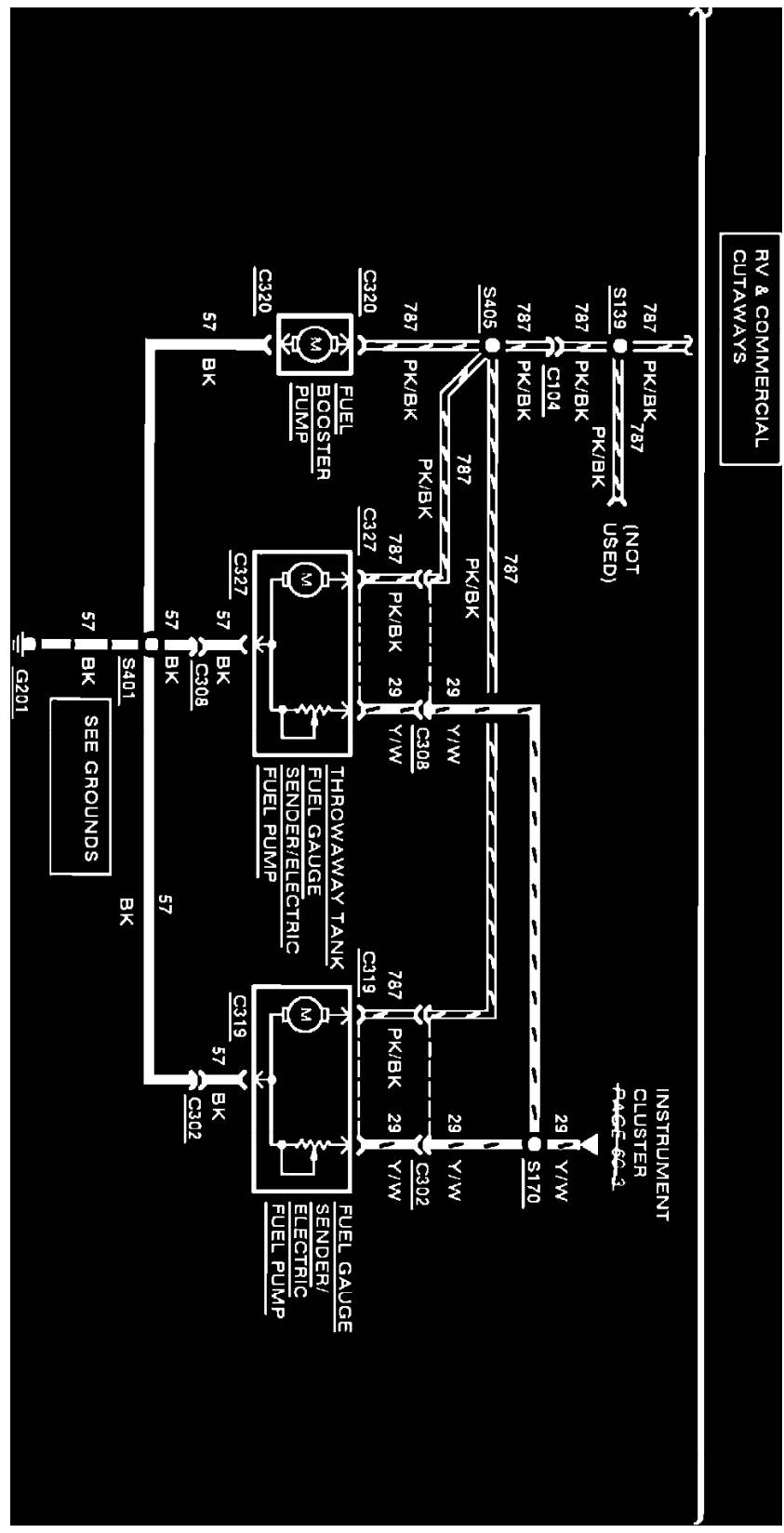


Engine Control (Electronic)

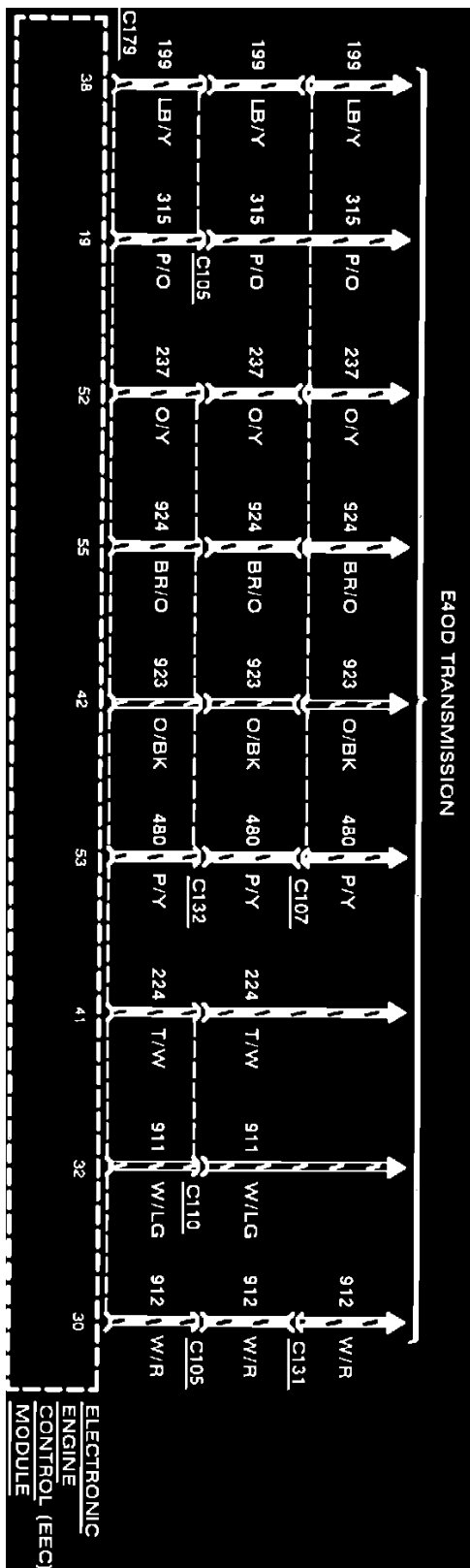


Engine Control (Electronic)

RV & COMMERCIAL CUTAWAYS



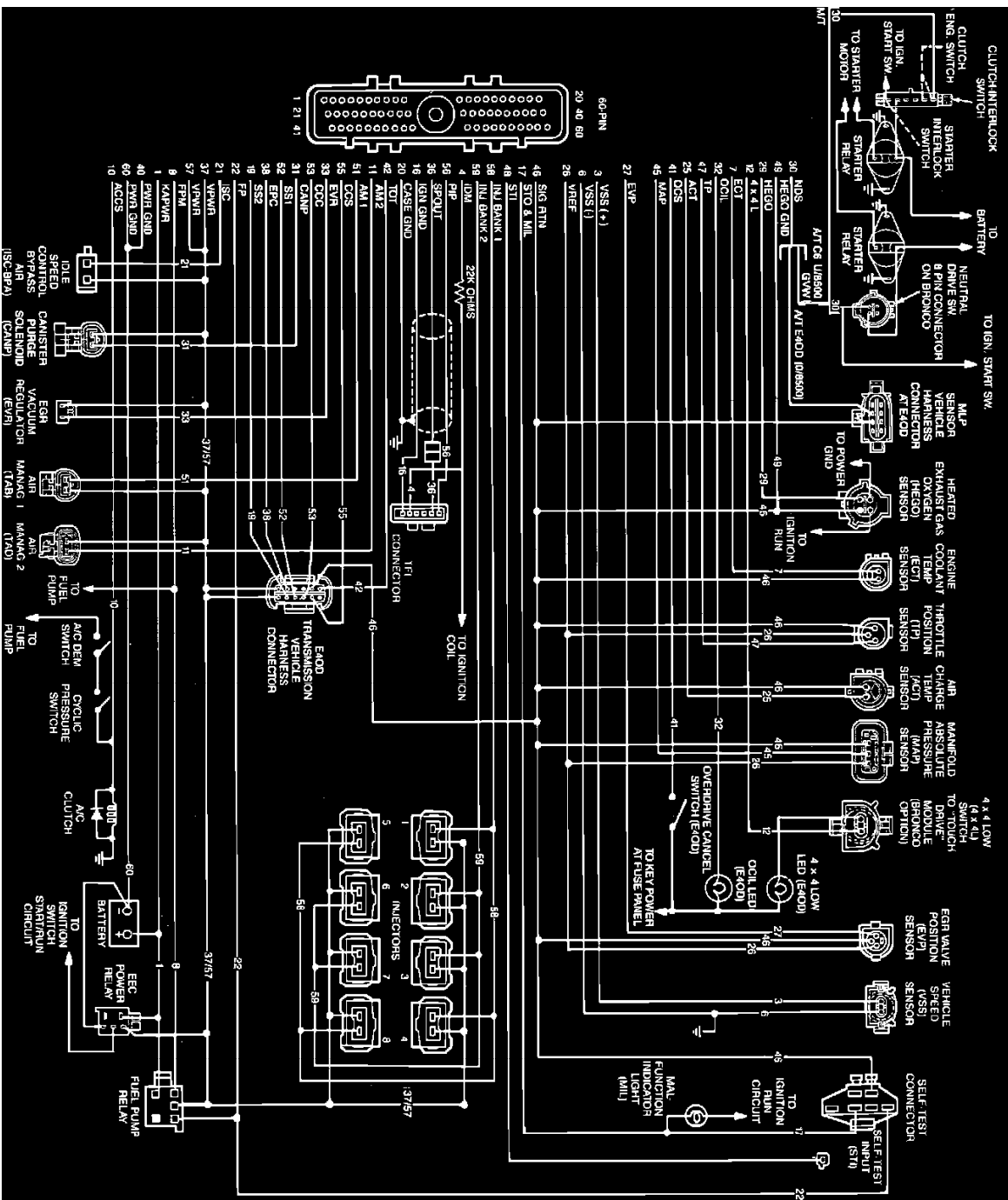
Engine Control (Electronic)



Engine Control (Electronic)

### Powertrain Diagrams

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams



EEC-IV Wiring Diagram

### Camshaft Position Sensor

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

### Crankshaft Position Sensor

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

### Engine Control Module

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

### Emission Control Systems

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

### System Diagram

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

## **Carburetor**

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

## **Fuel Injector**

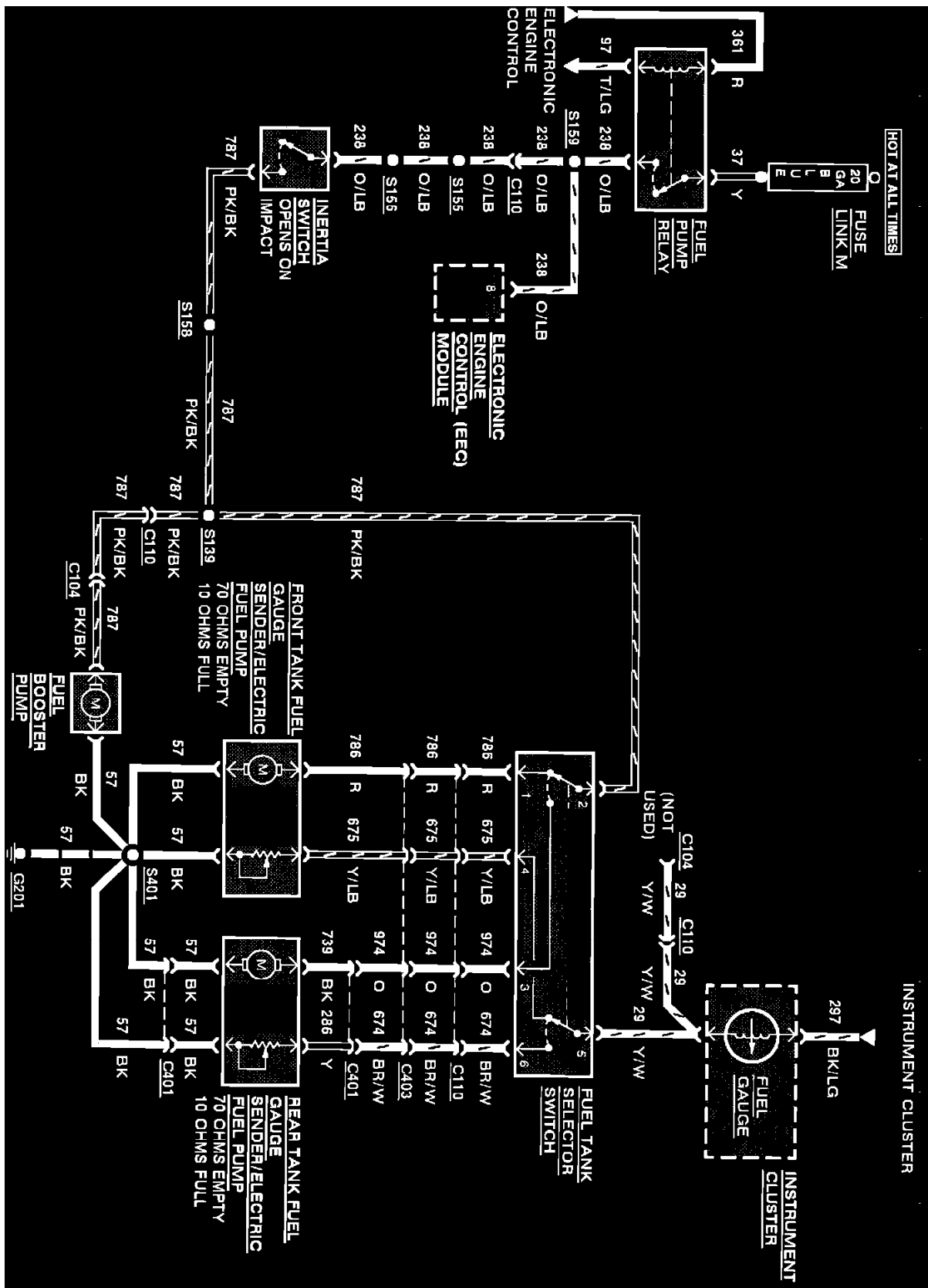
For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

## **System Diagram**

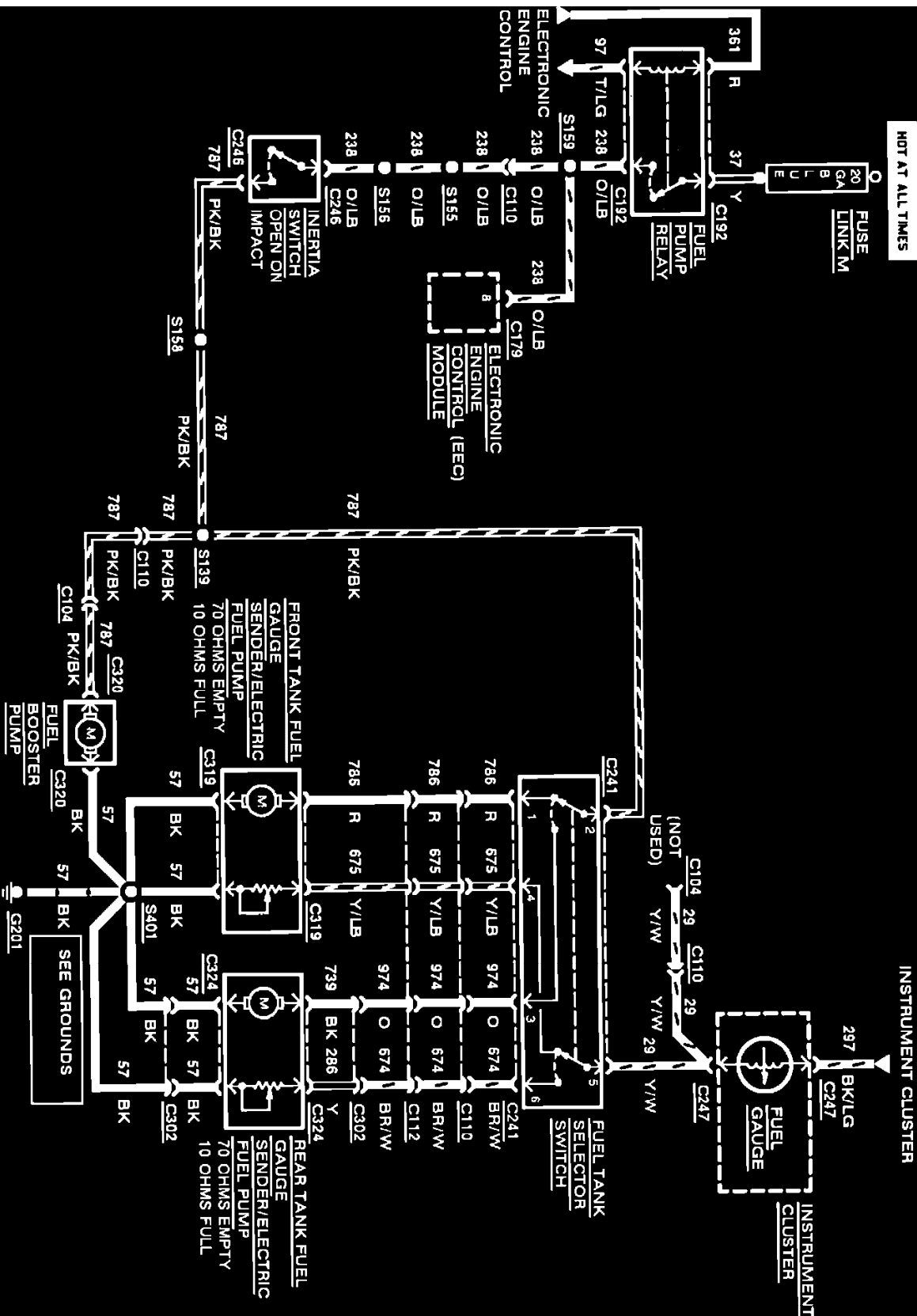
For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams

## **Fuel Pump Relay**

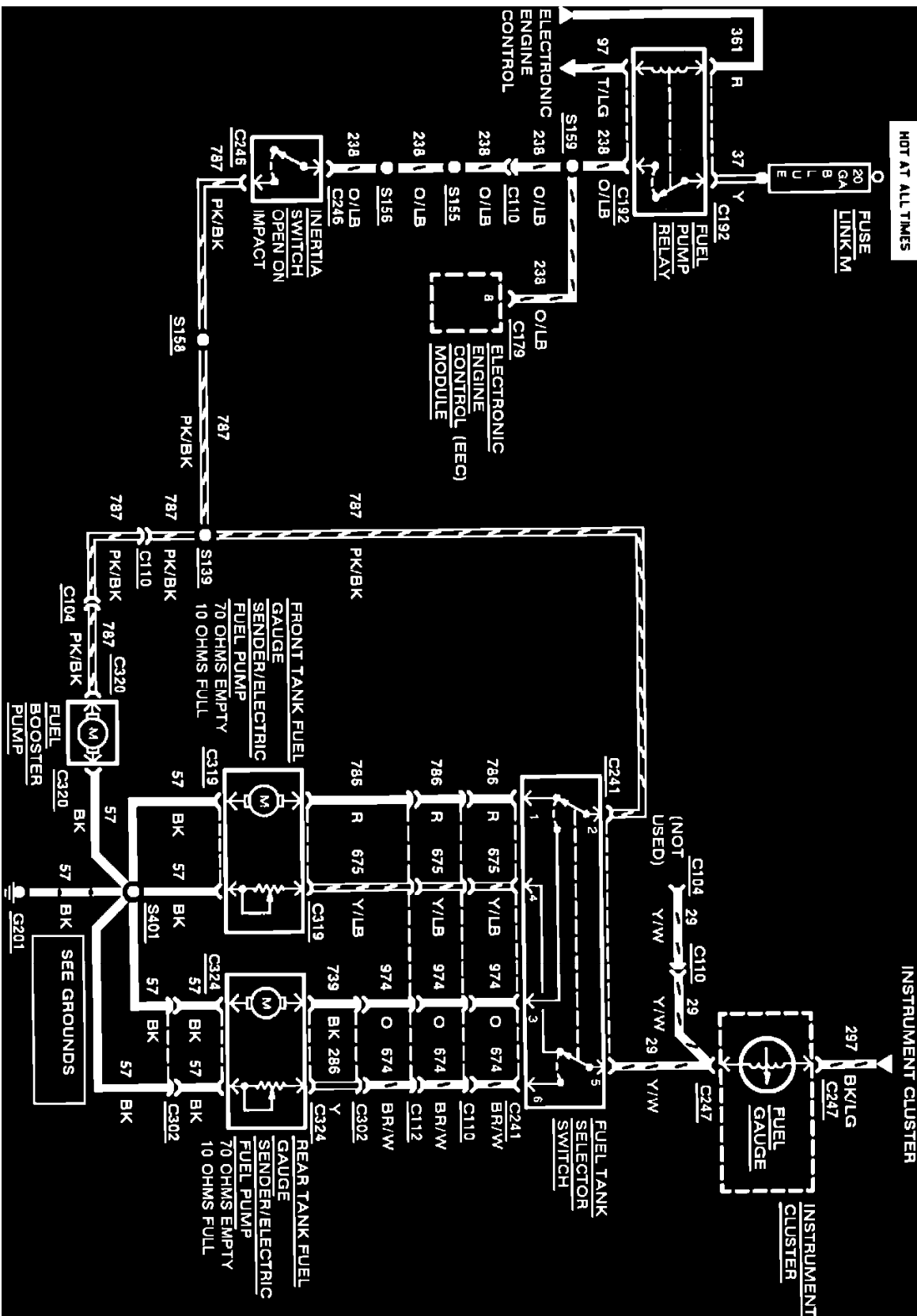
For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams



Fuel Tank Selector



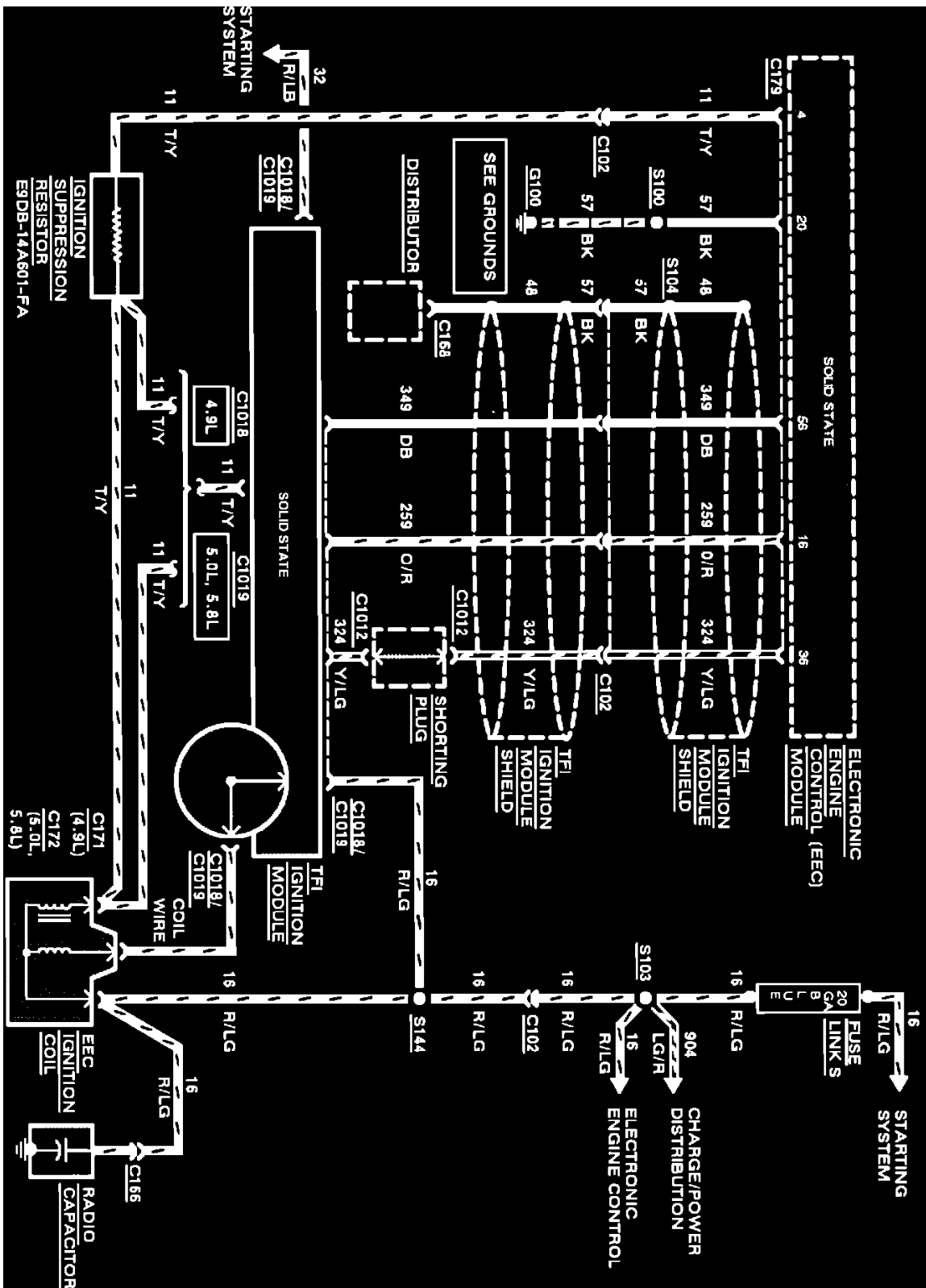
Fuel Tank Selector



Fuel Tank Selector

### Inertia Fuel Shutoff Switch

For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams



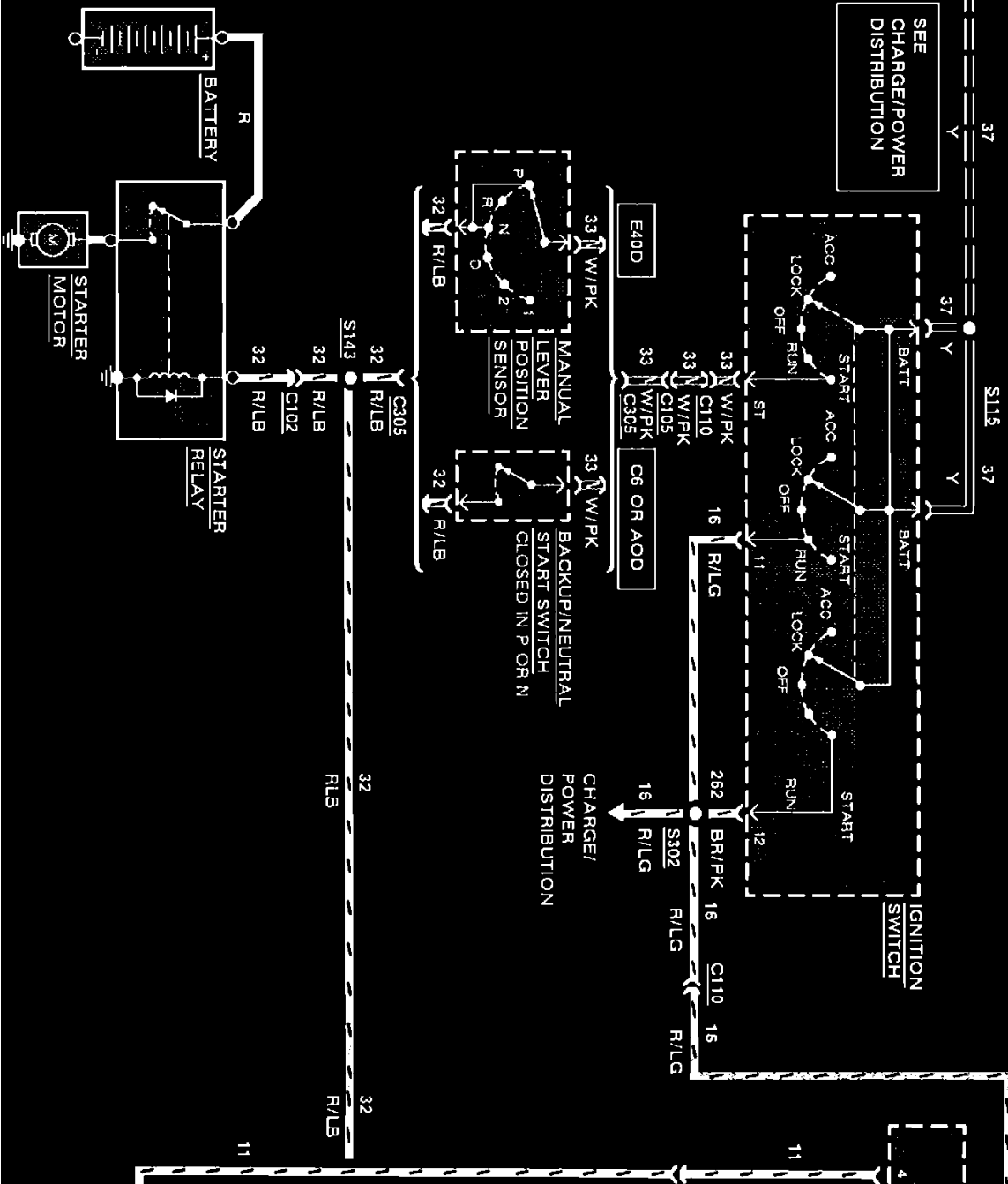
Ignition System

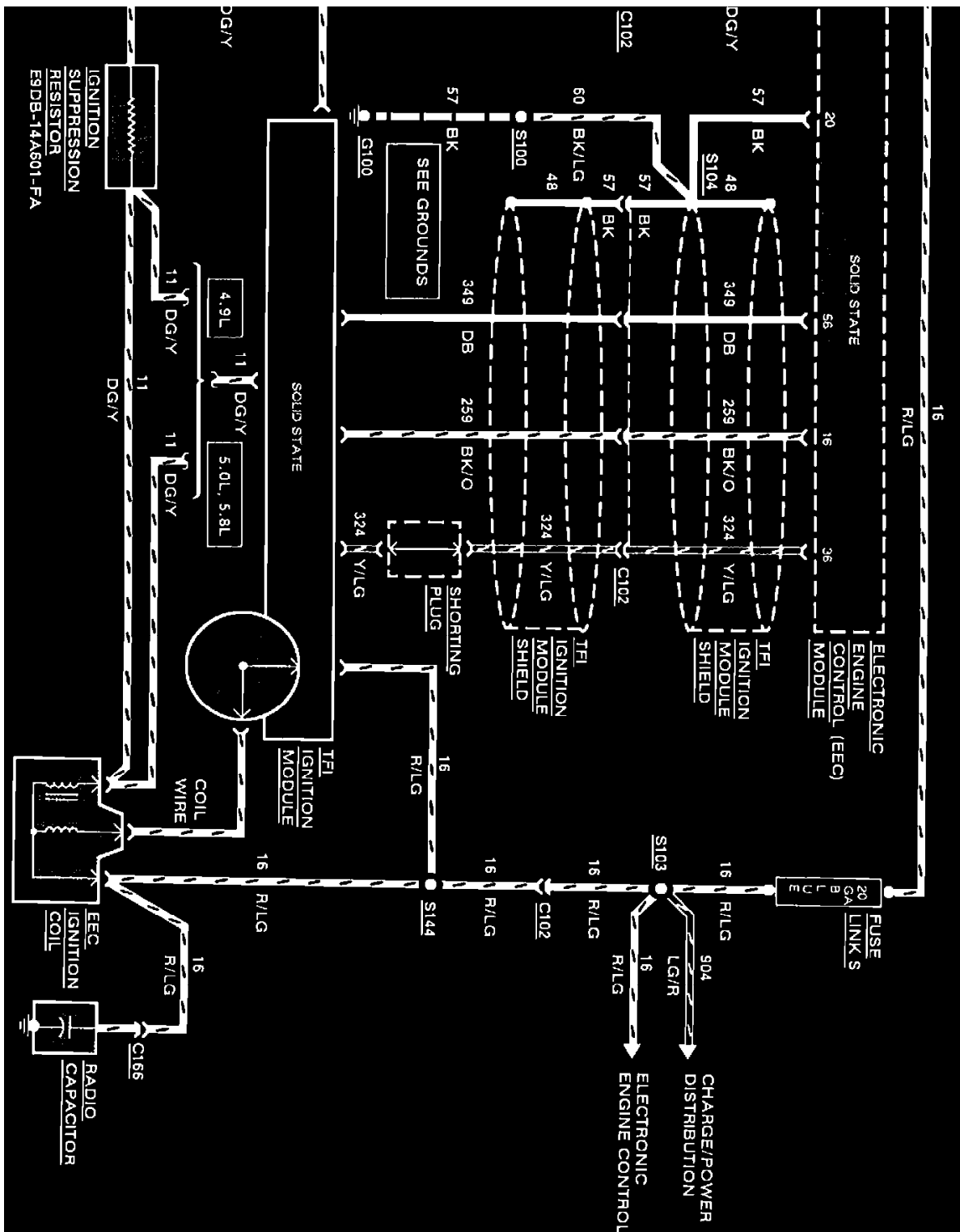
# 4.9L, 5.0L, & 5.8L ENGINES

HOT AT ALL TIMES

16 GA BLACK FUSE LINK D

SEE CHARGE/POWER DISTRIBUTION

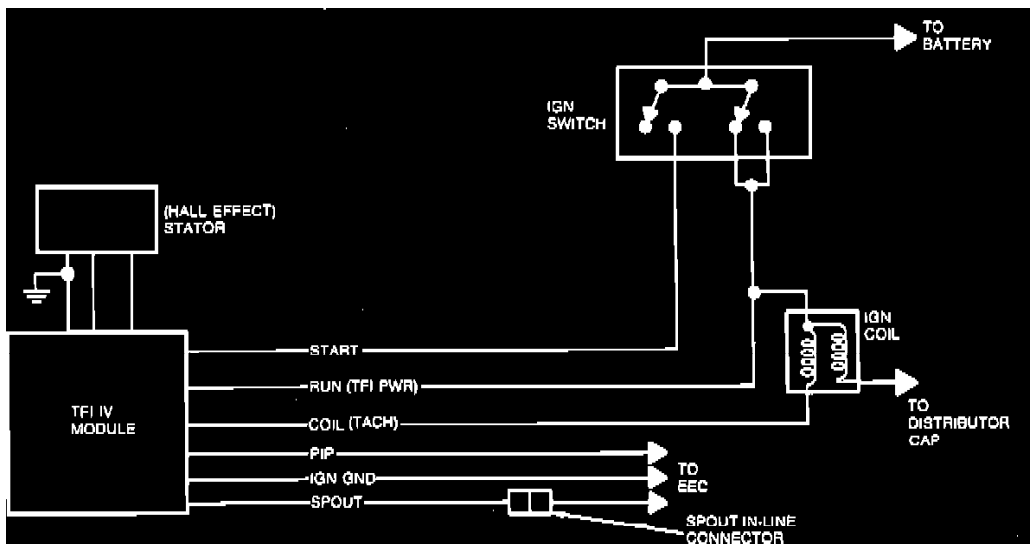




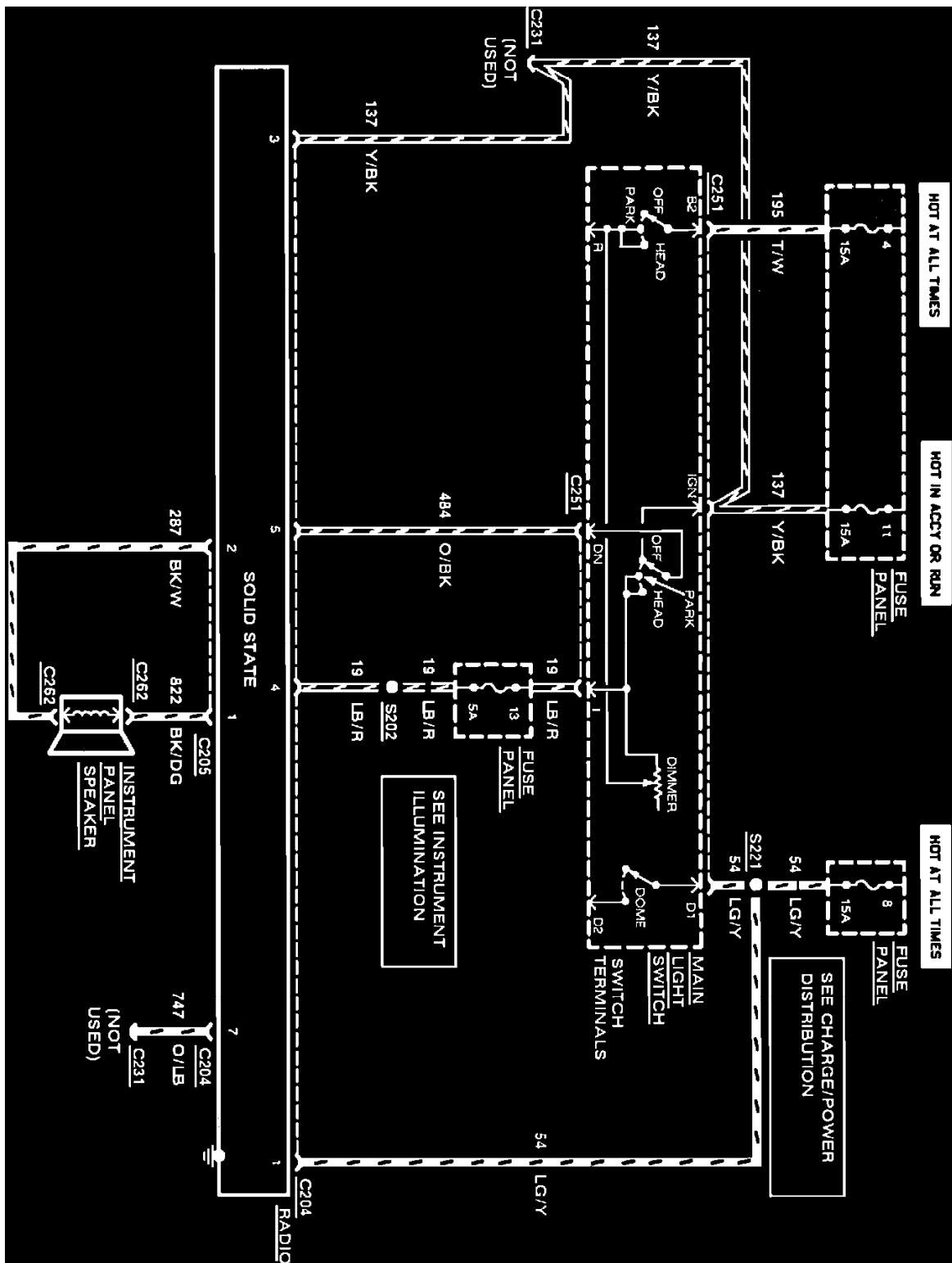
Wiring Diagram - Start/Ignition

### Powertrain Diagrams

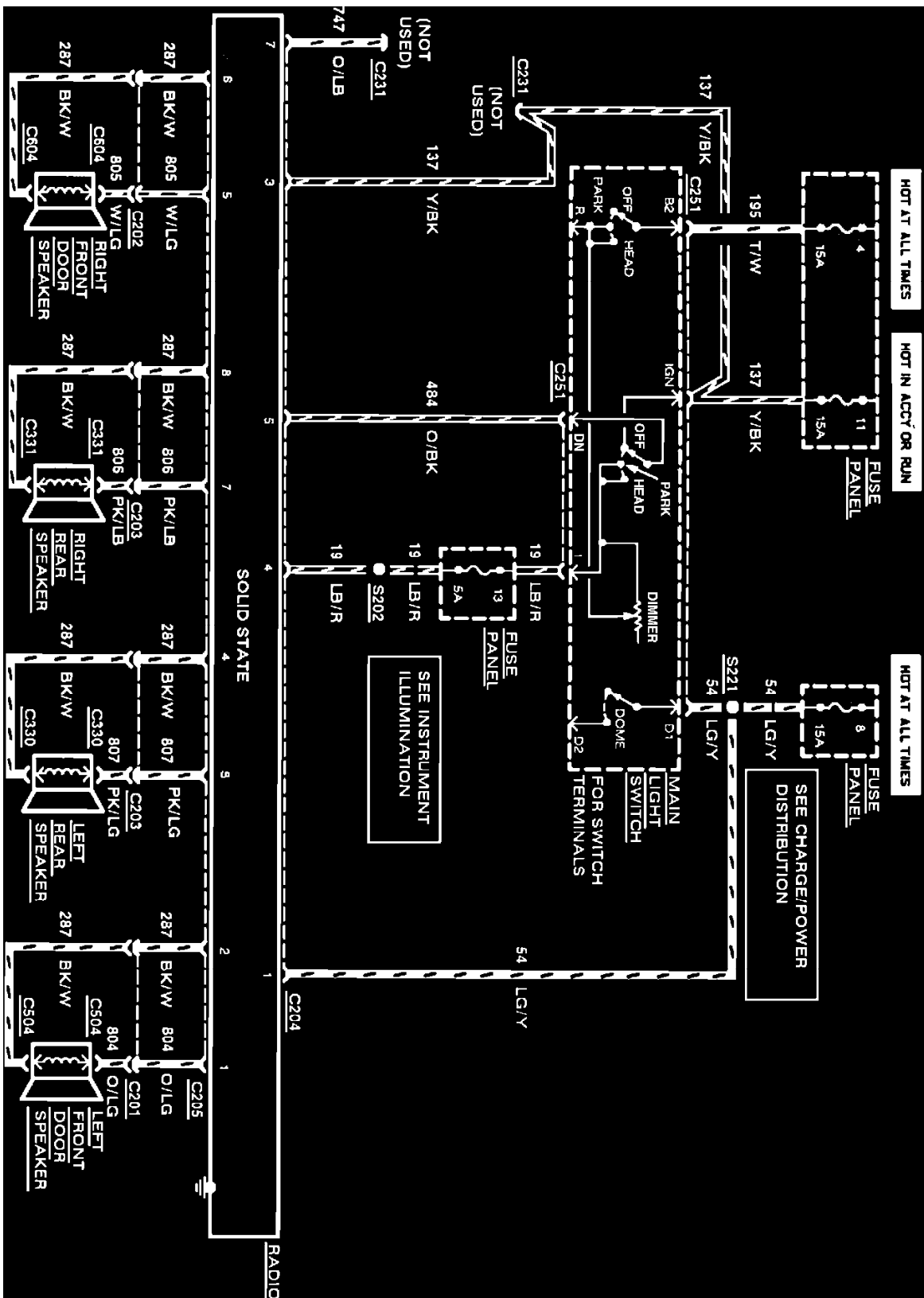
For information regarding diagrams for this system, please refer to Powertrain Management diagrams. See: Powertrain Management/Diagrams



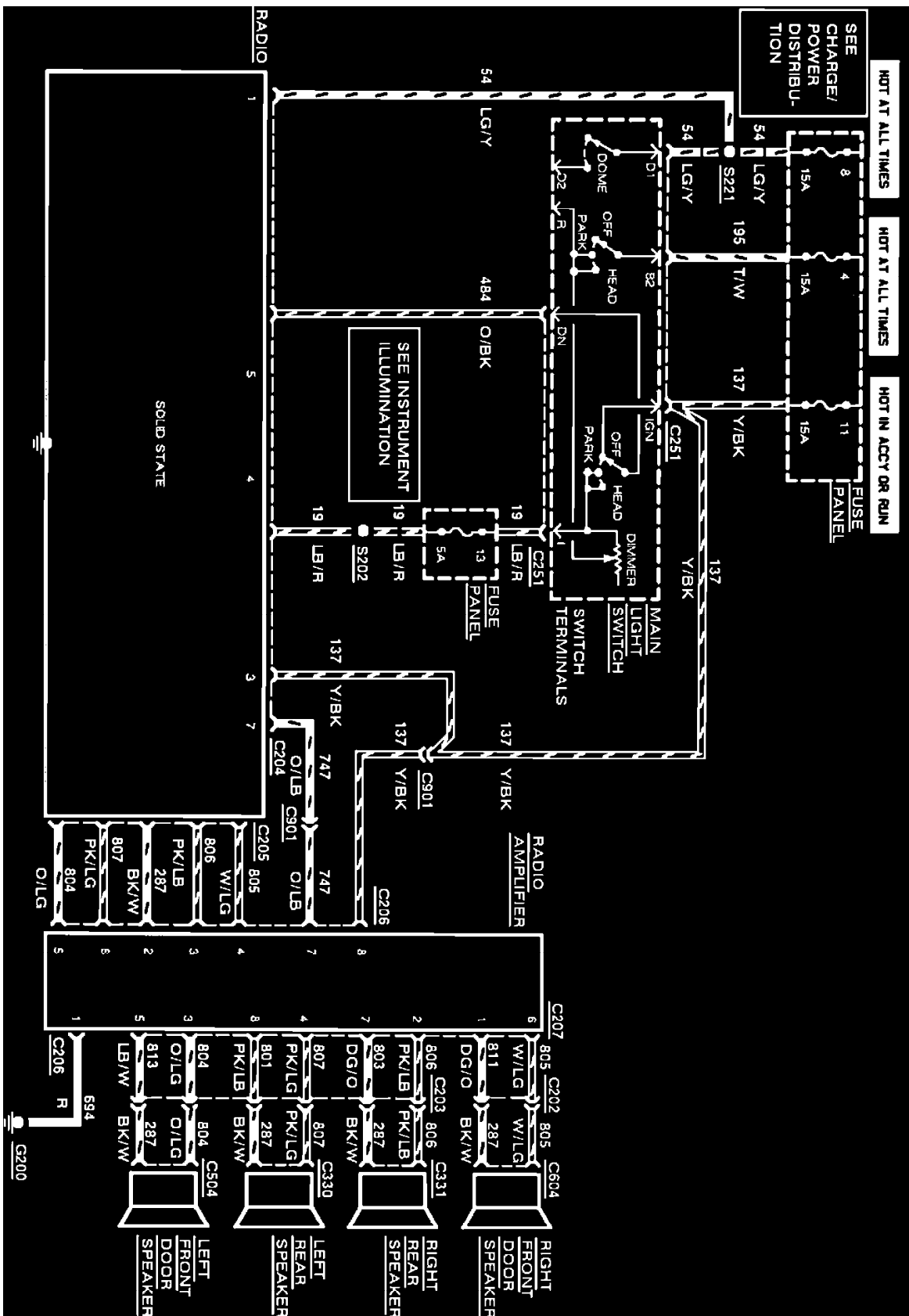
Functional Schematic



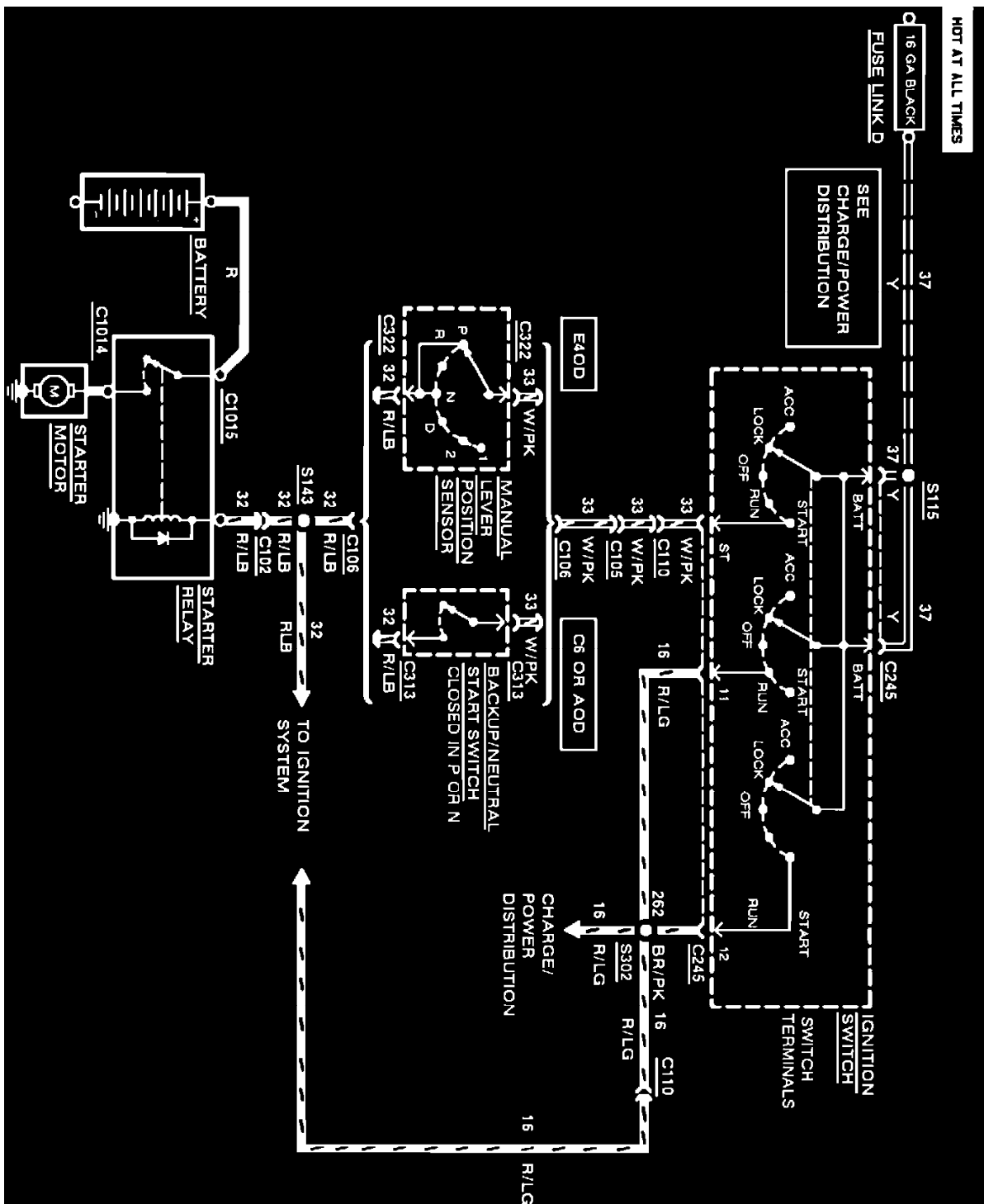
Radio (AM)



Radio (AM/FM Stereo)



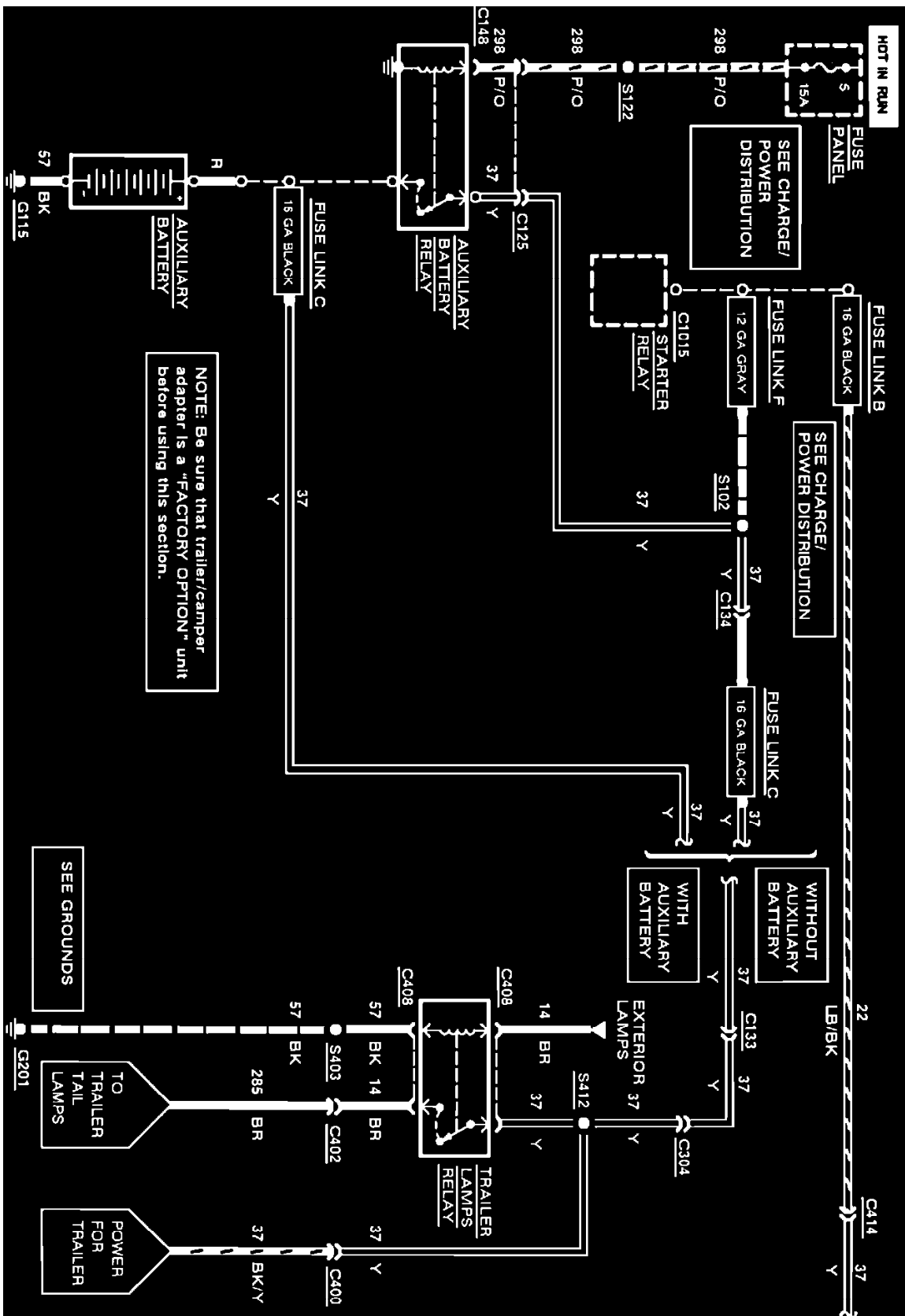
Radio (AM/FM Amplifier)



Starting System

### Ignition Lock

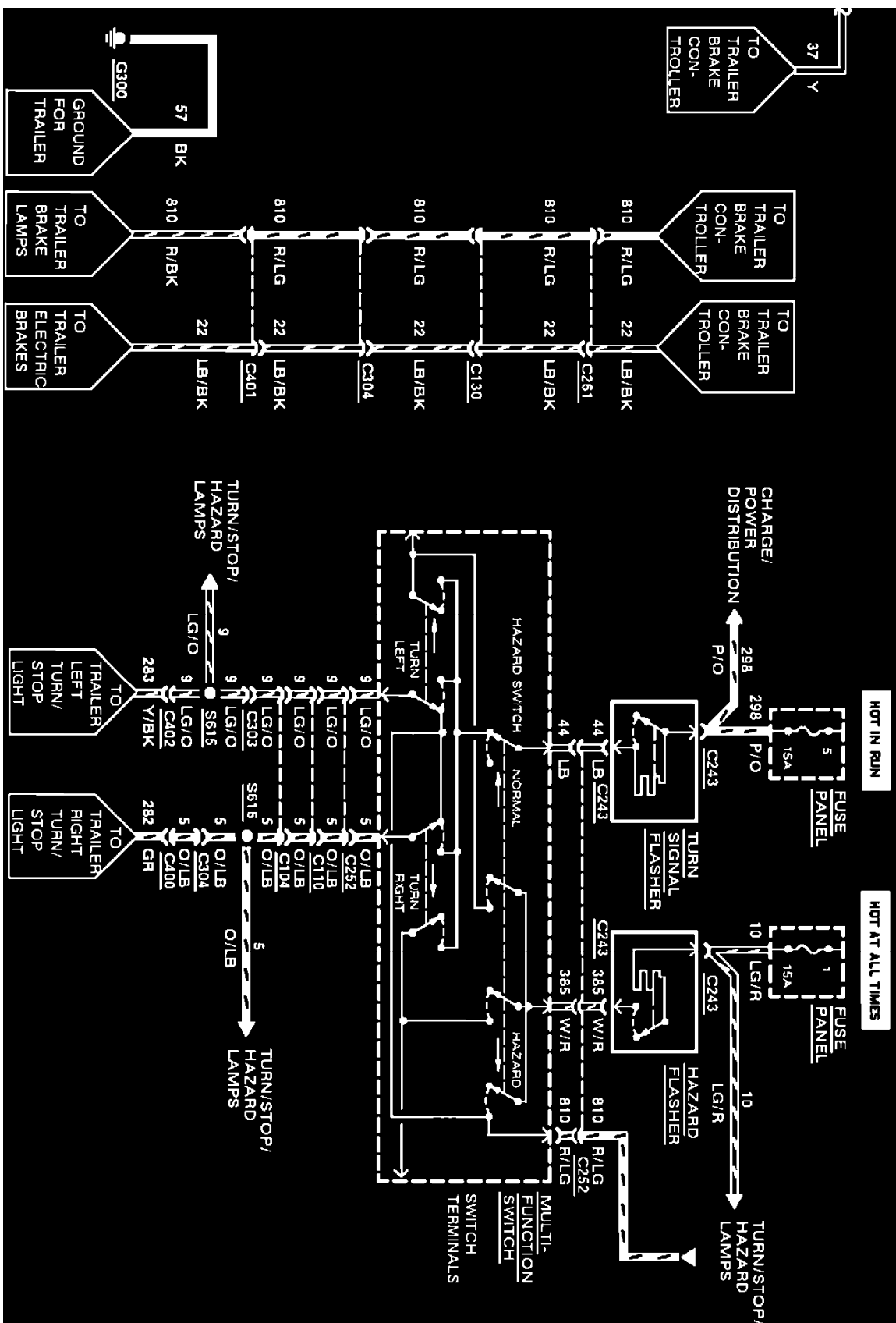
For Wiring Diagrams, please refer to: Starting System/Diagrams, See: Starting and Charging/Starting System/Diagrams



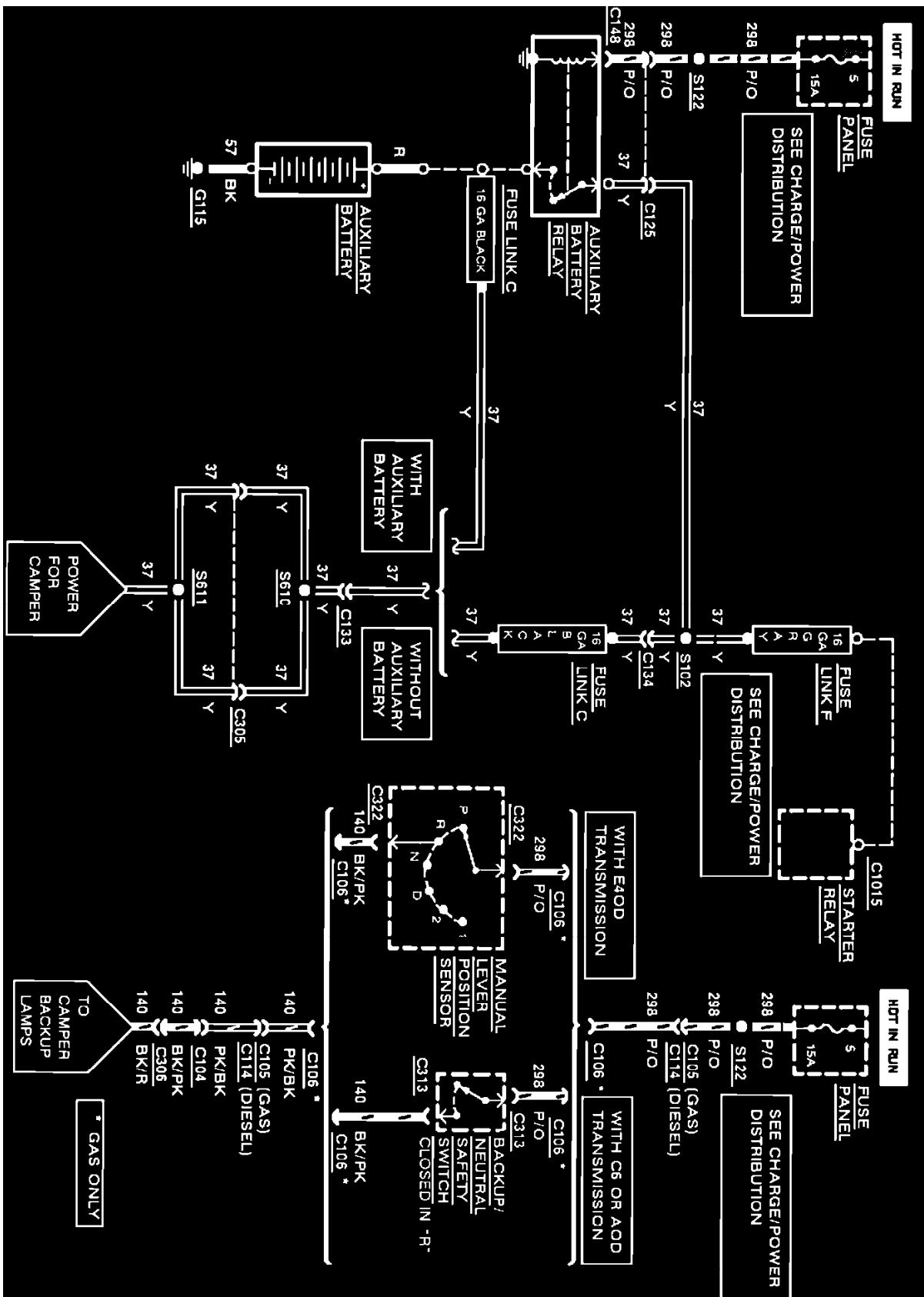
NOTE: Be sure that trailer/camper adapter is a "FACTORY OPTION" unit before using this section.

SEE GROUNDS

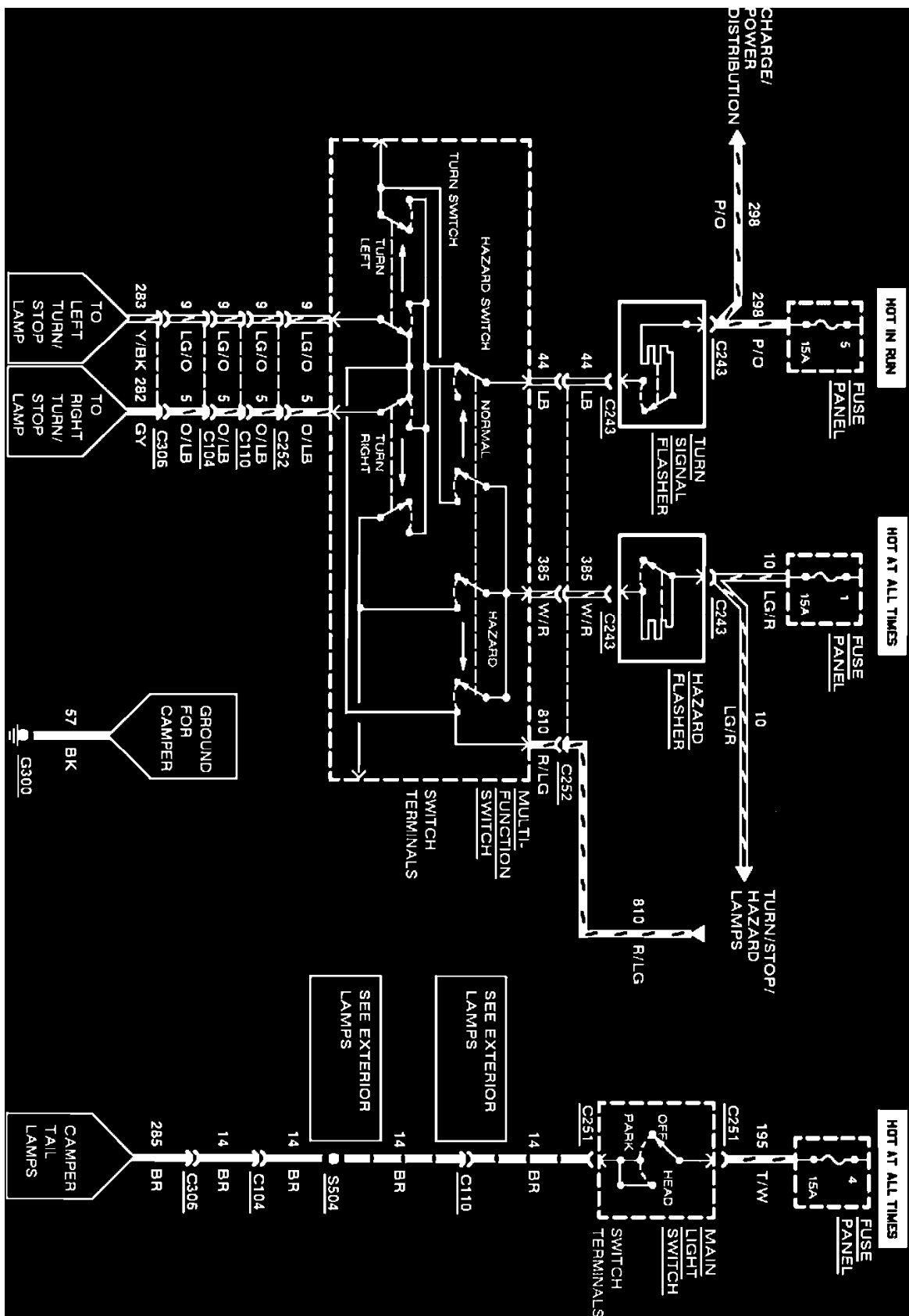
Trailer/Camper Adapter



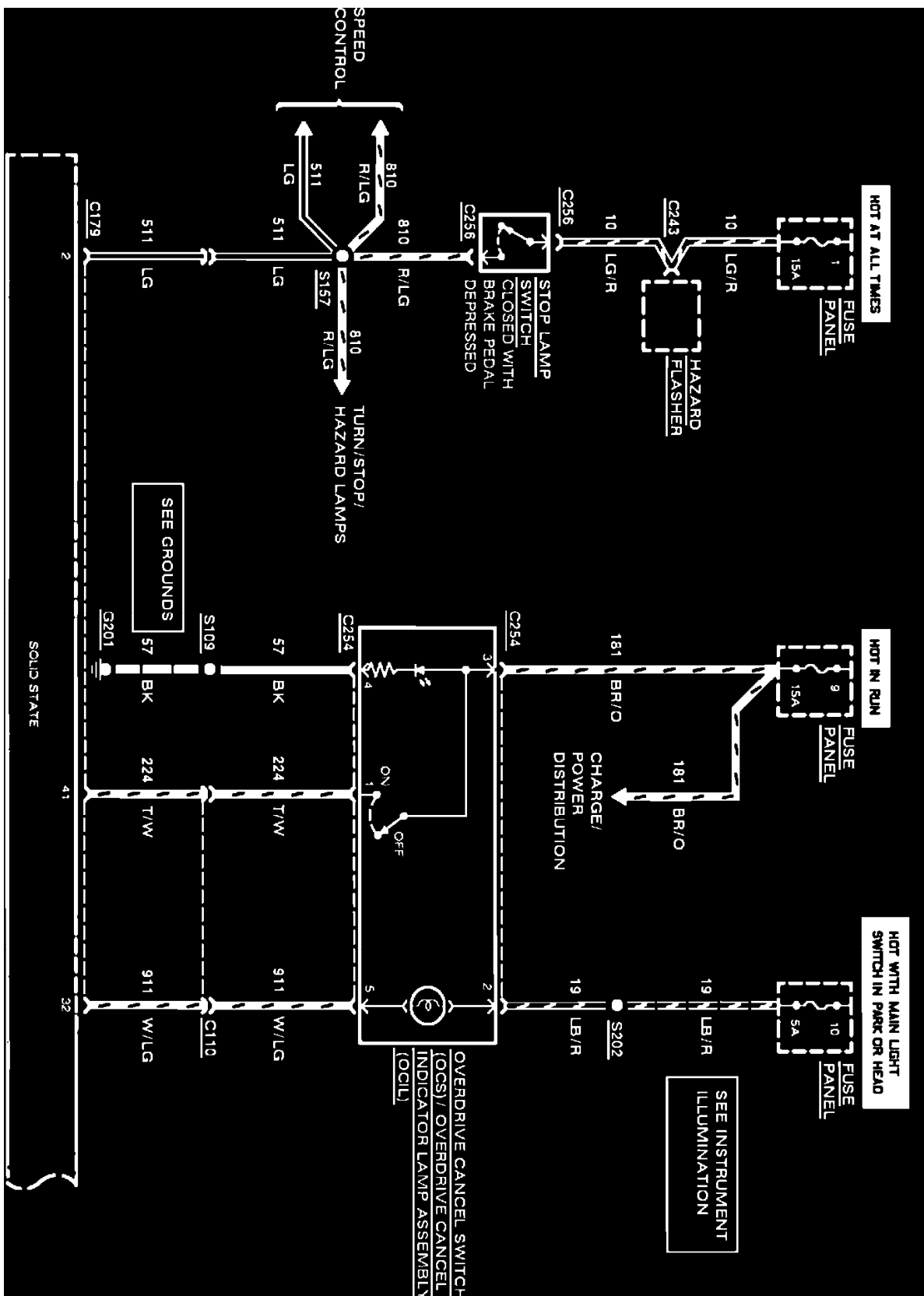
Trailer/Camper Adapter



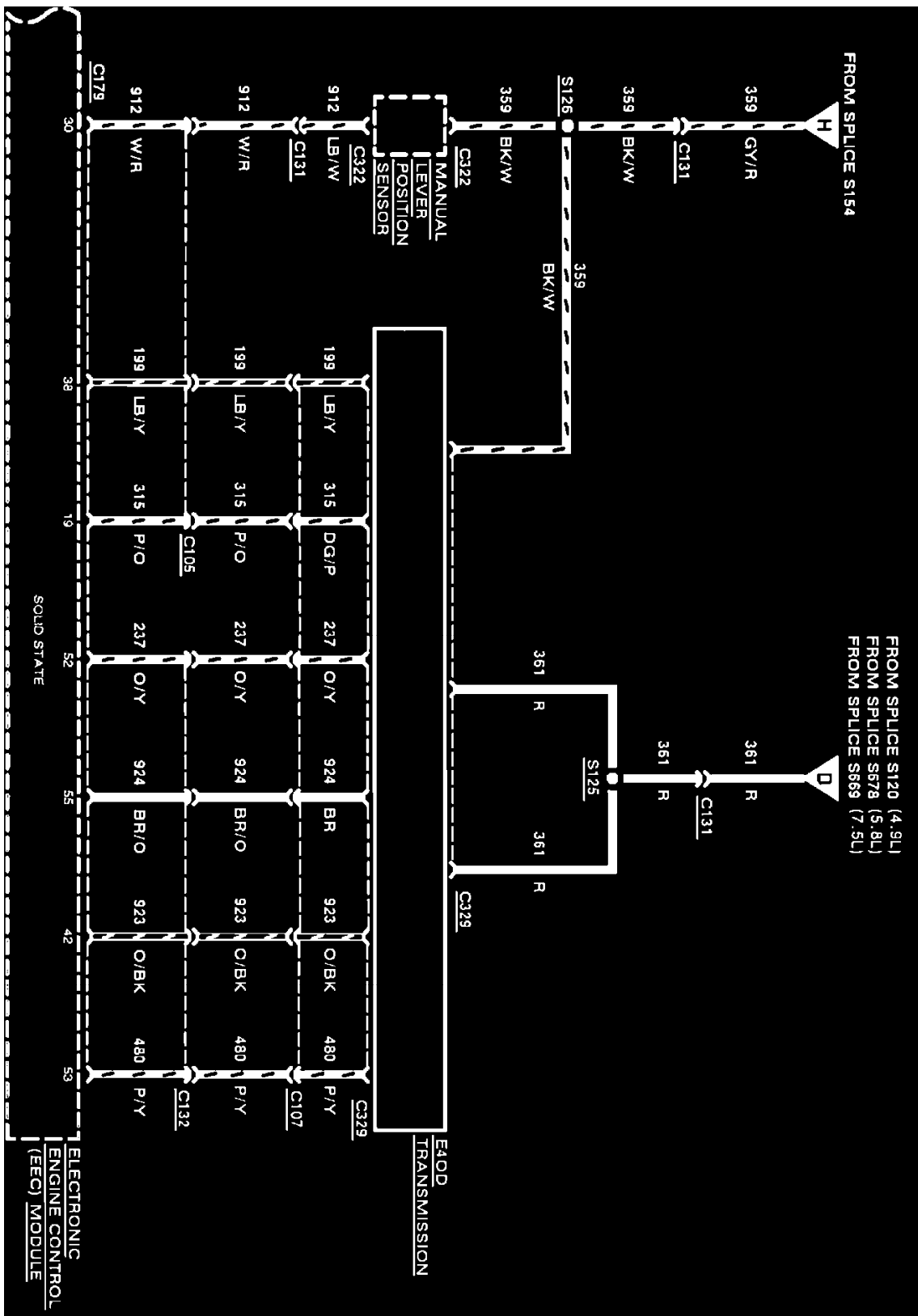
Trailer/Camper Adapter



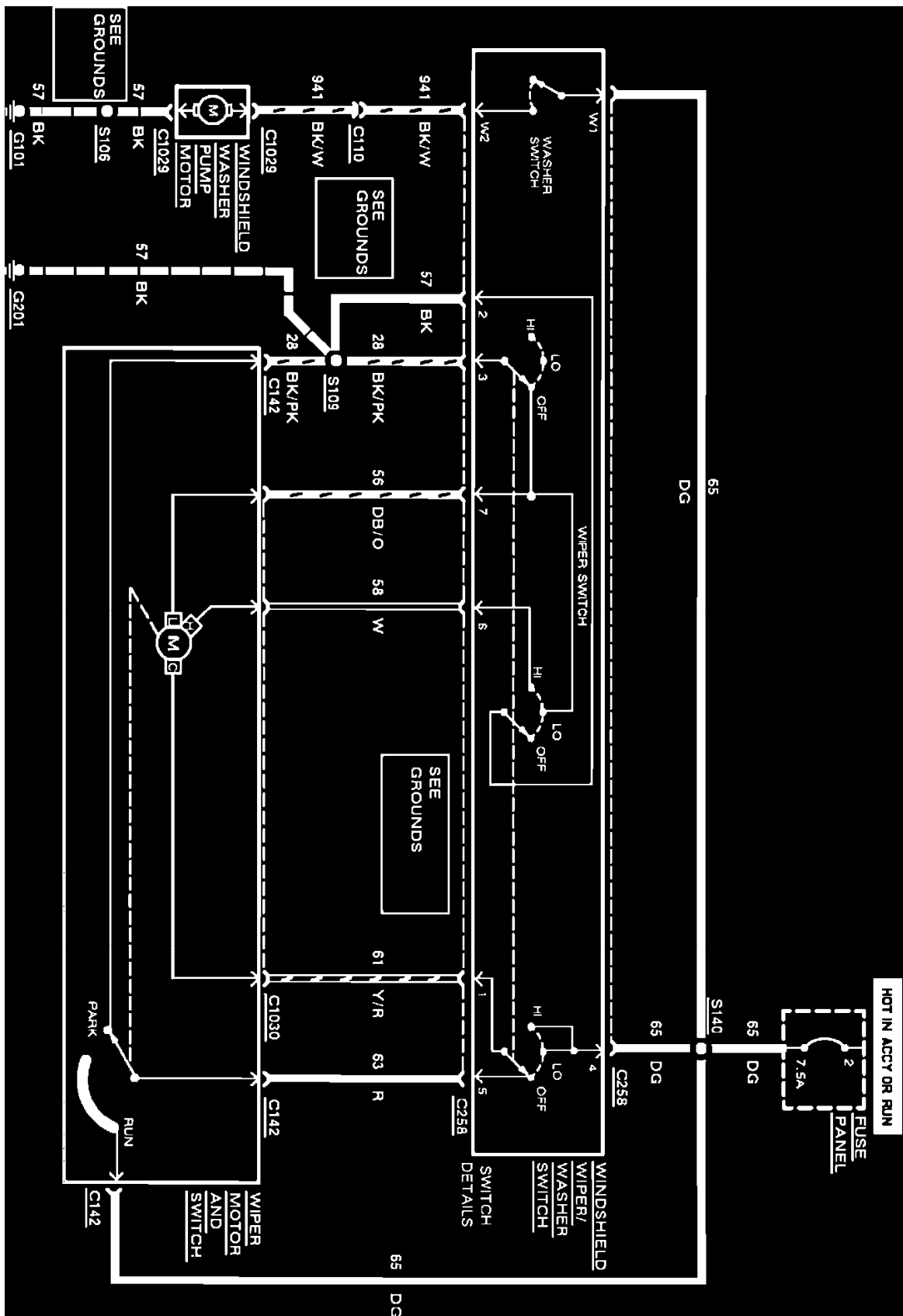
Trailer/Camper Adapter



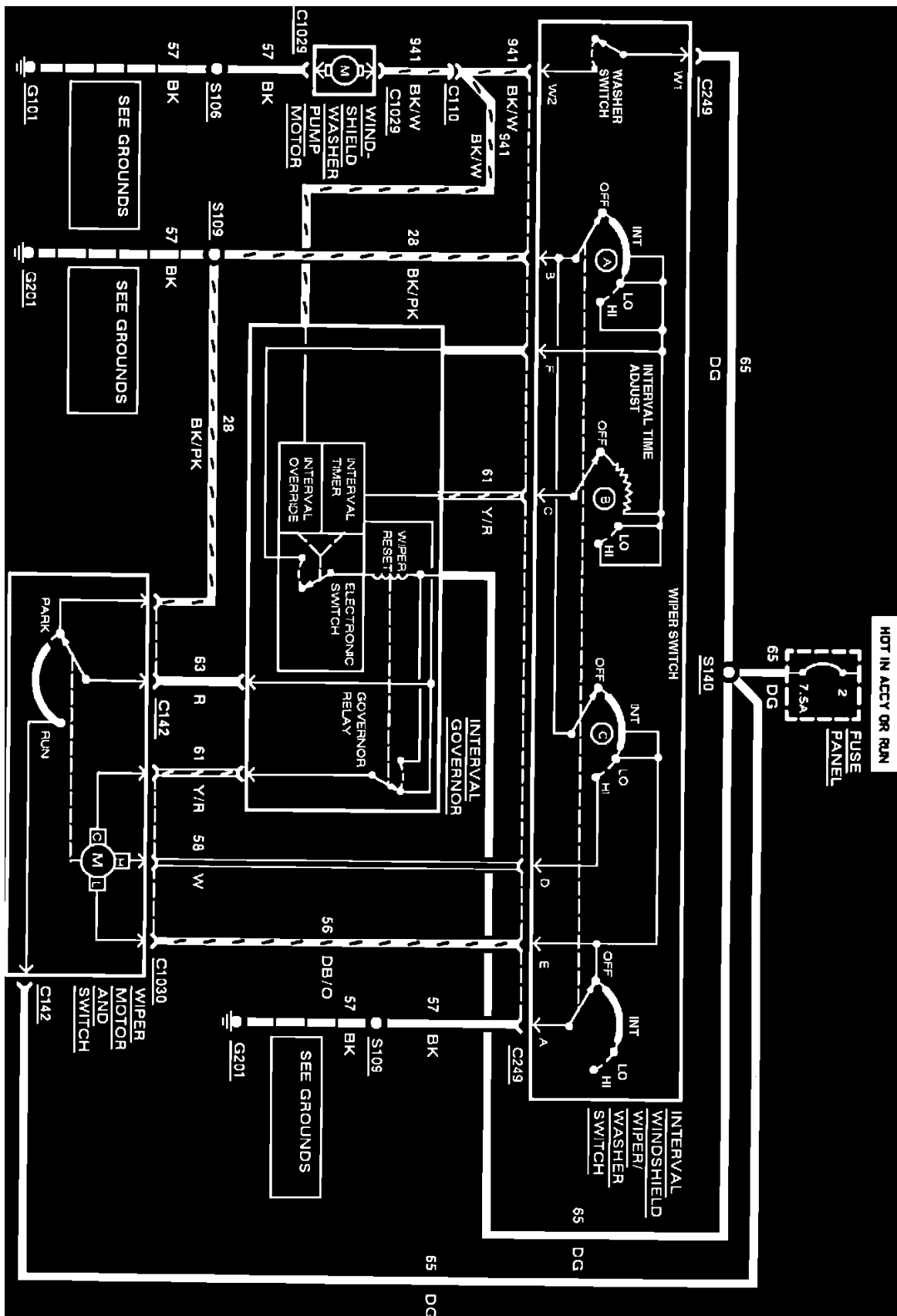
E40D Transmission



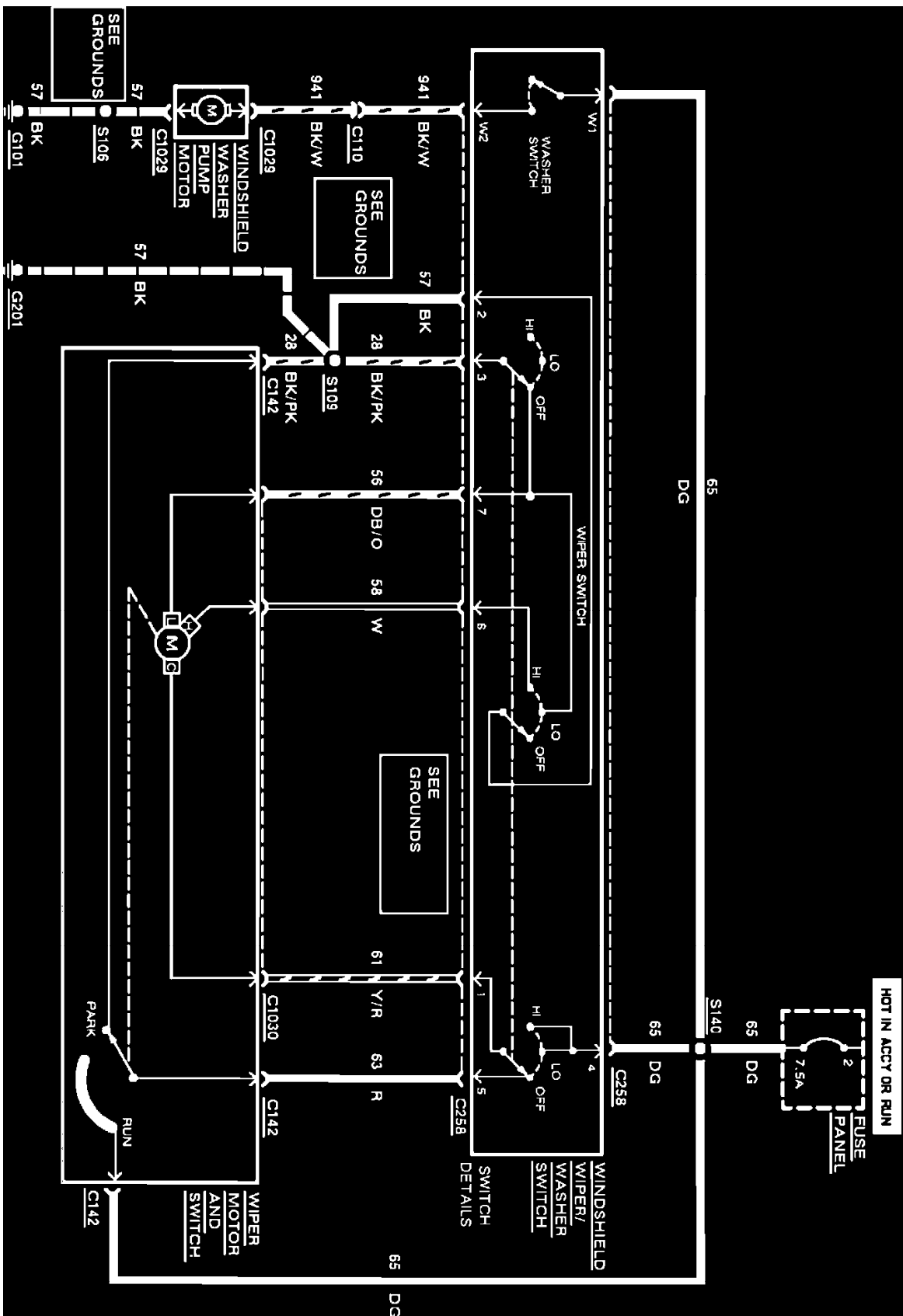
E40D Transmission



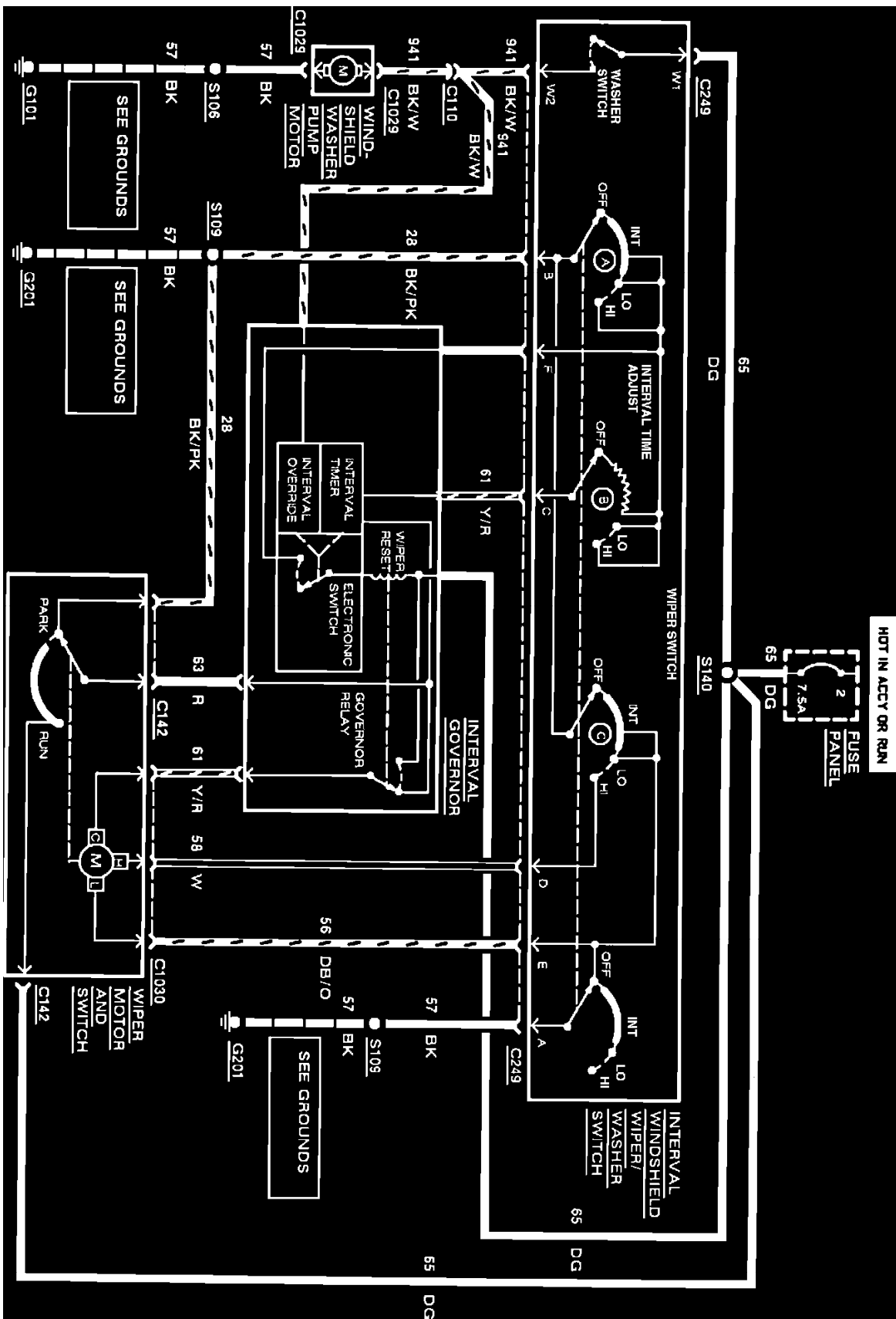
Wiper/Washer



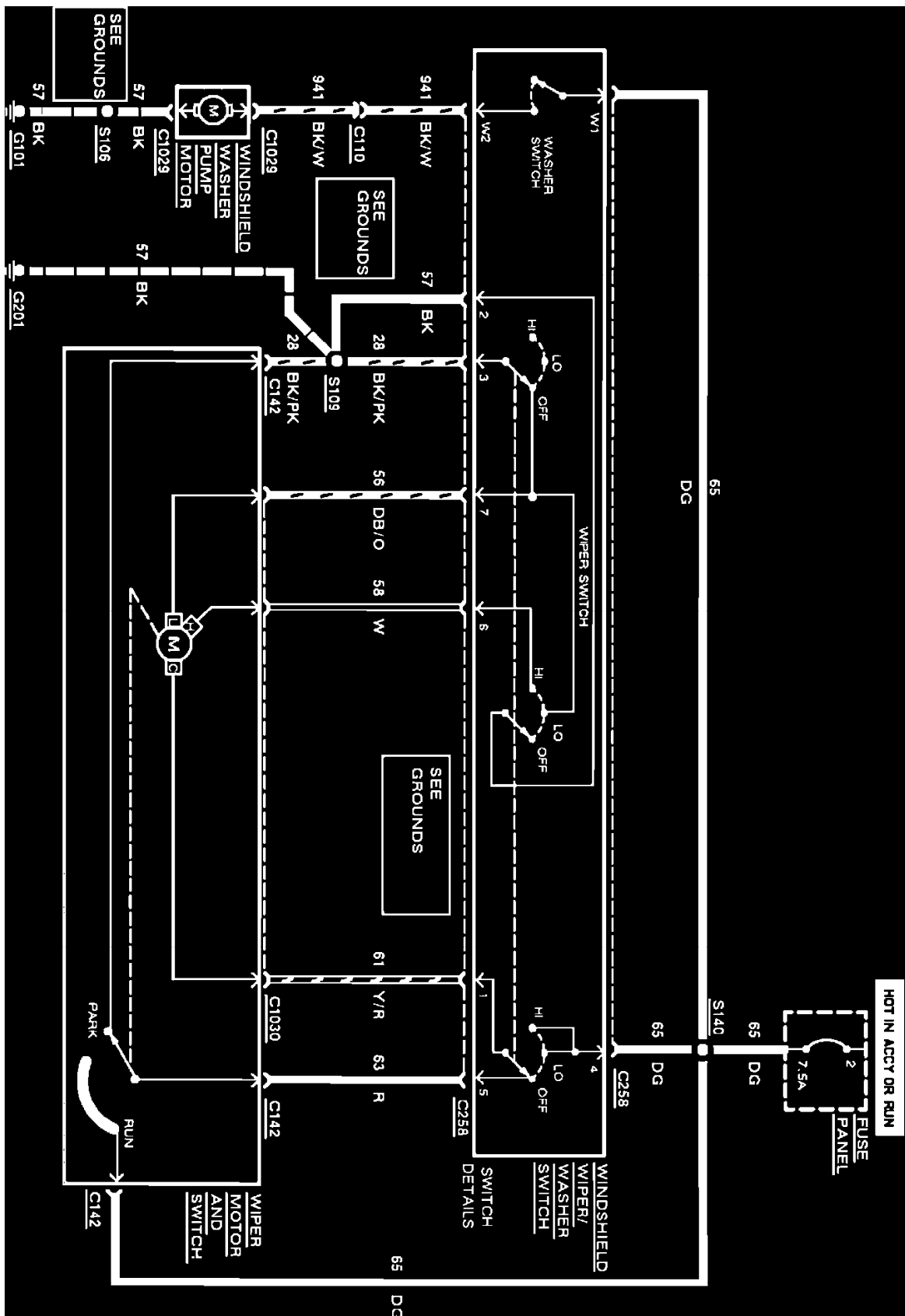
Interval Wiper/Washer



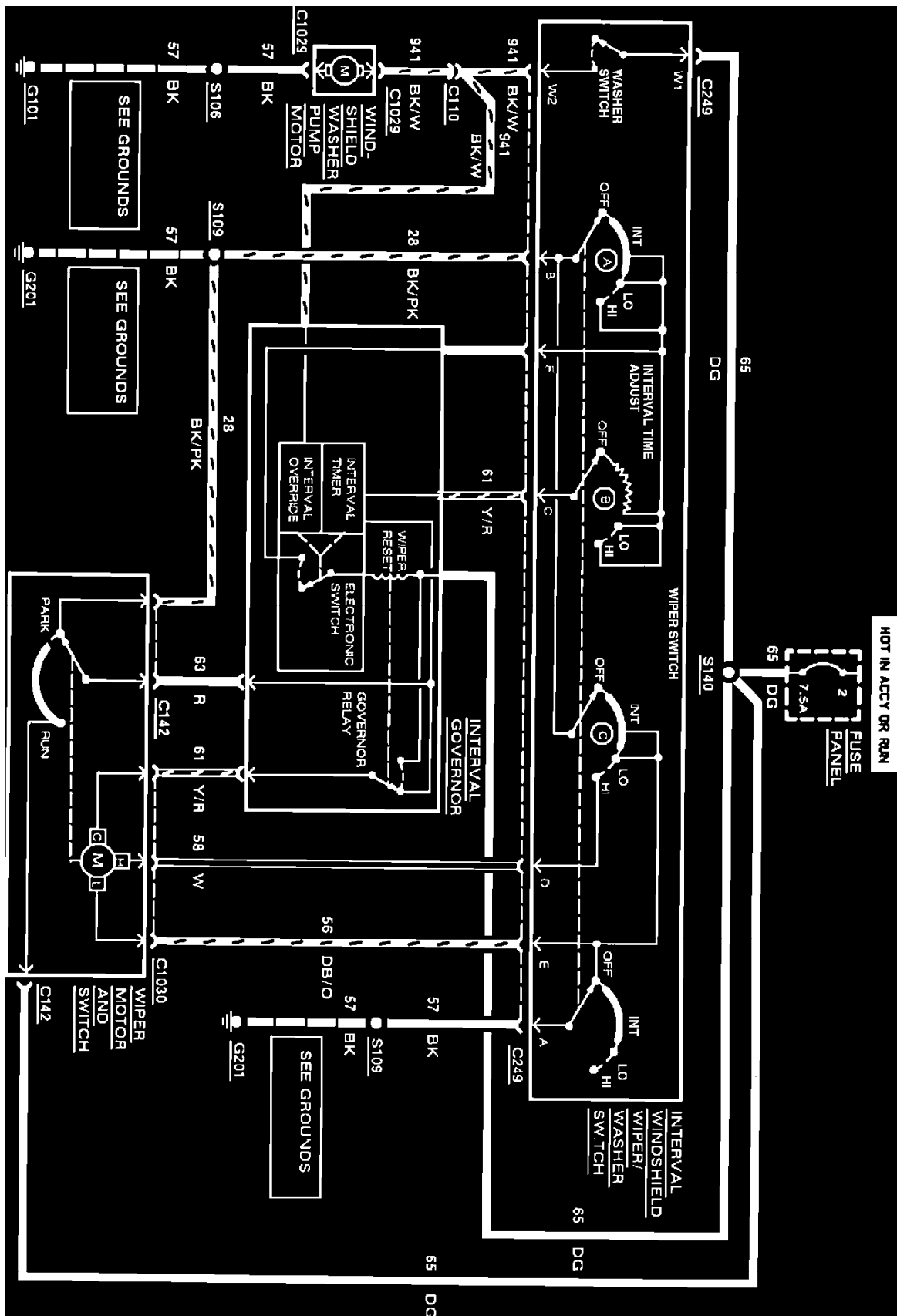
Wiper/Washer



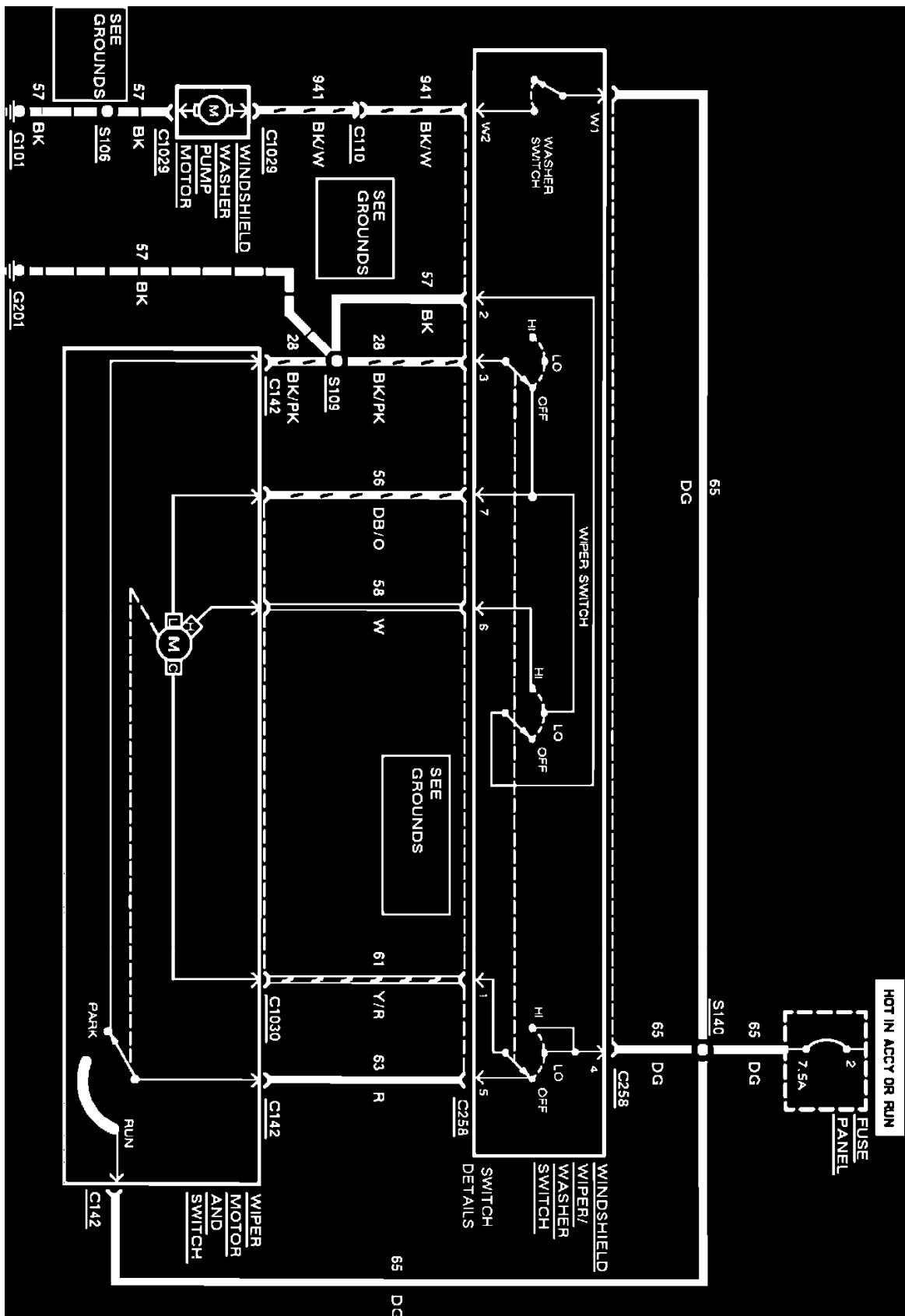
Interval Wiper/Washer



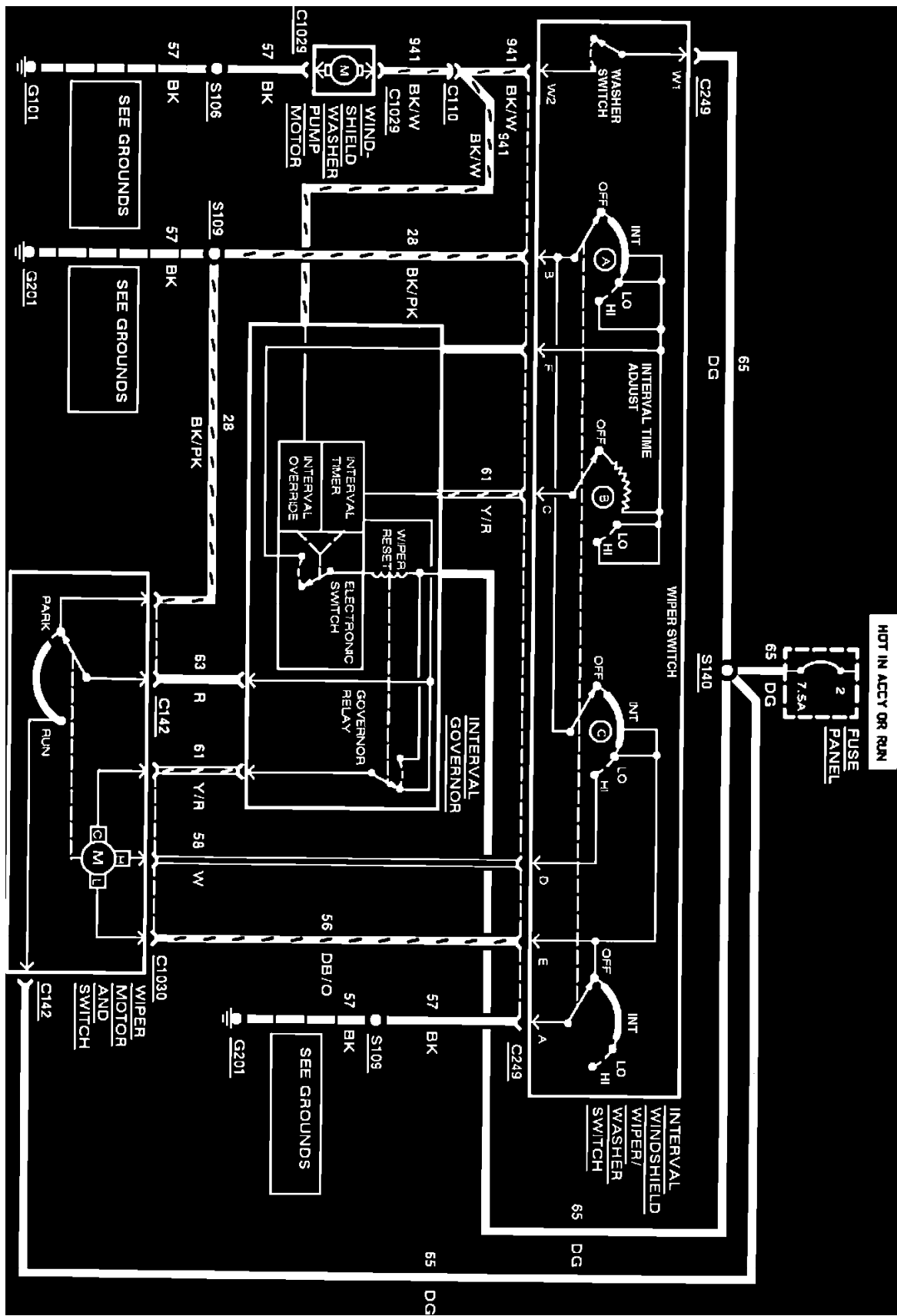
Wiper/Washer



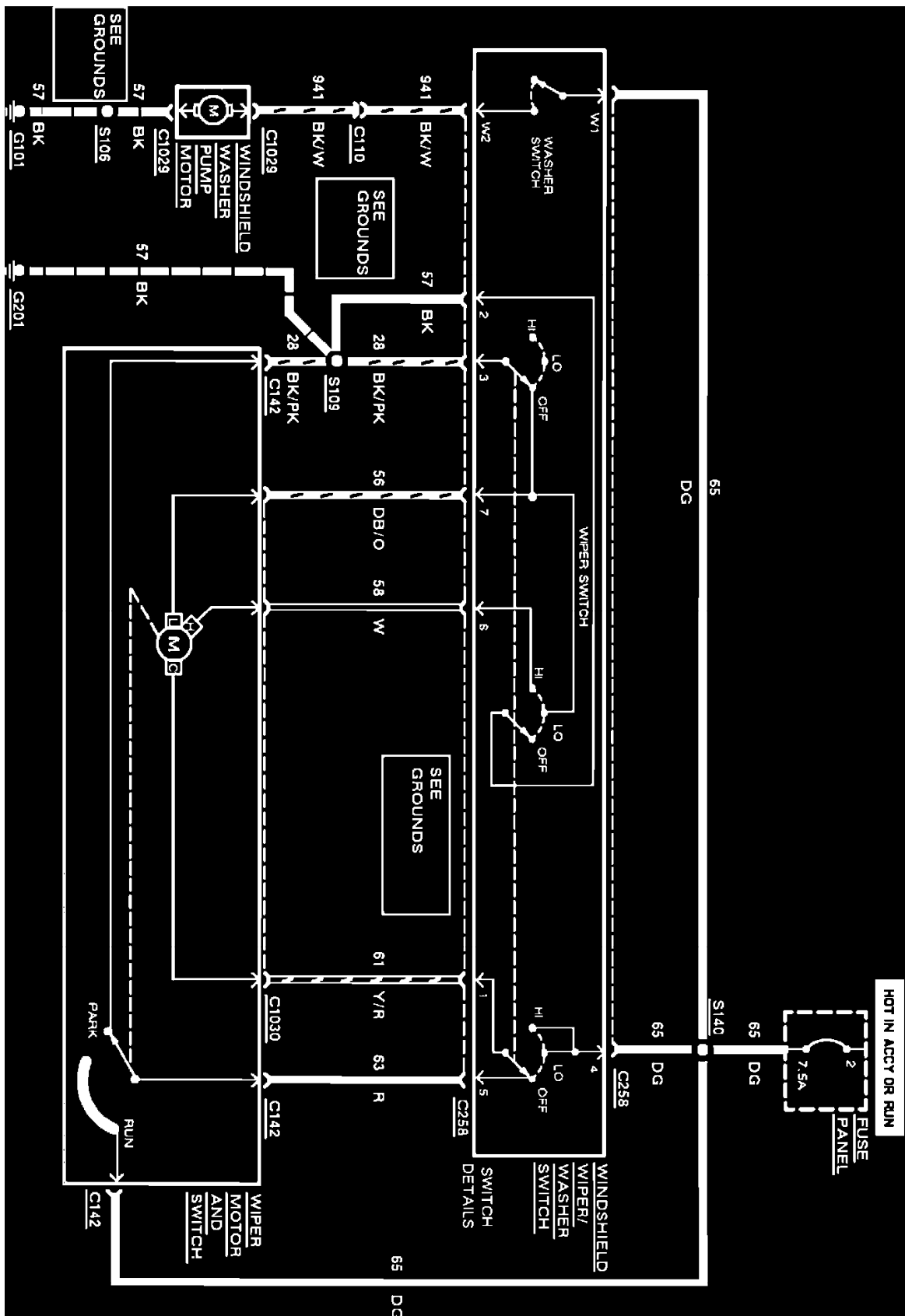
Interval Wiper/Washer



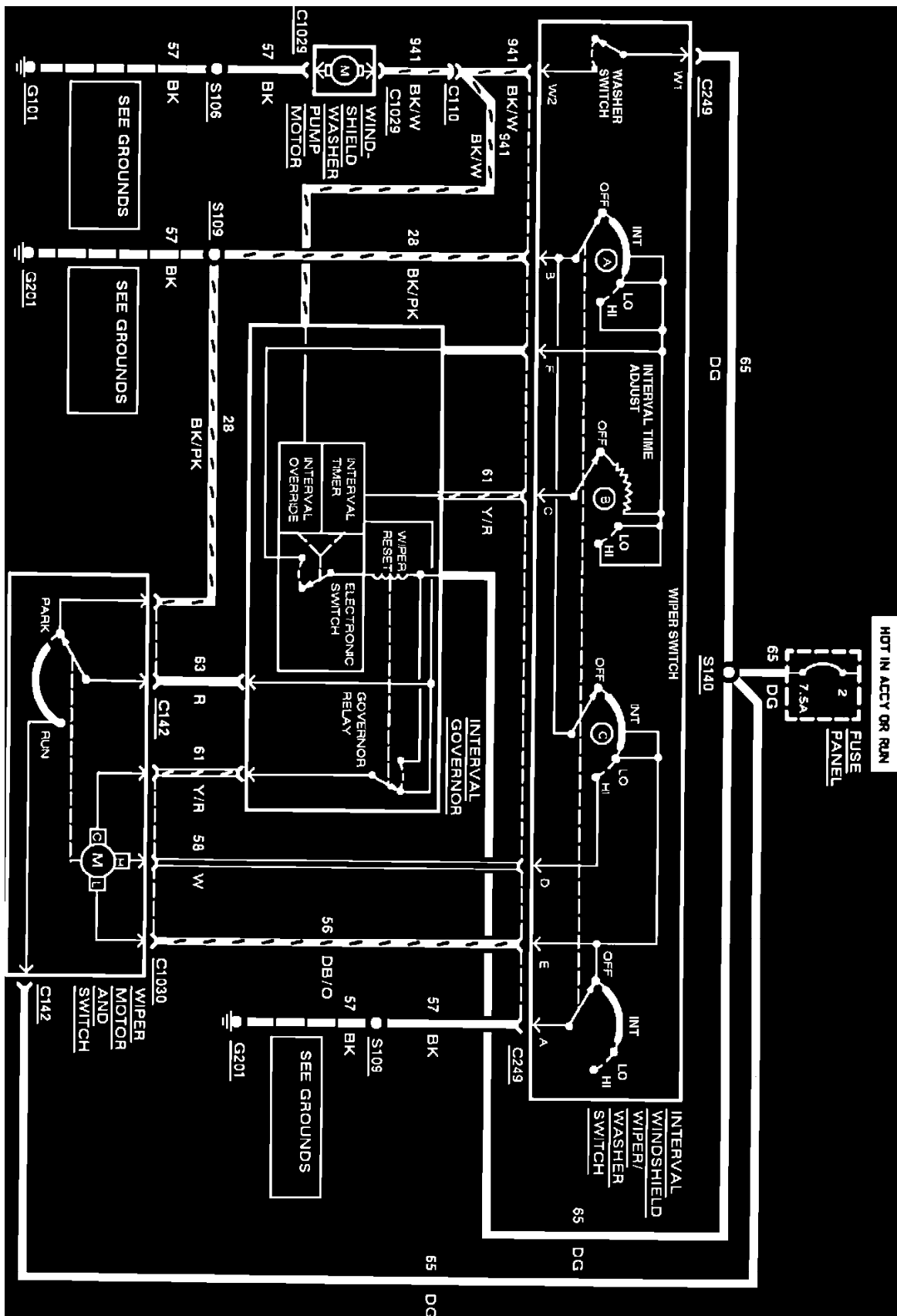
Wiper/Washer



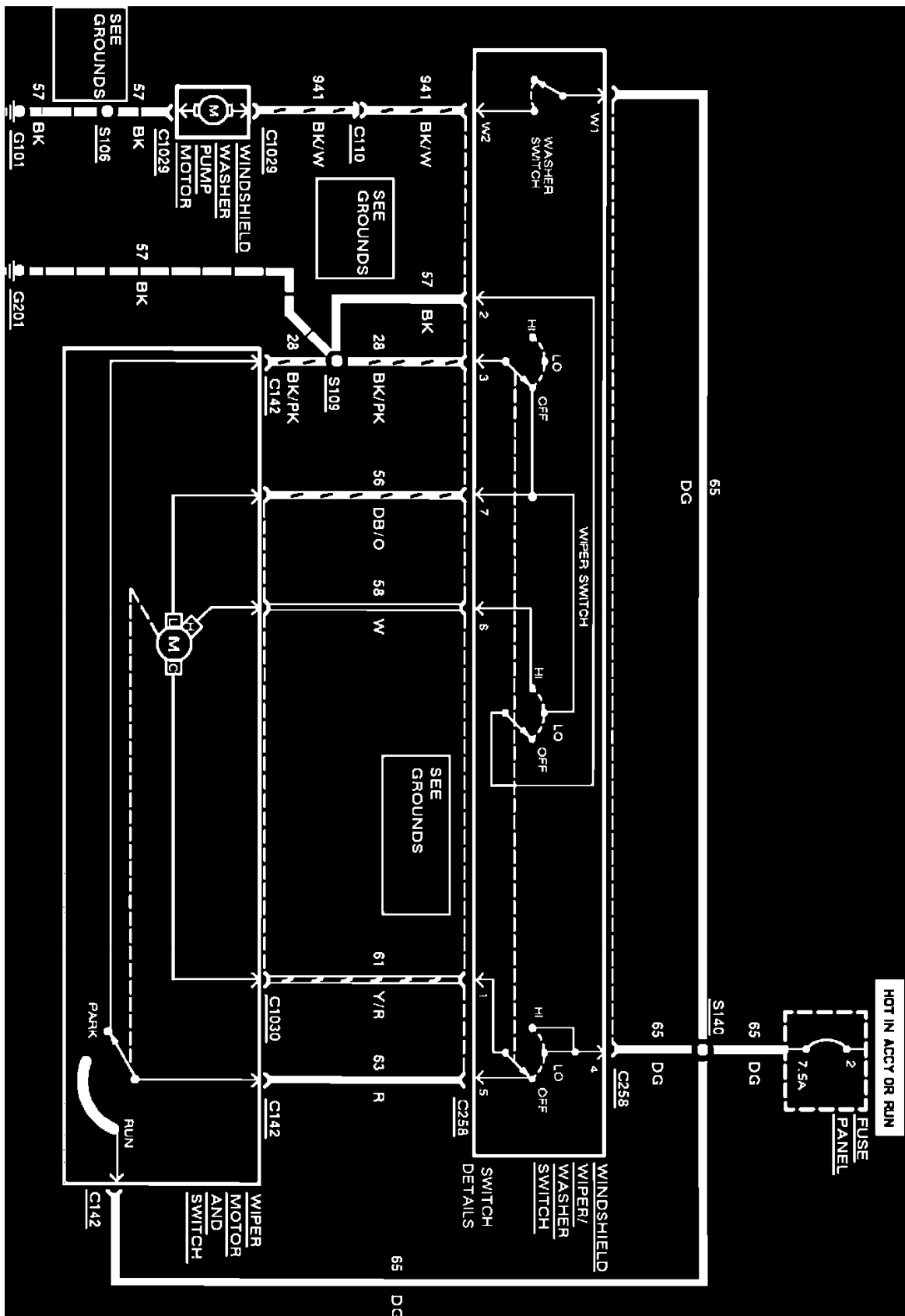
Interval Wiper/Washer



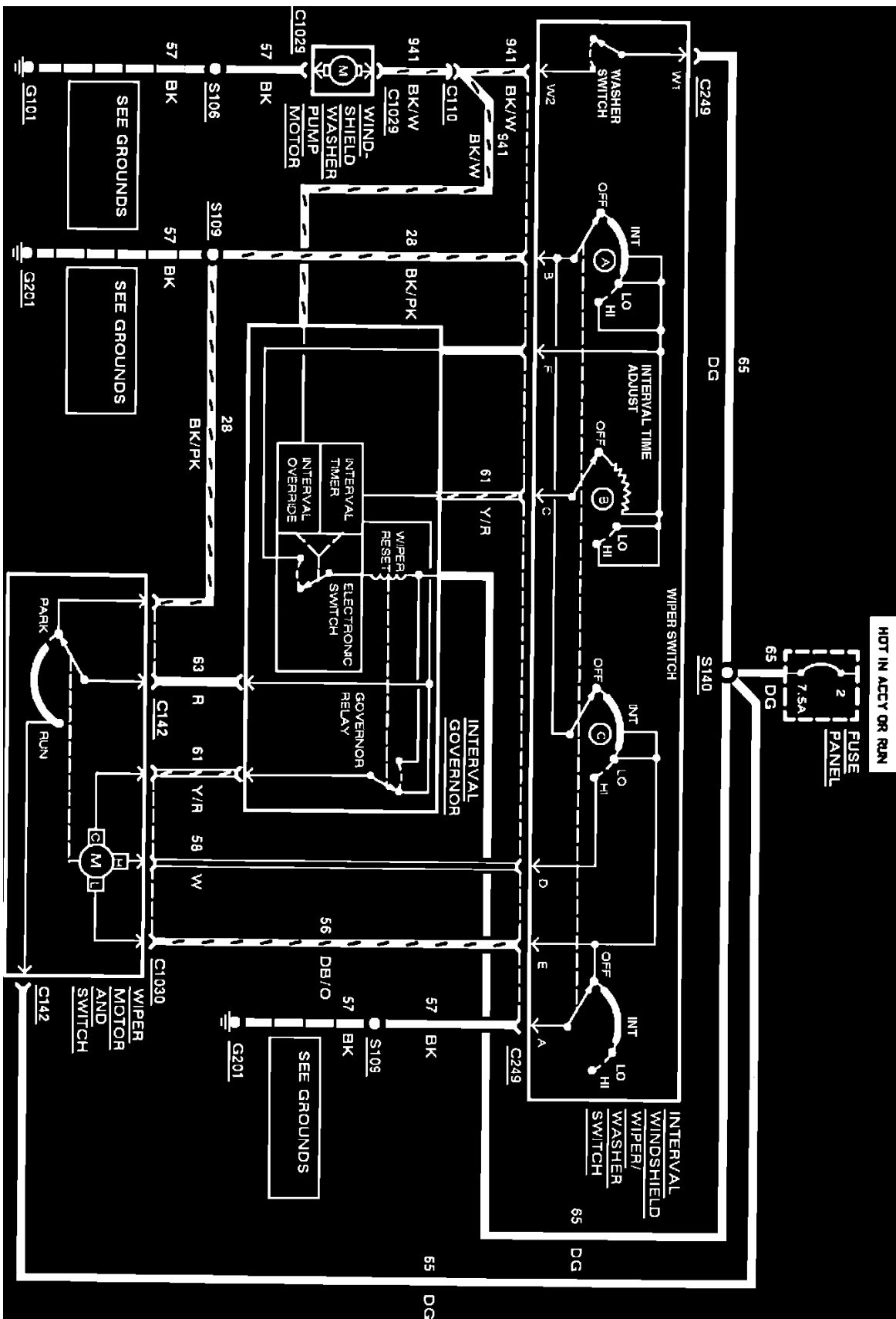
Wiper/Washer



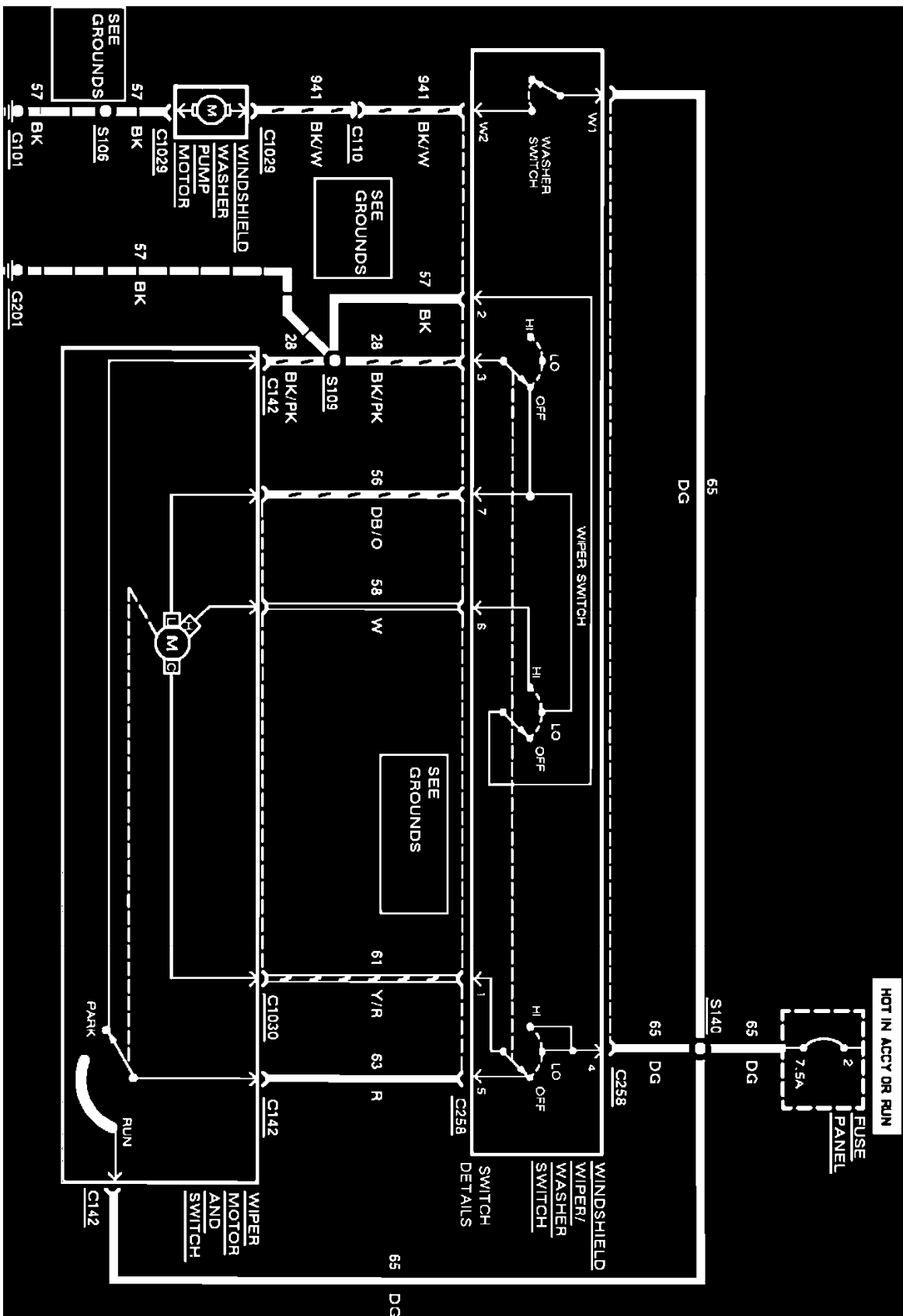
Interval Wiper/Washer



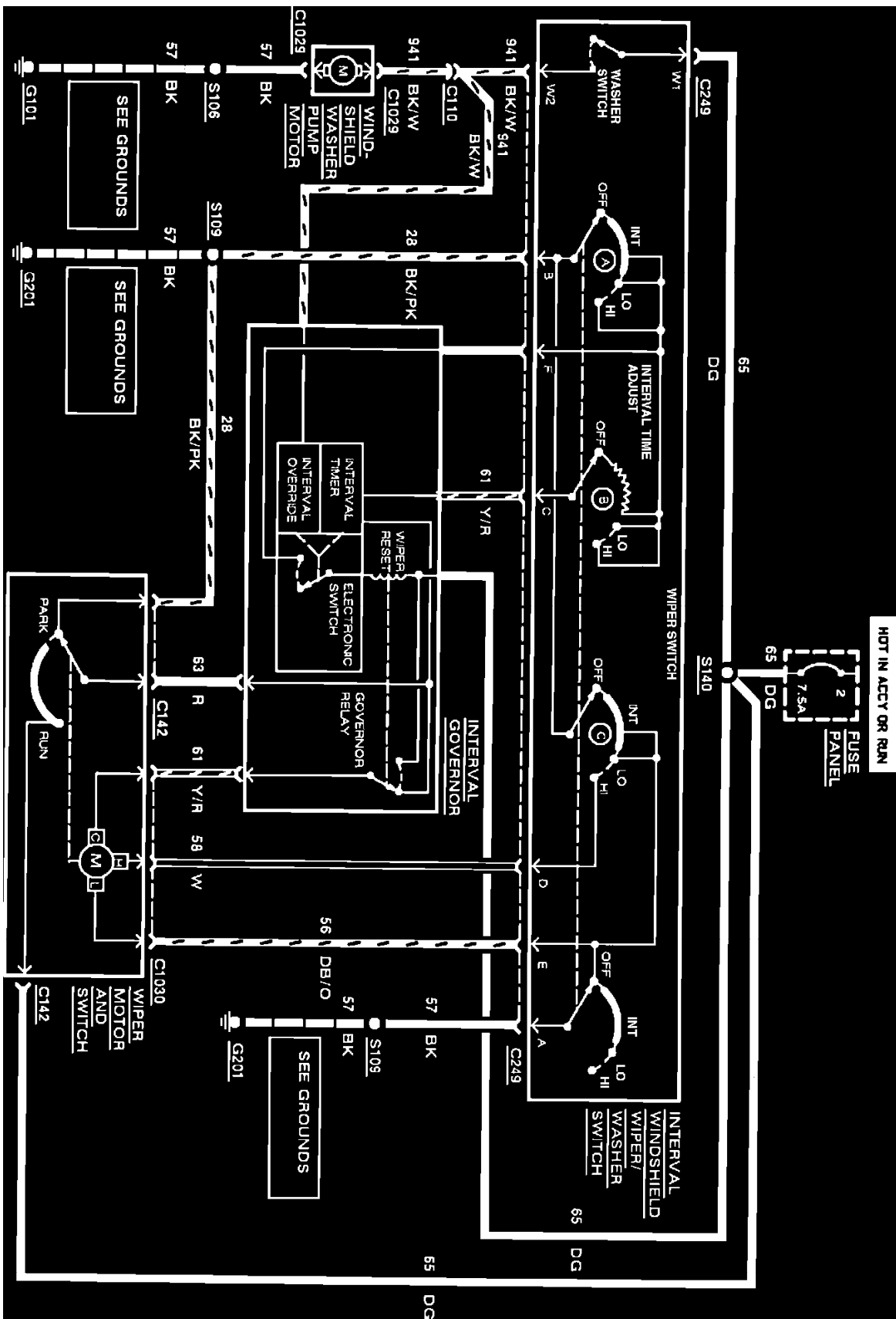
Wiper/Washer



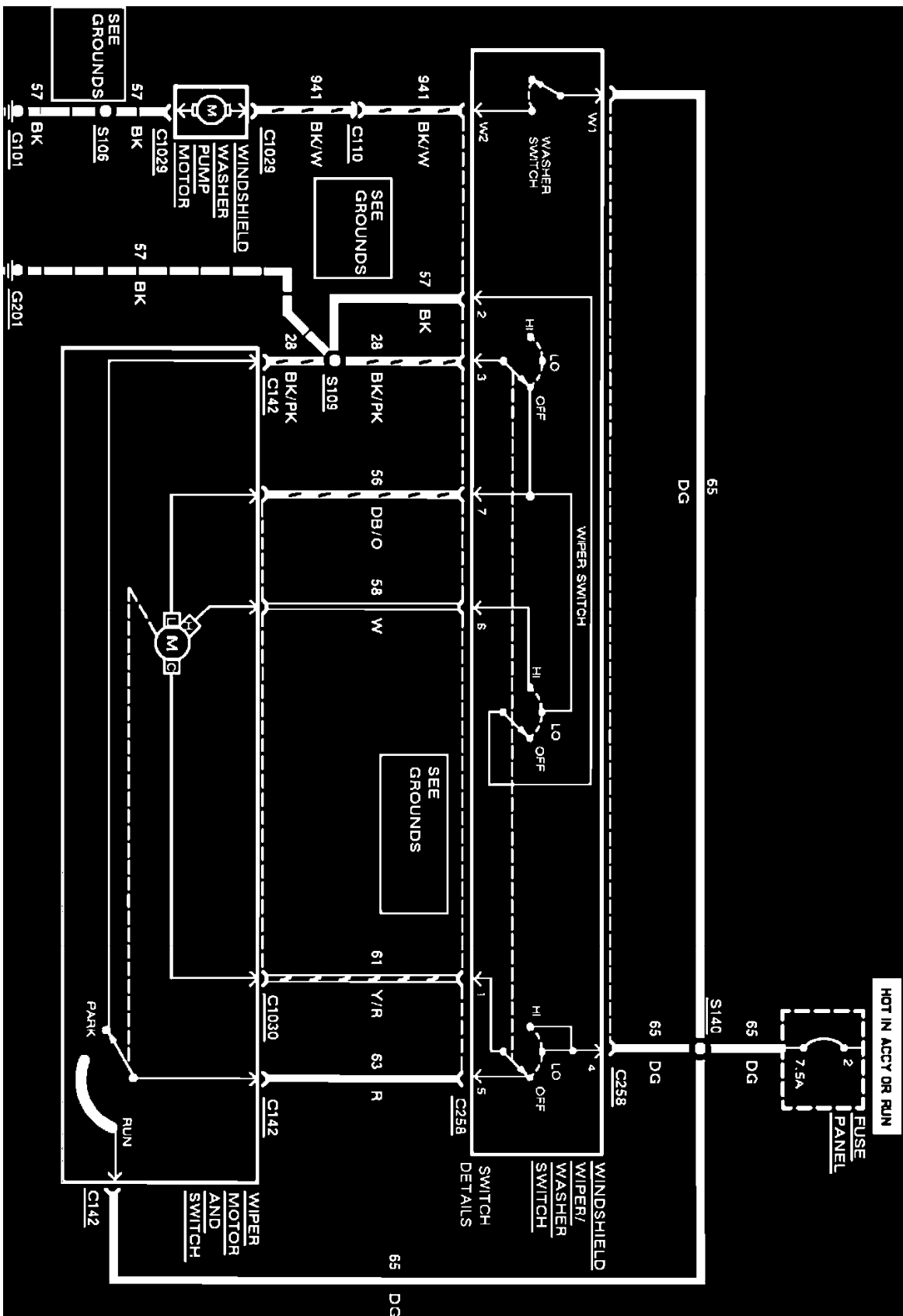
Interval Wiper/Washer



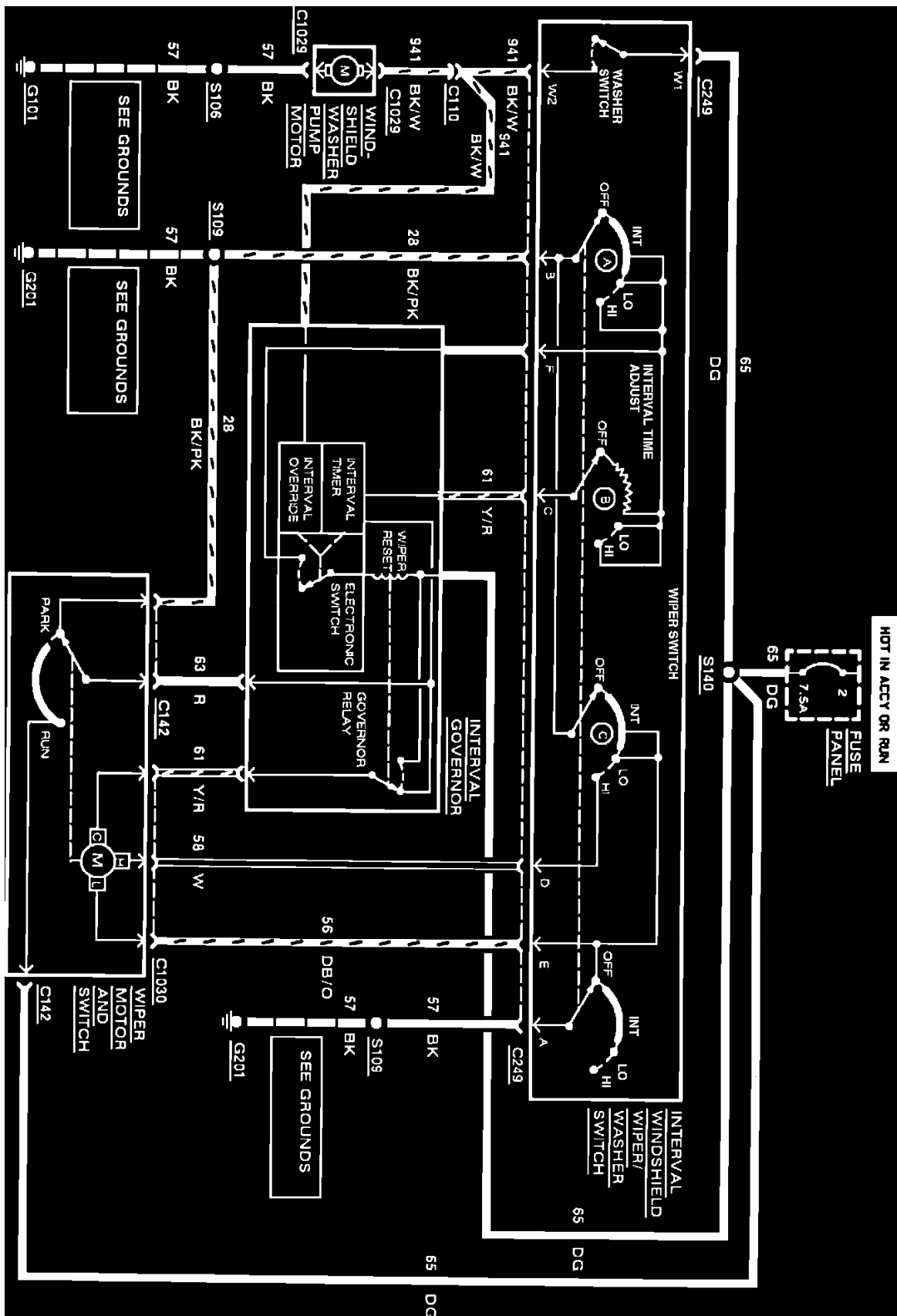
Wiper/Washer



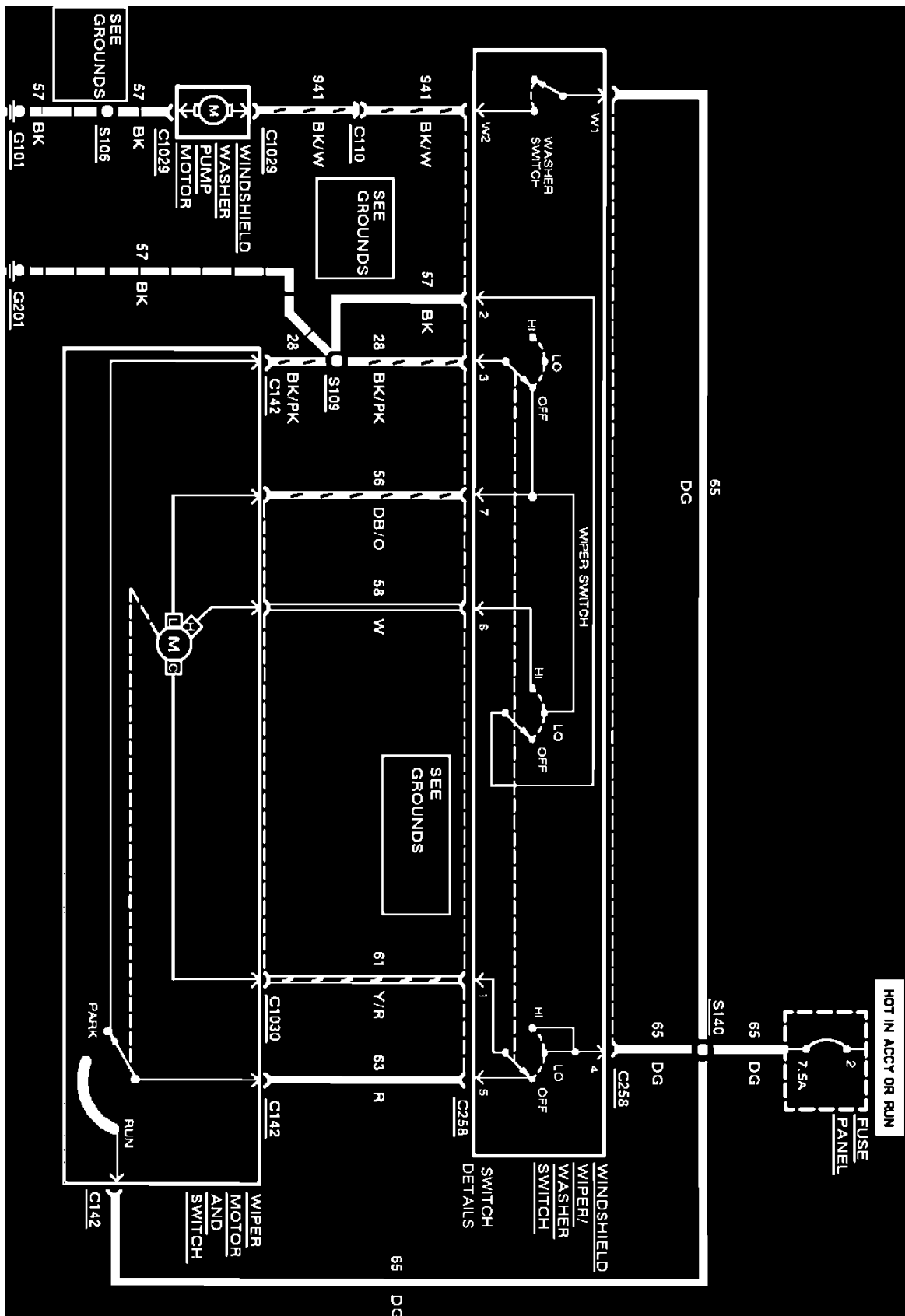
Interval Wiper/Washer



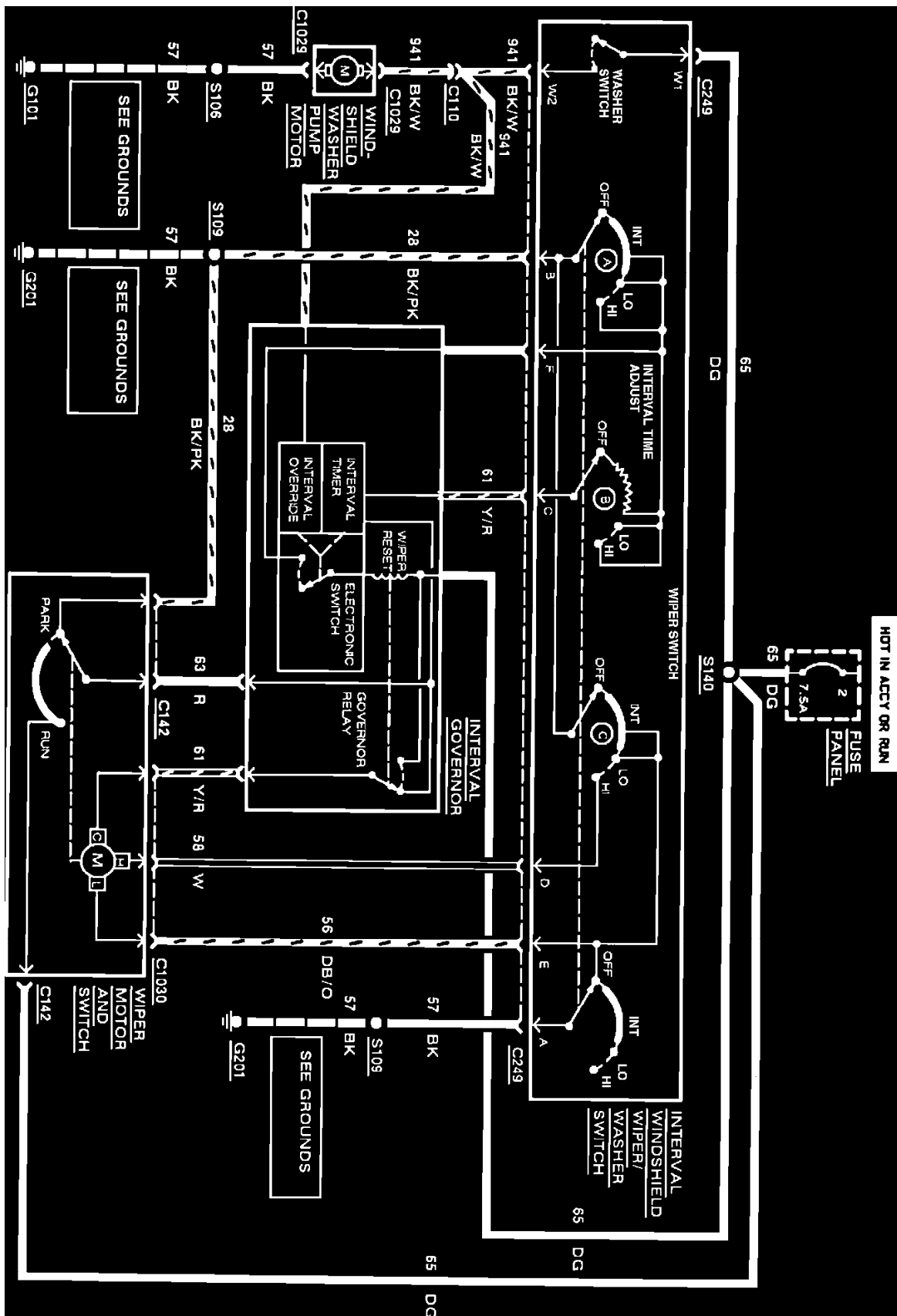
Wiper/Washer



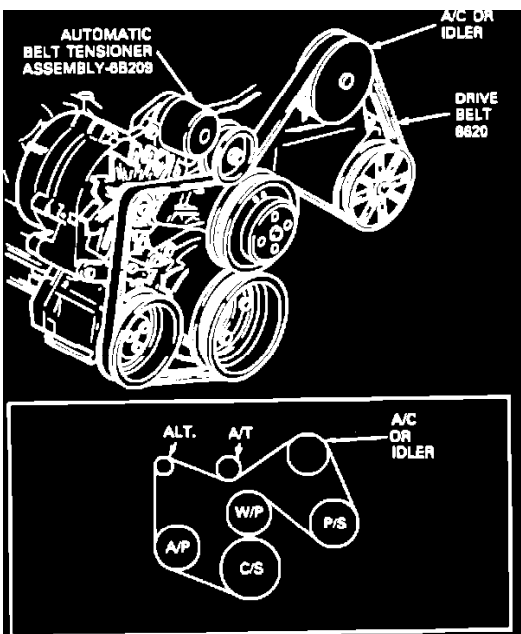
Interval Wiper/Washer



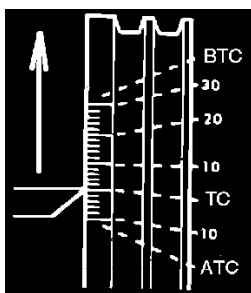
Wiper/Washer



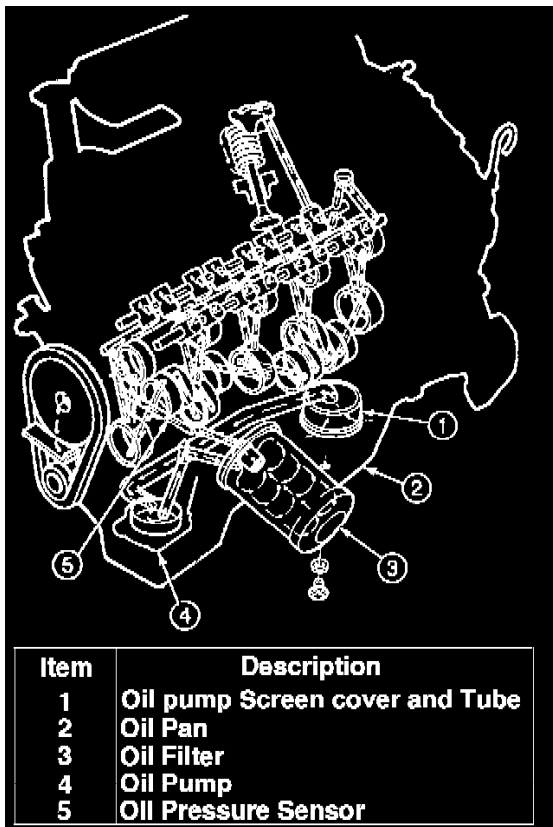
Interval Wiper/Washer



Drive Belt Routings



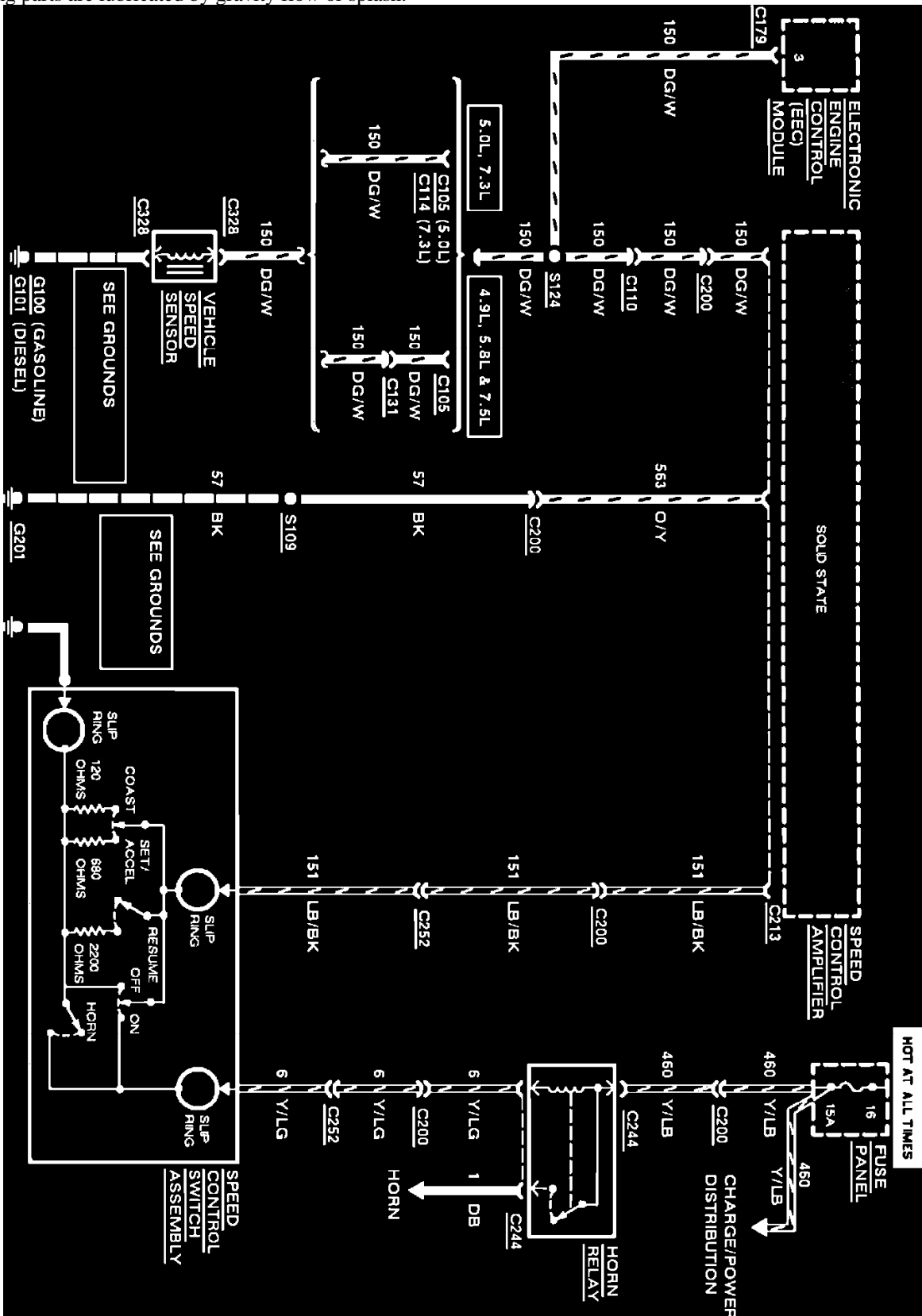
Engine Lubrication



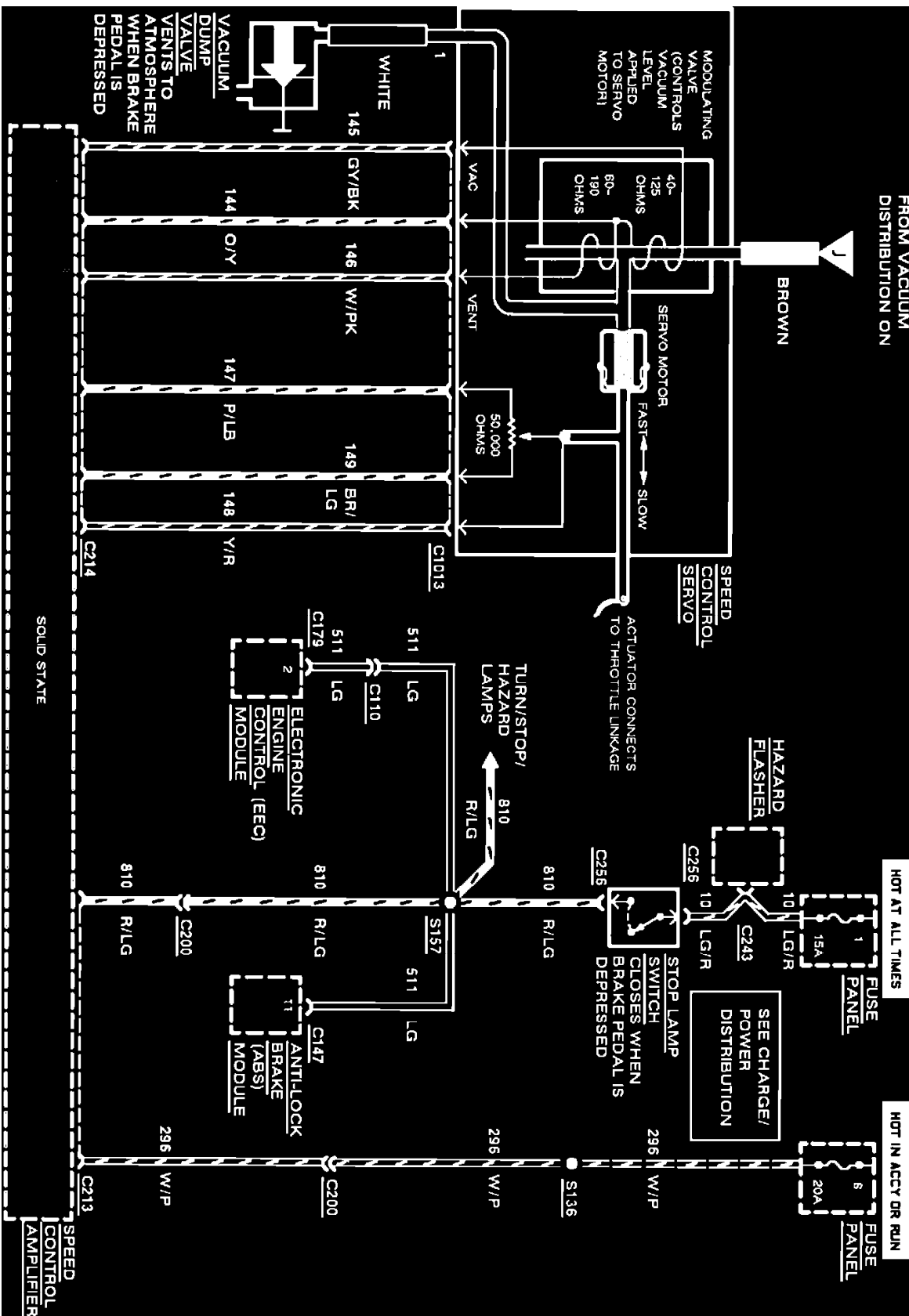
Item	Description
1	Oil pump Screen cover and Tube
2	Oil Pan
3	Oil Filter
4	Oil Pump
5	Oil Pressure Sensor

5.0L/5.8L Lubrication System

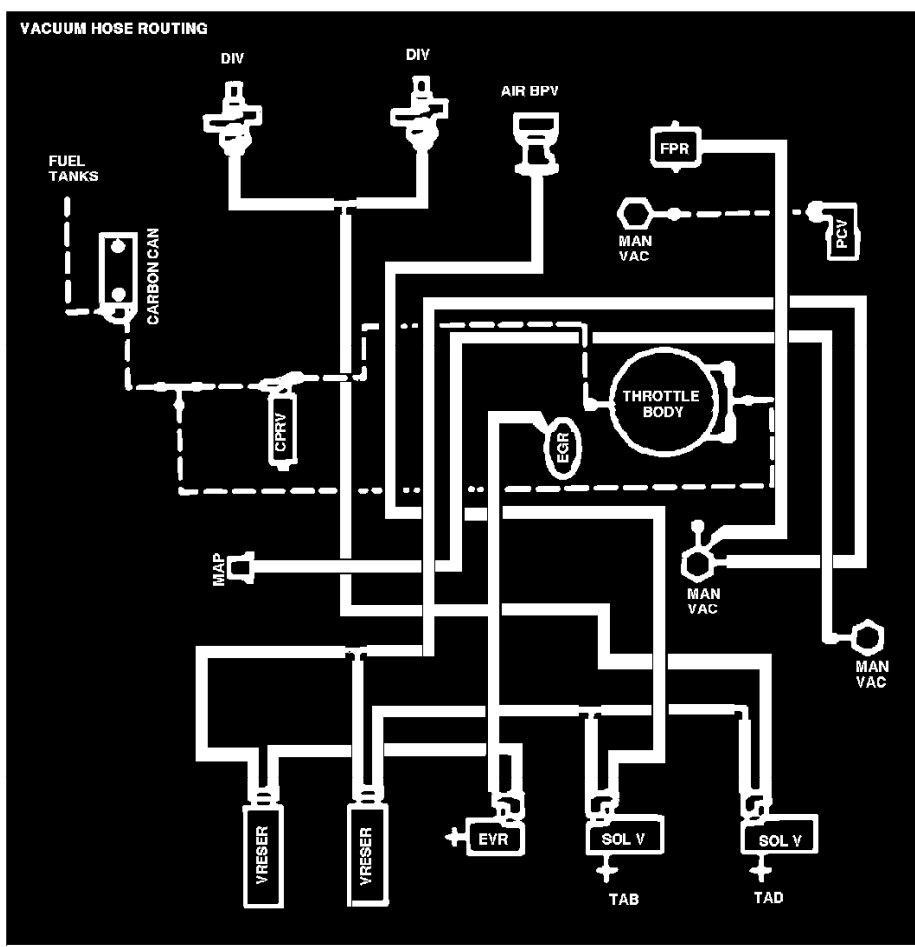
The engine lubrication system is of the force-feed type in which oil is supplied under full pressure to the crankshaft and connecting rod bearings, valve tappets and camshaft bearings. From the valve tappets, a controlled volume of oil is supplied to the rocker arms through hollow push rods. All other moving parts are lubricated by gravity flow or splash.



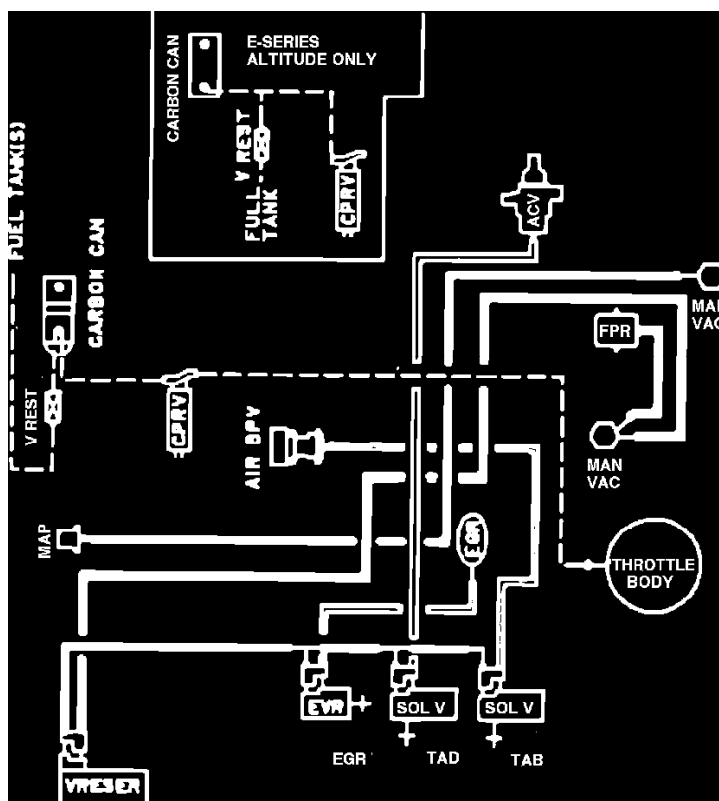
Cruise Control



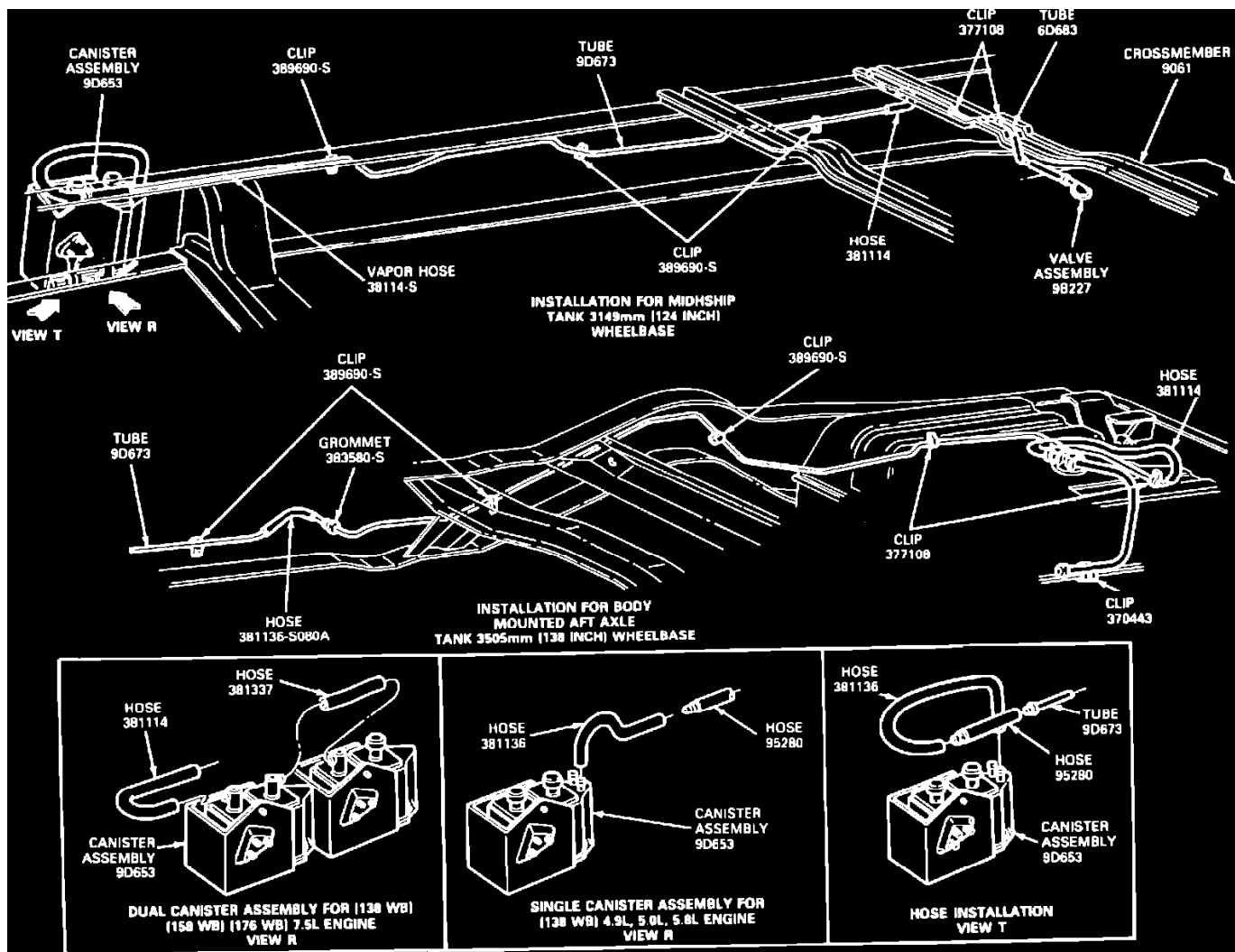
Cruise Control



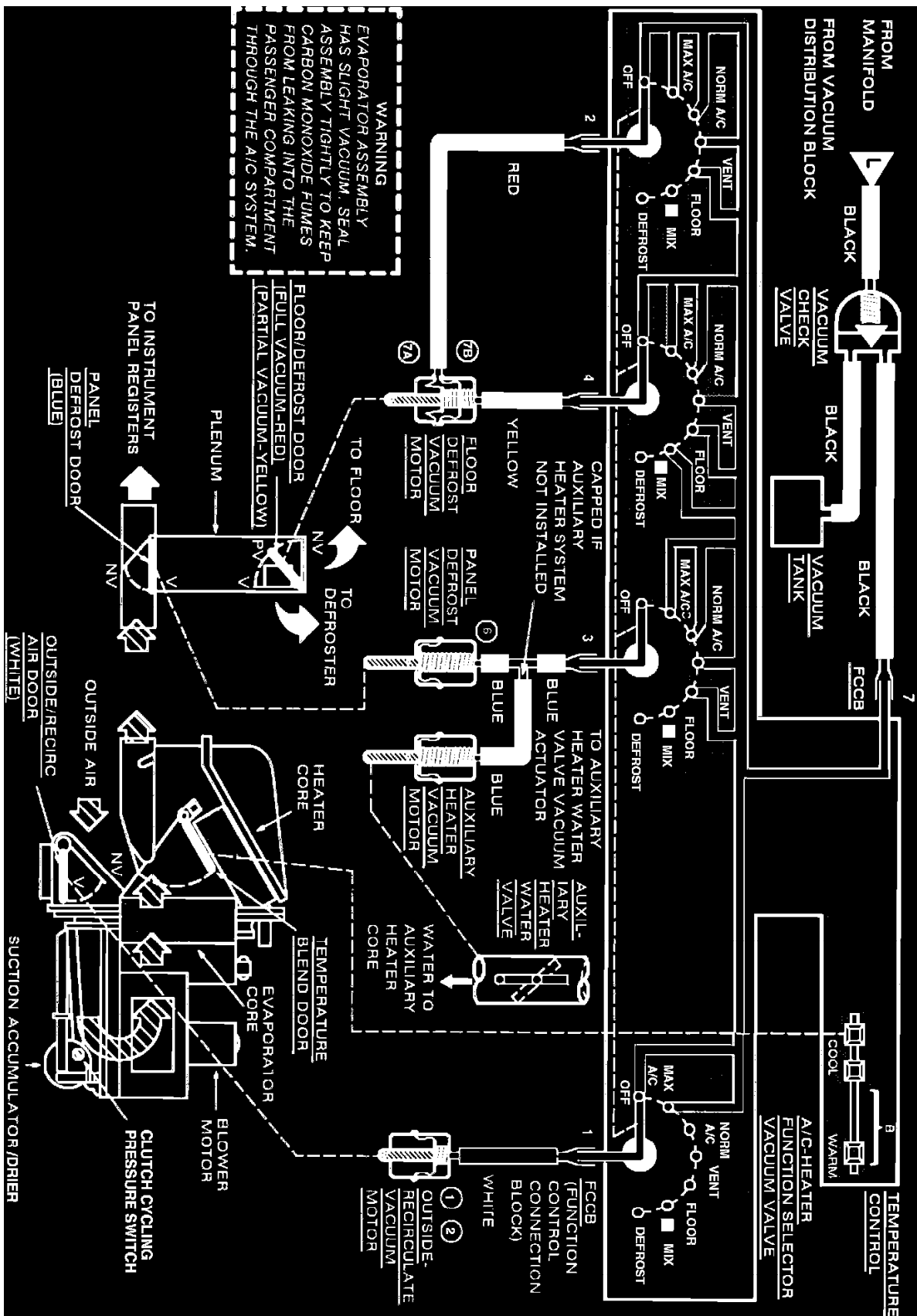
Vacuum and Vapor Hose Diagram



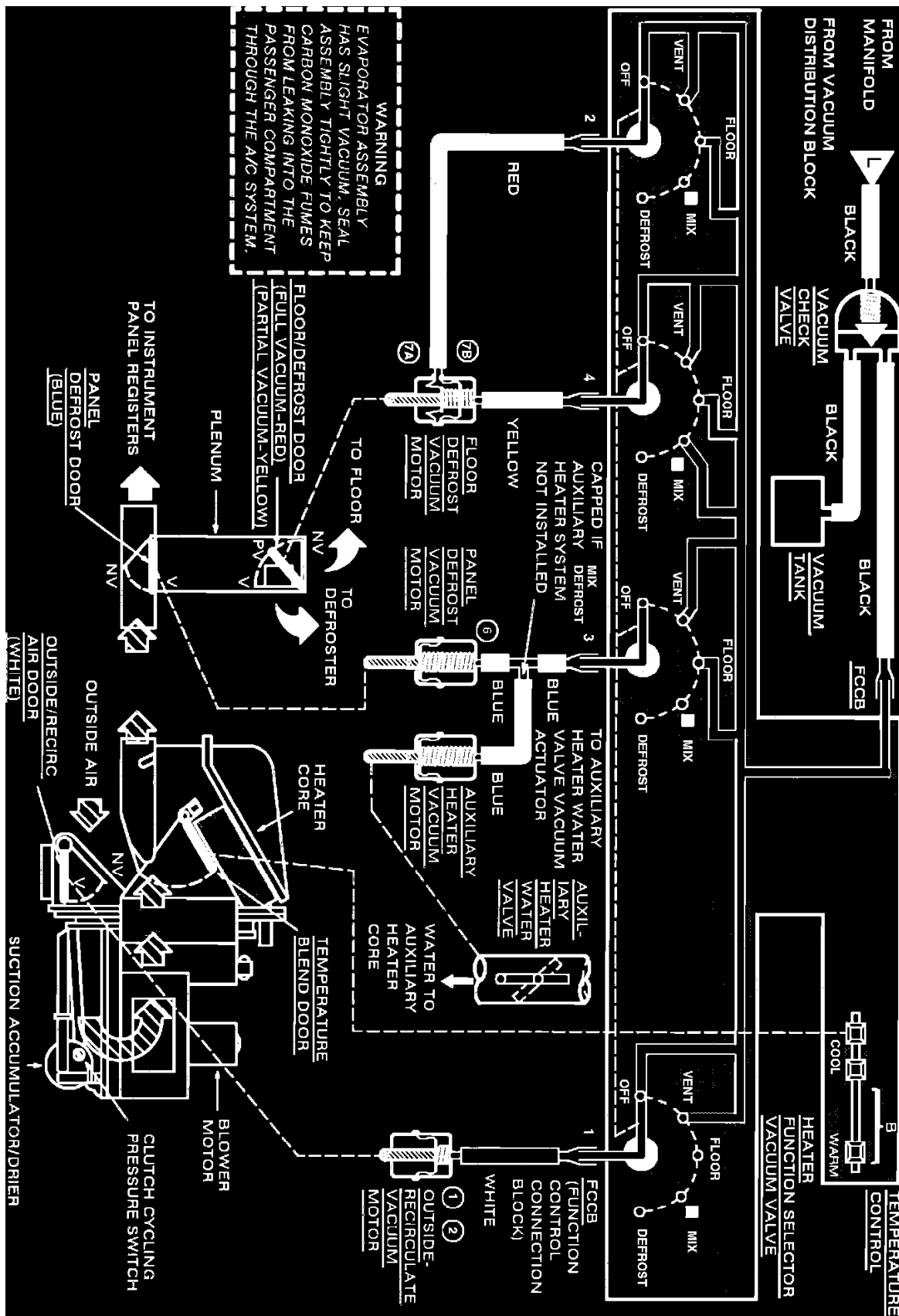
Vacuum Hose Schematic



EVAP Vapor Vent Lines For Single Fuel Tank



Air Conditioning & Heater Vacuum Hose Routing



Heater Vacuum Hose Routing

**Connectors**

- Connector C100:** Center Of Firewall
- Connector C101:** Center Of Firewall
- Connector C102:** Center Of Firewall
- Connector C103:** LH Fender Apron, Near Dual Brake Warning Switch

**Connector C104:** Lower LH Side Of Firewall, Near Dual Brake Warning Switch  
**Connector C105:** Center Of Firewall  
**Connector C106:** Behind LH Side Of Engine, Near Neutral Safety Switch  
**Connector C107:** Behind LH Side Of Engine, Below Vehicle  
**Connector C108:** On LH Front Of Floor Pan, Next To Wheel Hub  
**Connector C109:** Below Driver Seat Next To Seat Belt Buckle  
**Connector C110:** Behind LH Side Of Instrument Panel, Through Bottom Of Firewall  
**Connector C111:** RH Fender Apron, Near Electronic Engine Control  
**Connector C112:** Lower LH Side Of Firewall  
**Connector C113:** Behind LH Cowl Panel  
**Connector C114:** Center Of Firewall  
**Connector C115:** Center Of Firewall  
**Connector C116:** Center Of Firewall  
**Connector C118:** RH Fender Apron, Above EEC Power Relay  
**Connector C119:** LH Side Of Engine, Next To Valve Cover  
**Connector C120:** Center Of Firewall, Near Engine Control Barometric Pressure Sensor  
**Connector C121:** LH Side Of Firewall  
**Connector C122:** RH Fender Apron, Near Battery  
**Connector C123:** Top RH Side Of Engine, Near Alternator  
**Connector C124:** Top RH Side Of Engine, Near Alternator  
**Connector C125:** Front Of LH Fender Apron, Near Horns  
**Connector C126:** Lower LH Corner Of Firewall  
**Connector C129:** Top Rear Of Engine  
**Connector C131:** Lower RH Rear Of Engine  
**Connector C132:** Center Of Firewall  
**Connector C133:** Lower LH Side Of Firewall  
**Connector C136:** LH Side Of Firewall, On Wiper Motor & Switch  
**Connector C137:** LH Side Of Firewall, On Wiper Motor & Switch  
**Connector C138:** Inside RH Front Fender  
**Connector C139:** Inside RH Front Fender  
**Connector C159:** RH Fender Apron, Near Blower Motor  
**Connector C160:** RH Fender Apron, Near Blower Motor  
**Connector C161:** On RH Fender Apron, Near Blower Resistor  
**Connector C163:** Front RH Side Of Engine, Near Distributor  
**Connector C166 (4.9L/6-300 & 7.5L/V8-460):** LH Side Of Engine, Near Tape Out To Ignition Coil  
**Connector C166 (5.0L/V8-302 & 5.8L/V8-351):** RH Side Of Engine, Near Tape Out To Water Temperature Indicator  
**Connector C199:** Near HEGO Sensor  
**Connector C200:** Below LH Side Of Instrument Panel, Attached To Steering Column Support Near Speed Control Amplifier  
**Connector C201:** Behind LH Cowl Panel  
**Connector C202:** Behind LH Cowl Panel  
**Connector C203:** Behind RH Cowl Panel  
**Connector C204:** Behind Center Of Instrument Panel, On Radio  
**Connector C205:** Behind Center Of Instrument Panel, On Radio  
**Connector C206:** Behind Center Of Instrument Panel, On Radio Amplifier  
**Connector C207:** Behind Center Of Instrument Panel, On Radio Amplifier  
**Connector C208:** Behind LH Side Of Instrument Panel, Above Fuse Panel  
**Connector C209:** Behind LH Cowl Panel  
**Connector C210:** Behind LH Side Of Instrument Panel, Above Fuse Panel Bracket  
**Connector C211:** Behind Center Of Instrument Panel, Near Instrument Cluster  
**Connector C212:** Behind RH Side Of Instrument Panel, Above Cowl Panel  
**Connector C213:** On Speed Control Amplifier  
**Connector C214:** On Speed Control Amplifier  
**Connector C215:** Behind RH Side Of Instrument Panel, Above Cowl Panel  
**Connector C216:** Behind Lower RH Cowl Panel  
**Connector C217:** Behind LH Cowl Panel  
**Connector C218:** Behind RH Cowl Panel  
**Connector C219:** Behind LH Cowl Panel  
**Connector C220:** Behind RH Cowl Panel  
**Connector C221:** Behind RH Side Of Instrument Panel, Near Top Of RH Cowl Panel  
**Connector C222:** Behind LH Side Of Instrument Panel, Near Fuse Panel  
**Connector C223:** Behind LH Cowl Panel  
**Connector C224:** Behind Center Of Instrument Panel  
**Connector C225:** Behind LH Side Of Instrument Panel, Near Fuse Panel  
**Connector C227:** LH Side Of Instrument Panel, Near Main Light Switch  
**Connector C228:** LH Side Of Instrument Panel, Near Fuse Panel

**Connector C229:** Upper RH Cowl, Near Access Hole  
**Connector C230:** On Instrument Panel, RH Side Of Radio  
**Connector C231:** Behind Center Of Instrument Panel, Near Rear Of Radio  
**Connector C252:** Behind LH Side Of Instrument Panel, Near Base Of Steering Column  
**Connector C261:** Behind RH Side Of Instrument Panel  
**Connector C300:** Below Drivers Seat Next To Seat Belt Buckle  
**Connector C301:** Below Vehicle, Along LH Frame Rail  
**Connector C302:** Below Vehicle, Near Center Of LH Frame Rail  
**Connector C303:** Below Vehicle, Along LH Frame Rail  
**Connector C304:** Below Rear Of Vehicle, Along LH Frame Rail  
**Connector C305:** Under Vehicle, Along LH Frame Rail  
**Connector C306:** Below Vehicle, Along LH Frame Rail  
**Connector C307:** Below Vehicle, Along LH Frame Rail  
**Connector C308:** At Throw Away Fuel Gauge Sender & Pump  
**Connector C400:** Below LH Rear Corner Of Vehicle, Near LH Frame Rail  
**Connector C401:** Below Rear Of Vehicle, Near LH Frame Rail  
**Connector C402:** In LH Rear Corner Of Van, Behind Stoplamp Assembly

## Grounds

**Ground G100 (4.9L/6-300):** Lower RH Rear Of Engine, On Starter Bolt  
**Ground G100 (5.0L/V8-302, 5.8L/V8-351, 7.3L/V8-444 & 7.5L/V8-460):** Lower RH Front Of Engine  
**Ground G101:** Top Of RH Fender, Near Fuel Pump Relay  
**Ground G102:** Top Of LH Fender  
**Ground G115:** Lower LH Side Of 7.3L/V8-444 Diesel Engine  
**Ground G116:** Top RH Front Of Engine, Near Alternator  
**Ground G200:** Behind Center Of Instrument Panel, On Radio Rear Mounting Stud  
**Ground G201:** Behind LH Side Of Instrument Panel, Near Fuel Tank Selector Switch  
**Ground G300:** Below Vehicle, Along LH Frame Rail Near C306

## Splices

**Splice S100:** Engine Harness, In Tape Out To Battery Ground Pigtail  
**Splice S101:** Engine Harness, Near Tape Out To RH Front Side Marker Lamp  
**Splice S102:** Engine Harness, Near Tape Out To Dual Brake Warning Switch  
**Splice S103:** Engine Harness, Near Center Of Firewall  
**Splice S104:** Engine Harness, Near Tape Out To Electronic Engine Control Module  
**Splice S105:** Alternator Rectifier Harness, Near Tape Out To C118  
**Splice S106:** Engine Harness, Near Tape Out To Fuse Links S & W  
**Splice S109:** Main Harness, Near Tape Out To Fuse Links S & W  
**Splice S111:** Engine Harness, Near Tape Out To Blower Motor  
**Splice S112:** Engine Harness, Near Tape Out To C110  
**Splice S113:** Engine Harness, Near Tape Out To Dual Brake Warning Switch  
**Splice S115:** Main Harness, In Tape Out To Ignition Switch  
**Splice S117:** Engine Harness, Near Tape Out To RH Front Side Marker Lamp  
**Splice S120 (4.9L/6-300):** Instrument Panel To Engine Jumper Harness, Near Tape Out To C129  
**Splice S120 (5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Engine Harness, In Tape Out To C1984  
**Splice S121:** Engine Harness, Near Tape Out To Blower Motor  
**Splice S122 (4.9L/6-300, 5.0L/V8-302 & 5.8L/V8-351):** Engine Harness, Near Tape Out To Fuse Links D & E  
**Splice S122 (7.3L/V8-460):** Engine Harness, Near Tape Out To C110  
**Splice S122 (7.5L/V8-460):** Engine Harness, Near Tape Out To Fuse Links S & W  
**Splice S123:** Engine Harness, Near Tape Out To Fuel Pump Relay  
**Splice S124 (Diesel):** Engine Harness, Near Tape Out To C114  
**Splice S124 (Except Diesel):** Engine Harness, Near Tape Out To C105  
**Splice S125:** Back-Up To Rear Lamp Harness, Near Tape Out To E40D Transmission  
**Splice S126:** Back-Up Lamp Harness, Near Tape Out To Transmission  
**Splice S127:** Courtesy Lamp Harness, Near Tape Out To RH Seat Belt Retractor Solenoid  
**Splice S128:** Engine Harness, In Tape Out To Blower Motor Resistors  
**Splice S129:** Window Regulator Harness, Near Tape Out To Door Lock/Unlock Control Relay  
**Splice S130:** Window Regulator Harness, Near Tape Out To Door Lock/Unlock Control Relay  
**Splice S132:** Window Regulator Harness, Near Tape Out To Door Lock/Unlock Control Relay  
**Splice S133:** Window Regulator Harness, Near Tape Out To Door Lock/Unlock Control Relay  
**Splice S134:** Main Harness, Near Tape Out To A/C Function Selector Switch  
**Splice S135:** Engine Harness, Near Tape Out To Dual Brake Warning Switch  
**Splice S136:** Main Harness, Near Tape Out To Main Light Switch  
**Splice S139:** Main Harness, Near Tape Out To Fuel Tank Selector Switch

**Splice S140:** Main Harness, Near Tape Out To Wiper Motor & Switch  
**Splice S143 (5.0L/V8-302 & 5.8L/V8-351):** Fuel Charge Harness, Near Tape Out To TFI Ignition Module  
**Splice S143 (7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To C100  
**Splice S144:** Fuel Charge Harness, Near Tape Out To Ignition Coil  
**Splice S145:** Main Harness, Near Tape Out To Anti-Lock Brake Module  
**Splice S146:** Main Harness, Near Tape Out To Ignition Switch  
**Splice S147:** Main Harness, Near Tape Out To Clutch Switch  
**Splice S148:** Engine Harness, Near Tape Out To C100  
**Splice S150 (4.9L/6-300, 5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Engine Harness, Near Tape Out To Electronic Engine Control  
**Splice S150 (7.3L/V8-444):** Engine Harness, Near Tape Out To TECA Power Relay On RH Side Of Firewall  
**Splice S152 (4.9L/6-300, 5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Engine Harness, Near Tape Out To Electronic Engine Control  
**Splice S152 (7.3L/V8-444):** Engine Harness, Near Tape Out To TECA Power Relay On RH Side Of Firewall  
**Splice S153:** Engine Harness, Near Tape Out To Engine Control Barometric Pressure Sensor  
**Splice S154 (4.9L/6-300):** Instrument Panel To Engine Jumper Harness, Near Tape Out To C117  
**Splice S154 (5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Fuel Injector 3  
**Splice S154 (7.3L/V8-444):** Fuel Charge Harness, Near Tape Out To Tachometer  
**Splice S155:** Main Harness, Near Tape Out To Warning Chime Module  
**Splice S156:** Main Harness, Near Tape Out To Inertia Switch  
**Splice S157:** Main Harness, Near Tape Out To Clutch Switch  
**Splice S158:** Main Harness, Near Tape Out To Inertia Switch  
**Splice S159:** Engine Harness, Near Tape Out To Fuel Pump Relay  
**Splice S160:** Main Harness, Near Tape Out To Warning Chime Module  
**Splice S161:** Main Harness, Near Tape Out To Anti-Lock Brake Module  
**Splice S162:** Engine Harness, Near Tape Out To TFI Ignition Module  
**Splice S163:** Engine Harness, Near Tape Out To C121  
**Splice S164:** Engine Harness, Near Tape Out To C121  
**Splice S165:** Engine Harness, Near Tape Out To EEC Module  
**Splice S166:** Engine Harness, Near Tape Out To Windshield Washer Pump Motor  
**Splice S167:** Fuel Charge Harness, Near Tape Out To TFI Ignition Module  
**Splice S168:** Main Harness, Near Tape Out To Warning Chime Module  
**Splice S170:** Rear Lamp Harness, Near Tape Out To Throw Away Fuel Gauge & Sender  
**Splice S202:** Main Harness, Near Tape Out To Windshield Wiper/Washer Switch  
**Splice S205:** Interior Lamp Feed Harness, Near Tape Out To Dome/Map Lamps  
**Splice S221:** Main Harness, Near Tape Out To Headlamp Switch  
**Splice S230:** Main Harness, Near Tape Out To Parking Brake Switch  
**Splice S231:** Window Regulator Harness, Near Tape Out To Lock/Unlock Control Relay  
**Splice S235:** Rear Door Lock Harness, Near Tape Out To Side Door Switch  
**Splice S236:** Rear Door Lock Harness, Near Tape Out To Side Door Switch  
**Splice S302:** Main Harness, Near Tape Out To Stop Lamp Switch  
**Splice S400:** Rear Lamp Harness, Near Tape Out To C303  
**Splice S401:** Rear Lamp Harness, Near Tape Out To Front Fuel Tank  
**Splice S402:** Rear Lamp Harness, Near Tape Out To RH Back-Up Lamp  
**Splice S403:** Rear Lamp Harness, Near Tape Out To LH Back-Up Lamp  
**Splice S405:** Rear Lamp Harness, Near Tape Out To Fuel Booster Pump  
**Splice S406:** Rear Lamp Harness, Near Tape Out To C303  
**Splice S407:** Rear Lamp Harness, Near Tape Out To RH Back-Up Lamp  
**Splice S408:** Rear Lamp Connector Harness, Near Tape Out To LH Turn Signal Lamp  
**Splice S409:** Rear Lamp Harness, Near Tape Out To C112  
**Splice S410:** Rear Lamp Harness, Near Tape Out To C112  
**Splice S411:** Rear Lamp Harness, Near Tape Out To C303  
**Splice S412:** Rear Lamp Connector Harness, Near Tape Out To Trailer Lamps Relay  
**Splice S413:** Rear Lamp Harness, Near Tape Out To ABS Rear Axle Sensor  
**Splice S414:** Rear Lamp Harness, Near Tape Out To ABS Rear Axle Sensor  
**Splice S502:** Engine Harness, Near Tape Out To C110  
**Splice S503:** Engine Harness, Near Tape Out To C110  
**Splice S504:** Engine Harness, Near Tape Out To C110  
**Splice S610:** Rear Lamp Harness, Near Tape Out To C305  
**Splice S611:** Rear Lamp Extension Harness, Near Tape Out To G300  
**Splice S615:** Rear Lamp Harness, Near Tape Out To Trailer Lamps Relay  
**Splice S616:** Rear Lamp Harness, Near Tape Out To C402  
**Splice S669 (4.9L/6-300 & 7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 3  
**Splice S669 (5.0L/V8-302 & 5.8L/V8-351):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 8  
**Splice S678 (4.9L/6-300, 5.0L/V8-302 & 5.8L/V8-351):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 4  
**Splice S678 (7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 7  
**Splice S811:** Courtesy Lamp Harness, Near Tape Out To RH Seat Belt Retractor

**Splice S819:** Dash Of Engine Harness, Near Tape Out To Throttle Position Sensor

**Splice S822:** Main Harness, Near Tape Out To LH Door Jamb Switch

**Splice S889:** Fuel Charge Harness, Near Tape Out To EGR Valve Position Sensor

**Splice S890 (4.9L/6-300):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 5

**Splice S890 (5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 7

**Splice S891 (4.9L/6-300):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 3

**Splice S891 (5.0L/V8-302, 5.8L/V8-351 & 7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 4

**Splice S898:** Fuel Charge Harness, Near Tape Out To Fuel Injector No. 1

**Splice S899 (5.0L/V8-302 & 5.8L/V8-351):** Fuel Charge Harness, Near Tape Out To Throttle Position Sensor

**Splice S899 (7.5L/V8-460):** Fuel Charge Harness, Near Tape Out To Air Charge Temperature Sensor