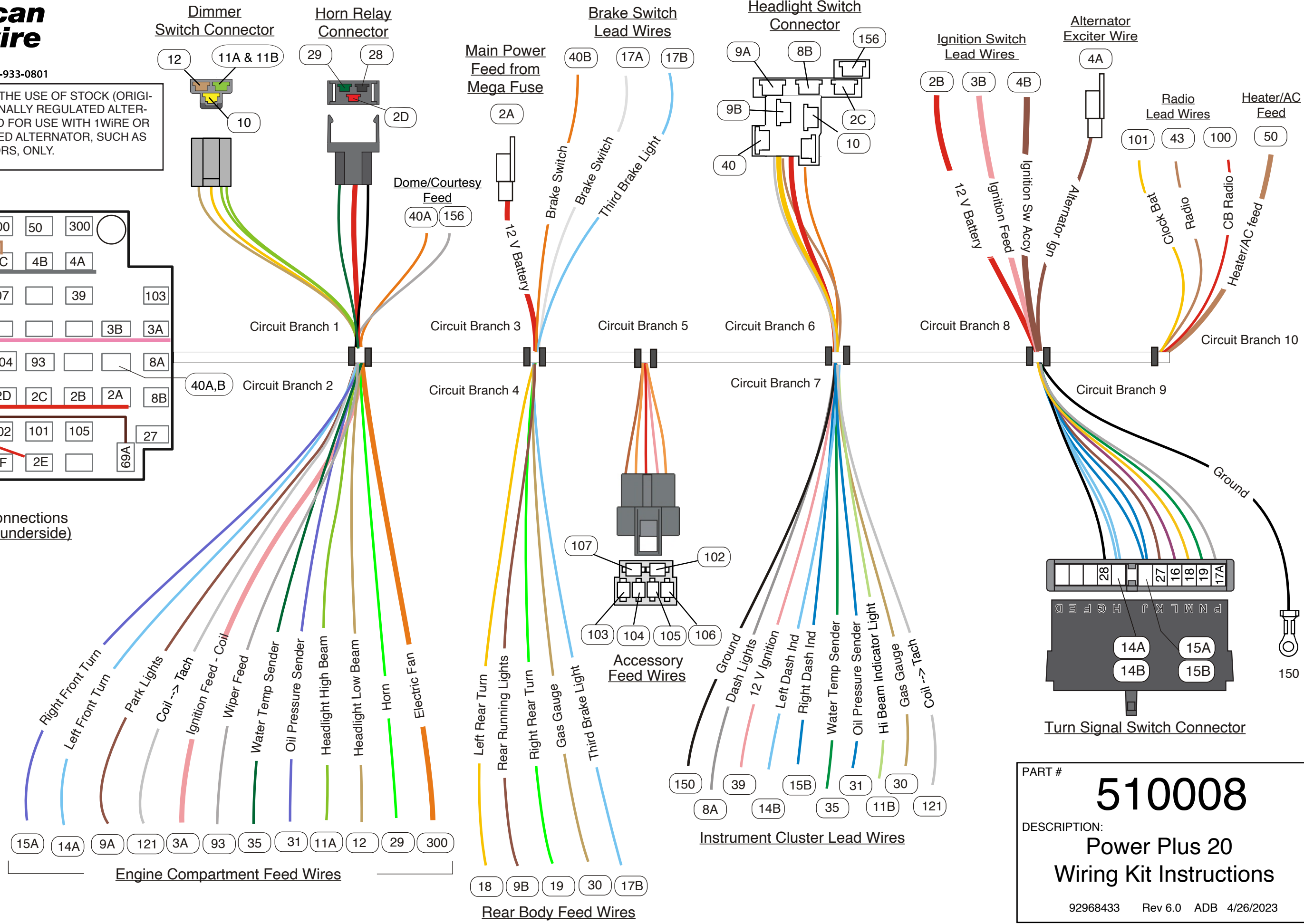
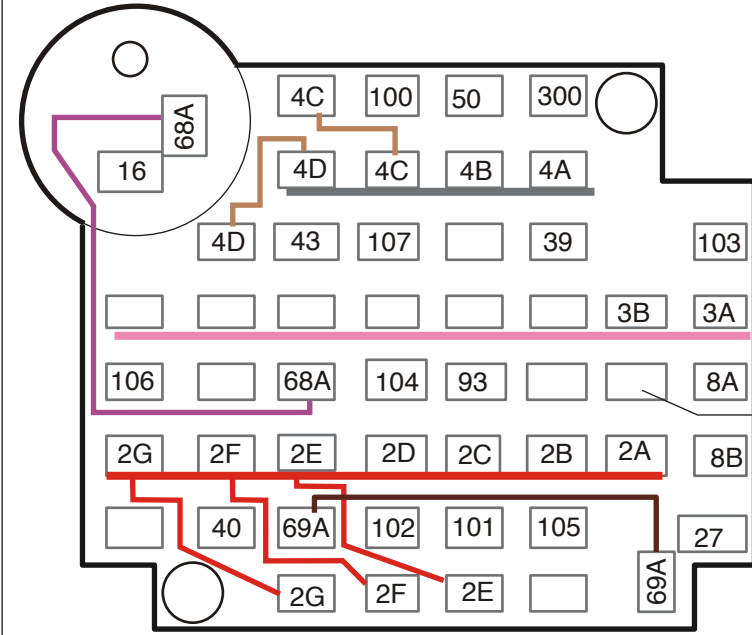


THIS KIT DOES NOT SUPPORT THE USE OF STOCK (ORIGINAL) GENERATORS OR EXTERNALLY REGULATED ALTERNATORS. THIS KIT IS DESIGNED FOR USE WITH 1WIRE OR 3-WIRE INTERNALLY REGULATED ALTERNATOR, SUCH AS THE GM SI SERIES ALTERNATORS, ONLY.



PART # **510008**

DESCRIPTION: **Power Plus 20 Wiring Kit Instructions**

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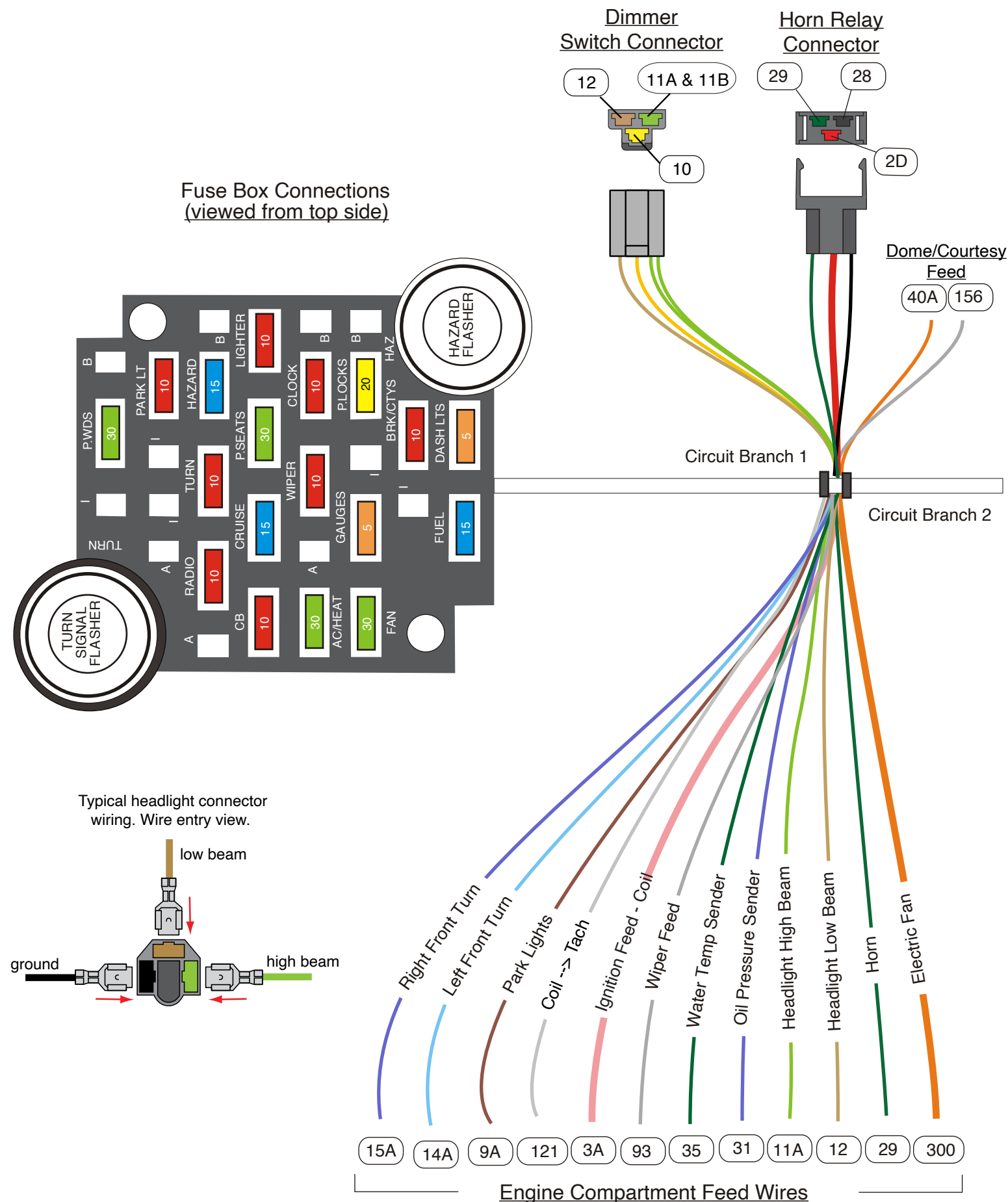
The enclosed representation of the main dash harness shows each circuit branch and identifies each connection by its color and function. Follow the drawing for the individual circuit connections.

Circuit Branch 1 - Horn and Dimmer Switch connections

1. Ensure that the Horn relay is plugged into the connector. No further action is required.
2. Ensure that the Dimmer switch is plugged into the connector.
3. The orange Dome Courtesy Feed wire (40A) routes to the courtesy light power feed. Most courtesy lights are activated by the headlight switch or individual door jamb switches setting a ground connection.
4. The white Courtesy Ground wire (156) routes to the courtesy light ground.
This wire enables the headlight switch to turn on the courtesy lights.

Circuit Branch 2- Front end connections

1. Select the dark blue Right Front Turn wire (15A) and connect it to the right front directional lamp socket. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the bright filament of the bulb.
2. Select the light blue Left Front Turn wire (14A) and connect it to the left front directional lamp socket. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the bright filament of the bulb.
3. Select the brown Park Lights wire (9A) and connect it to both the front park / running light sockets. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the dim filament of each of the front running lights. An in-line splice of this wire will be necessary to accommodate wiring of both of the front park / running lights.
4. Select the white Coil to Tachometer wire (121). This can be connected directly to the tach terminal on a GM HEI distributor, to the Negative side of the coil, or a tach connection in an aftermarket ignition module such as an MSD module. See the installation instructions for the type of distributor you are using for specific connection requirements.
5. Select the pink Ignition Feed - COIL wire (3A). This is the 12 volt power source for the distributor or ignition system. This may be connected directly to the distributor, as in a GM HEI distributor, to a ballast resistor as in a points type distributor, or to the ignition power source for an aftermarket ignition module such as an MSD module. See the installation instruction for the type of distributor or ignition system you are using for specific connection requirements.
6. Select the white Wiper feed wire (93). Route and connect it to the wiper motor power connection.
7. Select the dark blue Oil Pressure Sender wire (31). Route and connect it to the electric oil pressure sender.
8. Select the dark green Water Temp Sender wire (35). Route and connect it to the water temperature sender.
9. Select the light green Headlight High Beam wire (11A) and tan Headlight Low Beam wire (12). Route and connect these wires to the headlights. An in-line splice of this wire will be necessary to accommodate wiring of both of the headlights. Using the supplied terminals and connectors, connect these wires along with the headlight ground wires to the headlight connectors according to the orientation in the diagram on this page.
10. Select the dark green Horn feed wire (29). Route and connect it to the horn power terminal. If your horn has a separate ground terminal, you must supply this ground wire as it is not included in the kit.
11. Select the orange Electric Fan Feed wire (300). It is recommended that this wire be routed and connected to a fan relay. This wire is the relay trigger connection and should be connected to terminal (85 or 86) of the relay. Optional fan relay kits 500479, 500511, 500784, 510001, and 510002 are available from American Autowire to accommodate fan amperage requirements.



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Circuit Branch 3 - Main Power and Brake Switch Connections

- 1. Select the orange Brake Switch wire (40B) and connect it to the input side of the brake switch.
- 2. Select the white Brake Switch wire (17A) and connect it to the output side of the brake switch.
- 3. Select the light blue Third Brake Light wire (17B). If you are using a third brake light, route this wire together with the white Brake Switch wire (17A) and connect them both to the output side of the brake switch. If you are not using a third brake light, the light blue Third Brake Light wire (17B) should be taped back against the harness and left unconnected or removed from the main harness.
- 4. The main power input wire from sub kit 510011 is plugged into this connector. Connection descriptions are described on page 6.

Circuit Branch 4 - Rear Body Connections

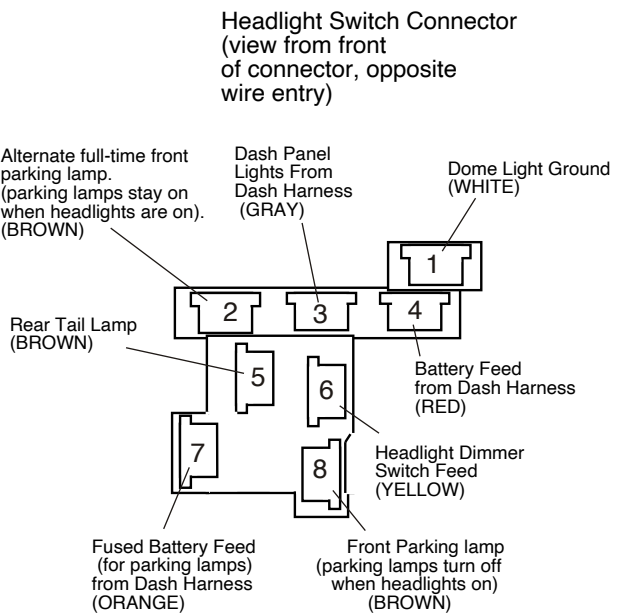
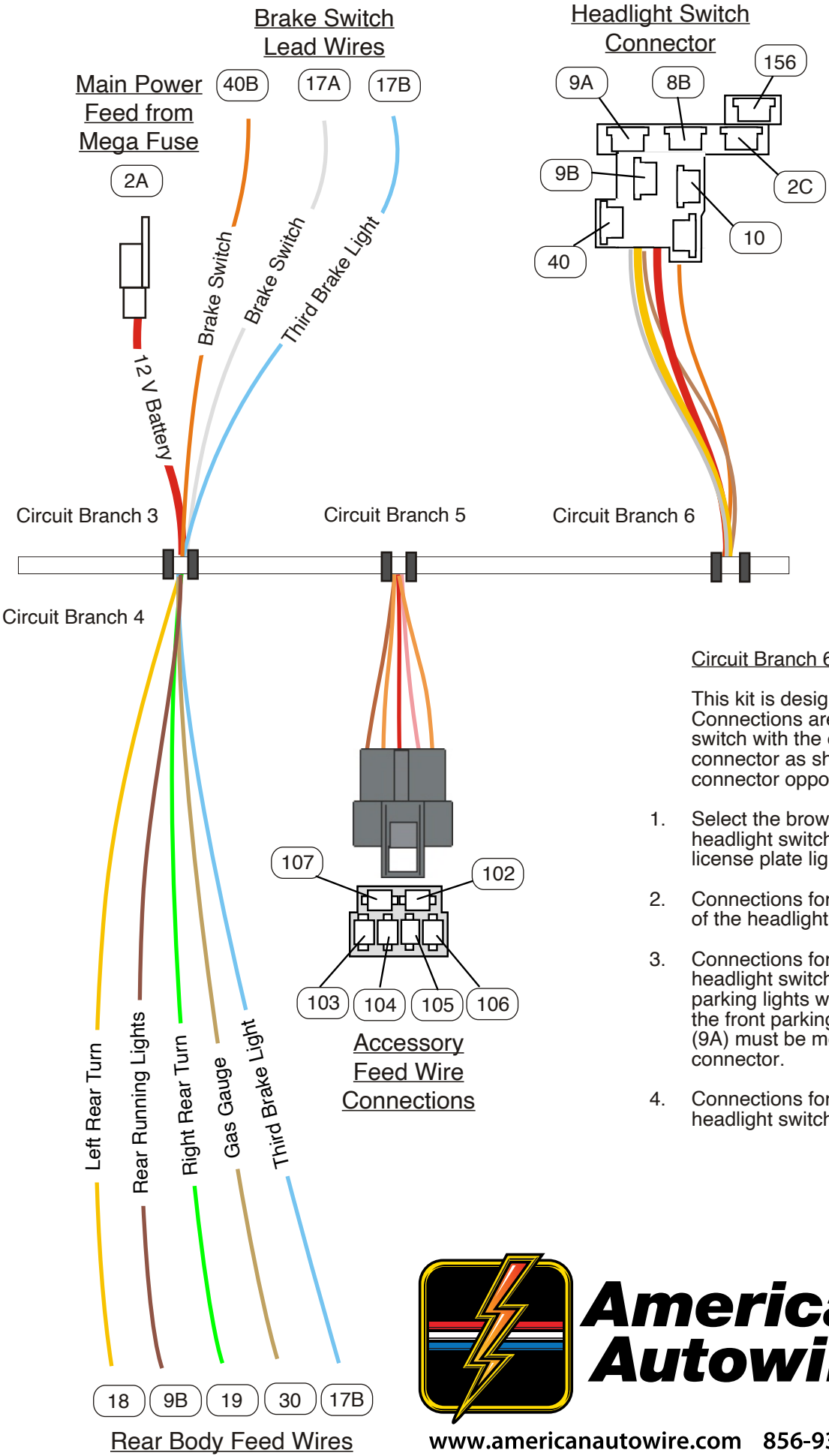
Route the rear body wires to the rear of the car and connect as follows:

- 1. Select the yellow Left Rear Turn wire (18) and connect it to the left rear directional lamp socket. If you are using a single tail light with an 1157 or dual filament bulb, this wire would be connected to the bright filament of the bulb.
- 2. Select the dark green Right Rear Turn wire (19) and connect it to the right rear directional lamp socket. If you are using a single tail light with an 1157 or dual filament bulb, this wire would be connected to the bright filament of the bulb.
- 3. Select the Rear Running Lights wire (9B) and connect it to the rear running lamp socket. If you are using a single tail light with an 1157 or dual filament bulb, this wire would be connected to the dim filament of each of the rear running lights. An in-line splice of this wire will be necessary to accommodate wiring of both of the rear running lights.
- 4. Select the light blue Third Brake Light wire (17B). If you are using a third brake light, route this wire to the third brake light brake switch. If you are not using a third brake light, this wire should be taped back against the harness and left unconnected
- 5. Select the tan Gas Gauge wire (30). Route this wire to your fuel tank and connect it to the terminal on the fuel tank sender unit.

Circuit Branch 5 - Accessory Feed Wire Connections

This kit provides 5 additional fused power circuits that can be connected through the included terminals and disconnect as follows:

wire #	Type	color	Printing	Function
102	Battery	Orange	12 volt battery fused	Lighter or Spare 12 volt battery fused power.
103	Ignition	Tan	Fuel Pump	Fuel pump power.
104	Battery	Orange	Power Seats	Power seats power.
105	Battery	Red	Power Locks	Power door locks power.
106	Ignition	Pink	Power windows	Power windows power.
107	Ignition	Brown	Ignition Sw Accy	Cruise or Spare 12 volt accessory fused power.



Circuit Branch 6 - Headlight Switch Connection Kit

This kit is designed to function with a GM style headlight switch. Connections are functionally the same with any other type of headlight switch with the exceptions noted below. Orient the headlight switch connector as shown in the diagram . You will be looking at the front of the connector opposite the wire entry end.

- 1. Select the brown Rear Running Lights wire (9B) from location 5 of the headlight switch connector. This wire is for the rear running lights and license plate lights.
- 2. Connections for the white Courtesy Light Ground wire (156) from location 1 of the headlight switch connector are described on page 2.
- 3. Connections for the brown Park Lights wire (9A) from location 2 of the headlight switch connector are described on page 2. In this setup the front parking lights will remain on when the headlights are turned on. If you want the front parking lights to go off when the headlights are turned on, this wire (9A) must be moved from location 2 to location 8 in the headlight switch connector.
- 4. Connections for the gray Dash Lights wire (8B) from location 3 of the headlight switch connector are described on page 4.



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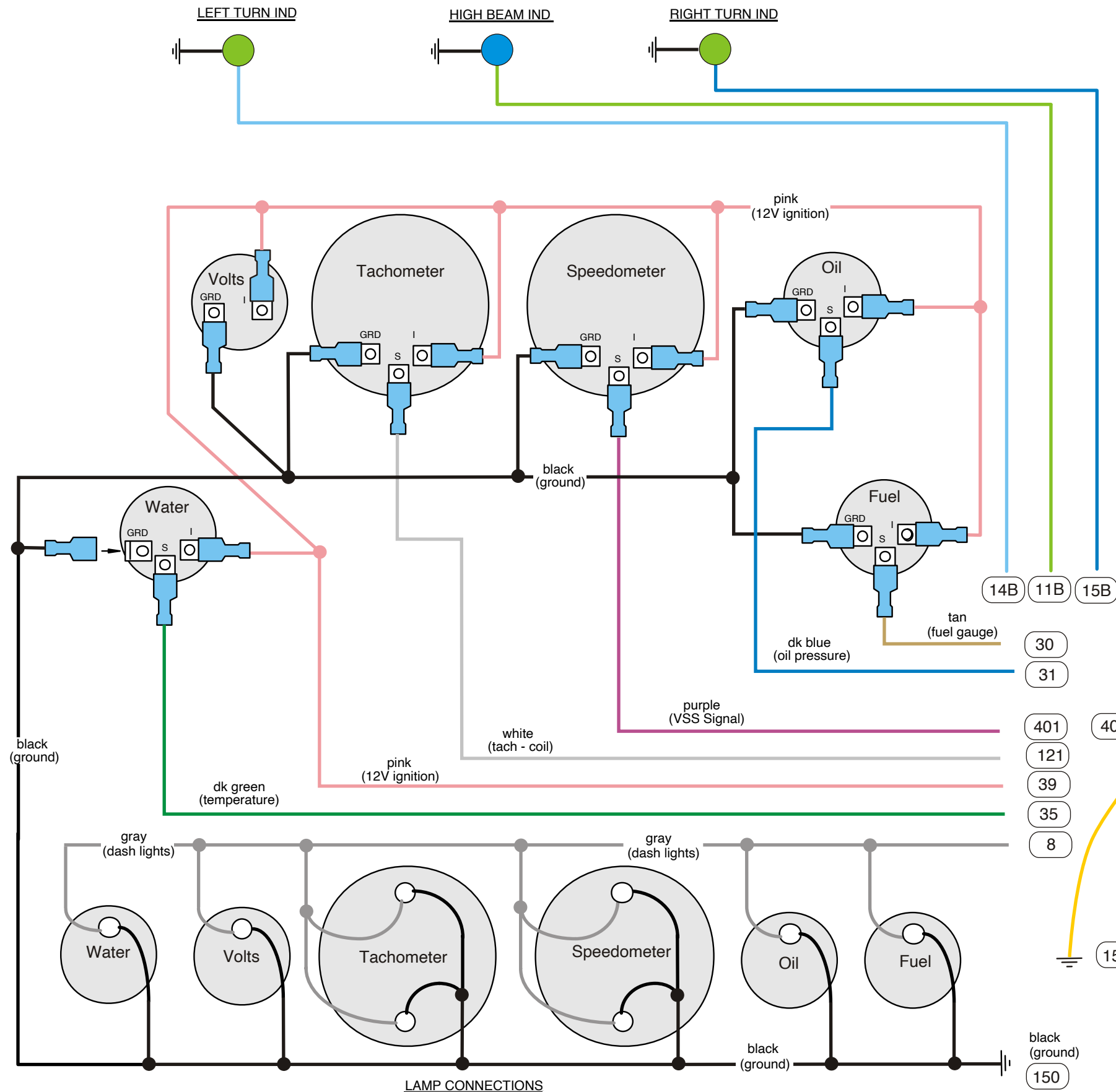
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DESCRIPTION:

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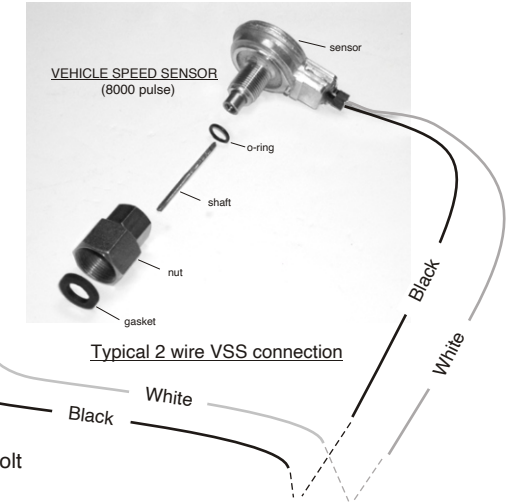
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TYPICAL BLADE TYPE GAUGE CONNECTIONS



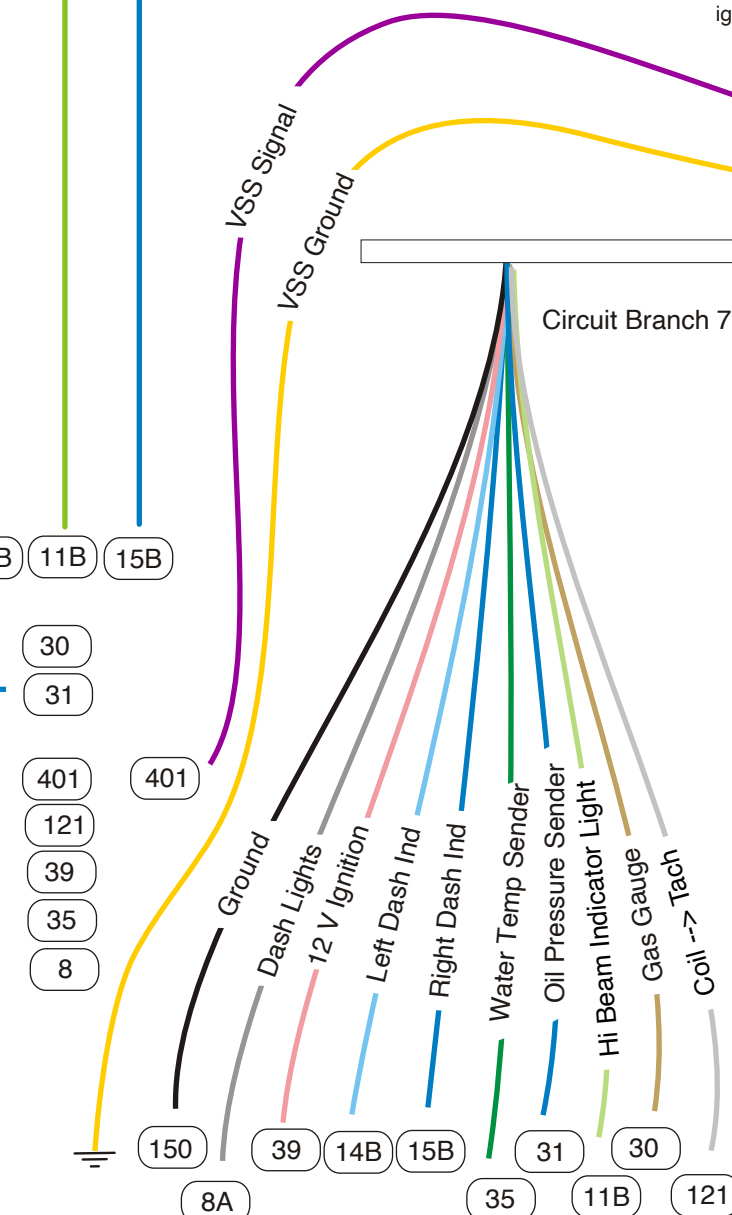
Typical 3 wire Autometer 5291 VSS connection

Note:
This VSS requires a lead wire from the red wire to a 12 volt ignition source. This wire is not included in the kit.



Typical 2 wire VSS connection

connect to 12 volt
ignition source



Circuit Branch 7 - Instrument Cluster Wiring

Shown is a typical installation with electric gauges and an electronic speedometer and tachometer. Mechanical speedometers with only require the light leads. The VSS lead wires are supplied separately in sub-kit 510011 and can be ignored for mechanical speedometers. Always check the manufacturers instructions for specific installation requirements.



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DESCRIPTION:

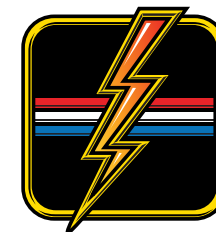
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Connect these lead wires as follows:

- ### Alternator and Starter Wiring.

-
- Wiring diagram for a 1965-1966 Chevrolet with a 12V battery. The diagram shows the battery connected to a busbar, which then branches out to various components. Key components include the alternator, neutral safety switch, typical ignition switch, starter solenoid, and a fuse block. The fuse block contains fuses for various circuits: 10A for Park/Light, 15A for Turn, 10A for Radio, 10A for Cruise, 10A for Wiper, 10A for Clock, 10A for Pumps, 10A for Brakes, 10A for Dashes, 10A for Fuel, 10A for AC/Heat, 10A for Fan, and 10A for Hazard Flasher. The diagram also shows the battery terminals and the starter solenoid terminals.



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Circuit Branch 8 - Ignition Switch Connections

These connections were covered on page 5 but will be included here for clarity:

- 1. Select the red 12 V Battery wire (2B) and connect it to the battery terminal on the ignition switch.
- 2. Select the pink Ignition Feed wire (3B) and connect it to the ignition terminal on the ignition switch.
- 3. Select the heavy brown Ignition SW Accessory wire (4B) and connect it to the accessory terminal on the ignition switch.

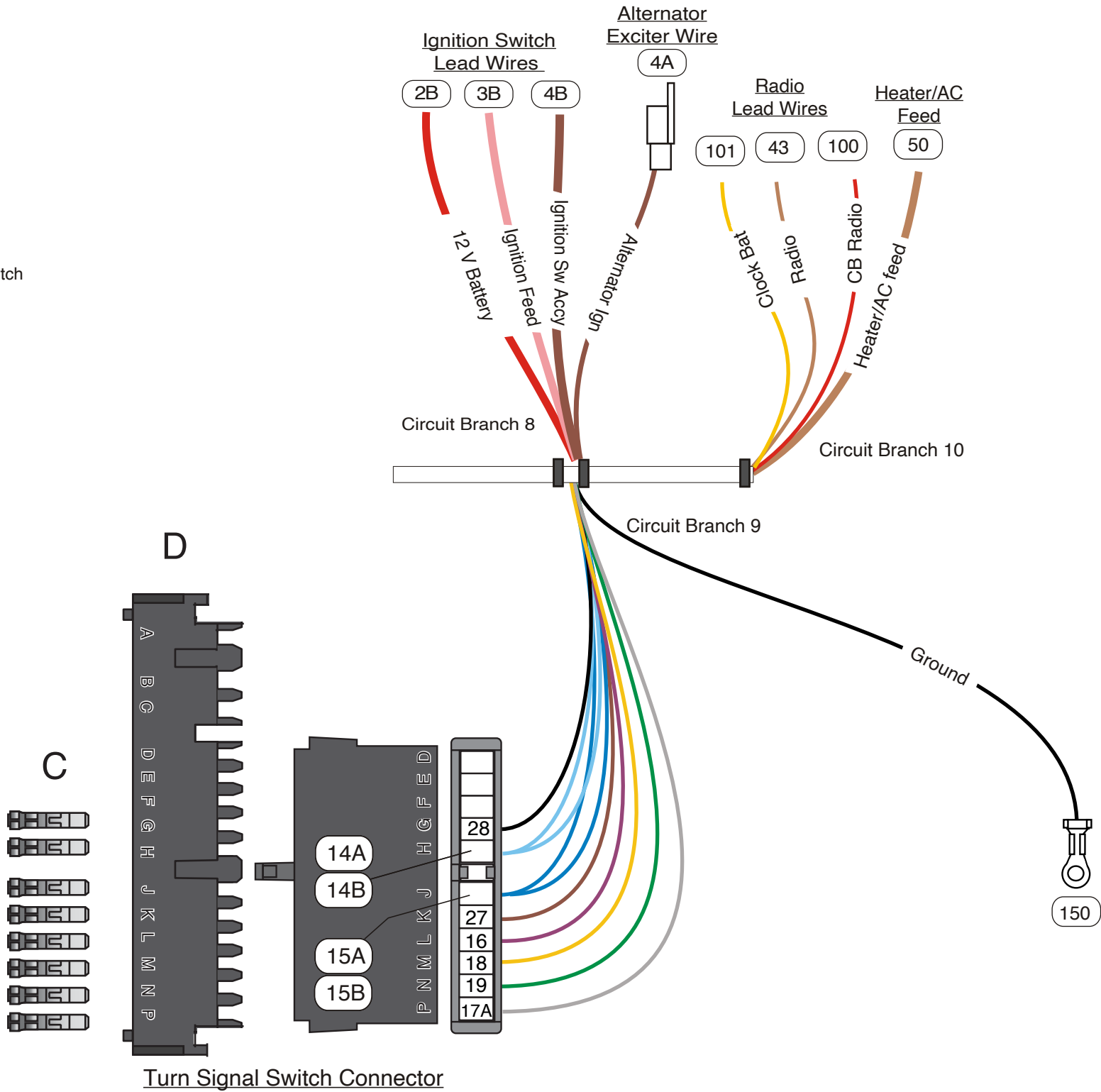
Circuit Branch 9 - Turn Signal Switch Connections

This kit is designed to function with a GM style turn signal switch. This connector mates to a 3 7/8 inch long plug used on GM columns from 1969-1974. It is also used on many aftermarket steering columns. From 1975 on the GM switch used a 4 1/4 inch connector. The connector is from the same family and uses the same terminals. By using the supplied mating connector D and terminals C, it is easy to adapt any GM column to the kit as the color codes and cavity locations for the turn signal switch wires are the same. Orient the turn signal switch connector as shown in the diagram . Notice the letters on the face of the connector. These correspond to the connector cavities. The function of each wire within the cavities is as follows:

wire #	cavity	color	Printing	Function
28	G	Black	Horn Relay Ground	Horn button ground to the horn relay trigger
14A&B	H	Light Blue	Left Front Turn	Feeds the left front turn lamp bulb bright filament and the left turn dash indicator lamp.
15A&B	J	Dark Blue	Right Front Turn	Feeds the right front turn lamp bulb bright filament and the right turn dash indicator lamp.
27	K	Brown	Turn Sw - Hazard	4 way hazard power feed wire from the Hazard flasher "L" terminal.
16	L	Purple	Turn Switch Feed	Turn signal power feed wire from the Turn Signal flasher "L" terminal.
18	M	Yellow	Left Rear Turn	Feeds the left rear turn and brake lamp bulb bright filament.
19	N	Dark Green	Right Rear Turn	Feeds the right rear turn and brake lamp bulb high bright filament..
17A	P	White	Brake Switch	Power feed wire from the output side of the brake switch.
150		Black	Ground	Connect to good chassis ground.

Circuit Branch 10 - Radio and Heater Connections

- 1. The tan Radio wire (43) is a 12 volt fused ignition wire that can be used for the main radio power.
- 2. The red CB Radio wire (100) is a 12 volt fused accessory wire that can be connected to a CB radio or any other radio function requiring an ignition or accessory power source.
- 3. The yellow Clock - Bat wire (101) is a 12 volt fused battery constant wire that can be connected to a clock radio or clock that requires a 12 volt battery power source.
- 4. The brown Heater/ AC feed wire (50) is connected to the heater or A/C harness ignition power terminal.





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