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
Step By Step Instructions to Wire Your Vehicle

- Disconnect the battery in your vehicle before starting
- Read the installation instructions and look at all diagrams before proceeding
- Setup a plan before you get started
- Check your kit to make sure everything is included
- Lay the harness out on the floor
- Plan the path to which way your wires will be routed
- Only remove the ties holding the bundles together
- Leave all labels on the wiring harness until you have completely installed your kit
- The fuse block must be mounted near the steering column under the dash (the wires may be too short if you mount the fuse panel in another location).
- Mount all electrical accessories and switches where they will be on the vehicle (so that the wires are trimmed to the correct length).
- You may need some optional accessories and wiring components (see the listing of optional accessories at the end of this instruction sheet).



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Grounding

Grounding Symbol ()

Ground wires are not included in this kit. Fiberglass body cars cannot use the body as a ground and must run individual ground wires from all components to the frame or engine. In most situations the ground wires must be added to connect the case of each component to the engine or chassis.

Heavy gauge battery cables and grounding straps must be used between the engine/body/frame and the negative battery terminal. The best place to attach the ground strap to the engine is on a starter motor bolt to make sure the starter gets adequate voltage.

All ground connections must be metal to metal connections that are free of dirt, rust, and paint.

Testing

Test for any problems that may occur upon installation completion with a 10 amp or small battery charger to ensure safety.

Proceed with the installation only after you have read and understand all of the above steps and guidelines.

Mounting Fuse Panel

The Fuse Panel must be mounted near the steering column. When mounting the fuse panel, use the two plastic spacers between the fuse panel and firewall or other mounting surface (this allows room for the wires that run behind the fuse panel). Use the $\frac{3}{4}$ " grommet supplied with the kit to protect the wires where they pass through the firewall. Use similar grommets (available separately) for any other wires that pass through any other panels in the vehicle.

Wiring Groups

The wires that are attached to the fuse panel are organized into groups based on where the wires are connected to the vehicle. Each of these wire groups are shown below along with drawings that show how to make the connections to your vehicle. In some cases there may be different drawings for each type of vehicle (i.e. GM, Ford, and Mopar). You may also need to reference a service manual for electrical drawings for other vehicles since this harness can be used with



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almost any vehicle that has the engine located in the front and the fuse panel mounted under the dash near the steering column.

Motor Group

Wire #14 White 16 Ga. (Alternator Exciter)

Originates from the fuse panel and connects to the alternator. See the Alternator diagrams shown below.

Wire #15 Red 10 Ga. (Alternator Battery)

Originates from the fuse panel and connects to the battery post on the alternator.

Wire #16 Red 10 Ga. (Starter Solenoid)

Originates from the fuse panel and connects to the starter battery lug.

Note: Crimp the gray fusible link on the end of this wire where it attaches to the large post on the starter.

Wire #19 Purple 12 Ga. (Neutral Safety)

Originates from the Ignition switch and connects to the neutral safety switch and then connect to the start lug on the Starter. See the ignition switch drawings in the Column Group – shown below.

Wire #20 Pink 14 Ga. (Coil)

Originates from the fuse panel and connects to the positive side of the coil.

Wire #21 Green 18 Ga. (Water Temperature Sender)

Originates from the temp gauge and connects to the temperature sending unit.

Wire #22 Lt. Blue 18 Ga. (Oil Pressure Sender)

Originates from the oil gauge and connects to the oil pressure sending unit.

Wire #23 Purple 18 Ga. (Tachometer)

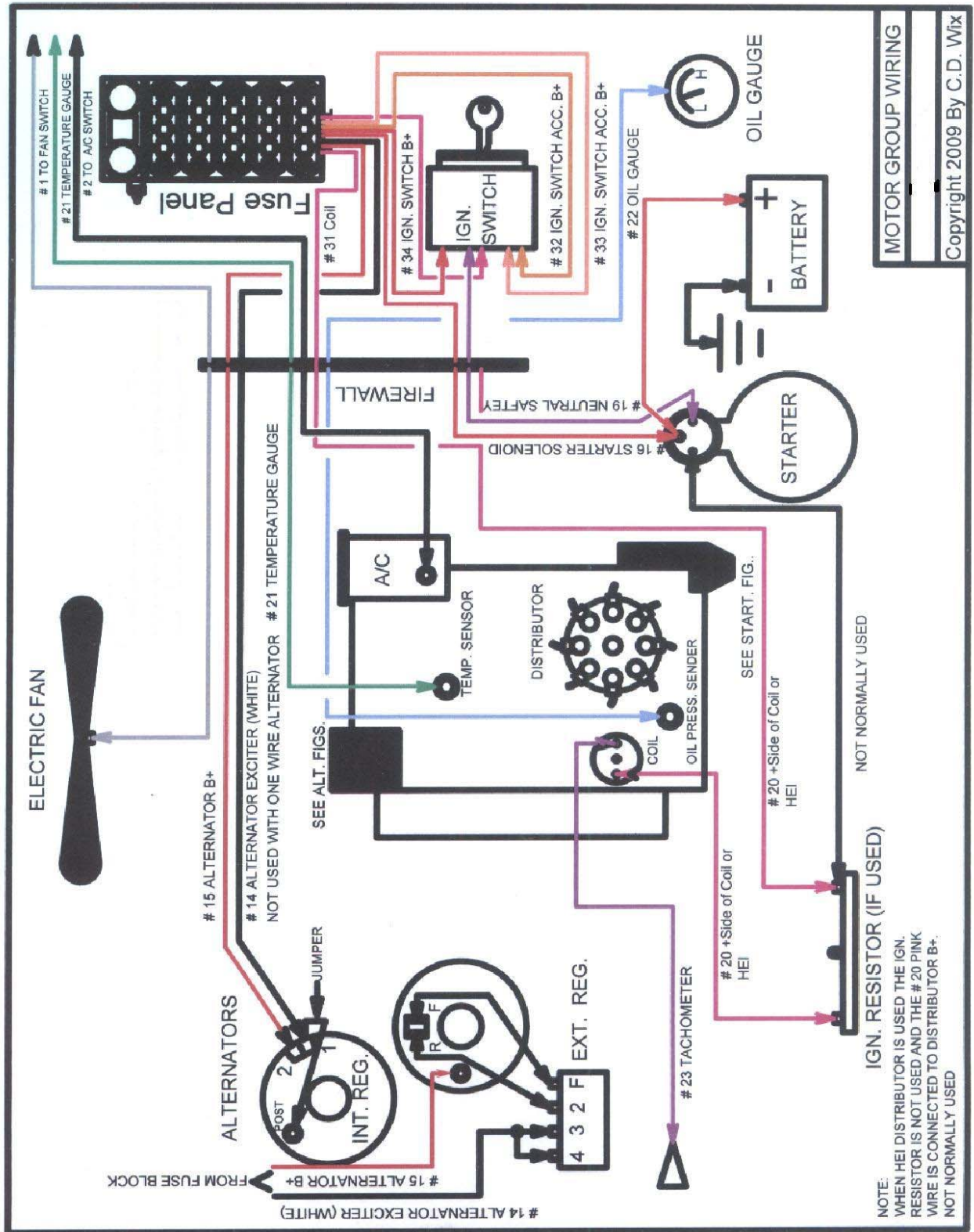
Originates from the tachometer gauge and connects to negative side of the coil.

Wire #54 Red 18 Ga. (Electric Choke)

Originates from the fuse panel and connects to the positive side of the electric choke.

Wire #2 Black 14 Ga. (A/C Heat)

Originates from the fuse panel and connects to the thermostat switch power.

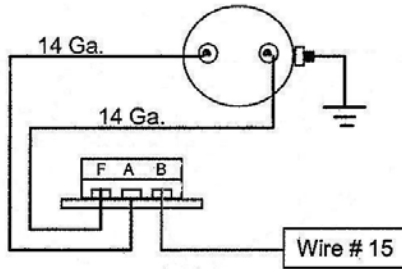


MOTOR GROUP WIRING
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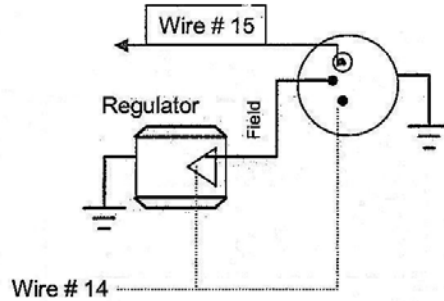


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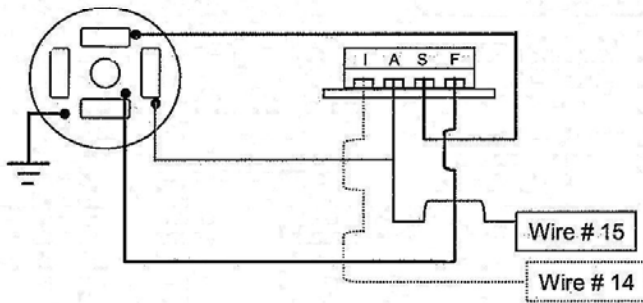
Alternators



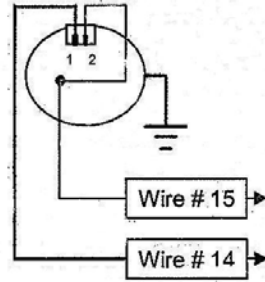
— Generator Charging System —



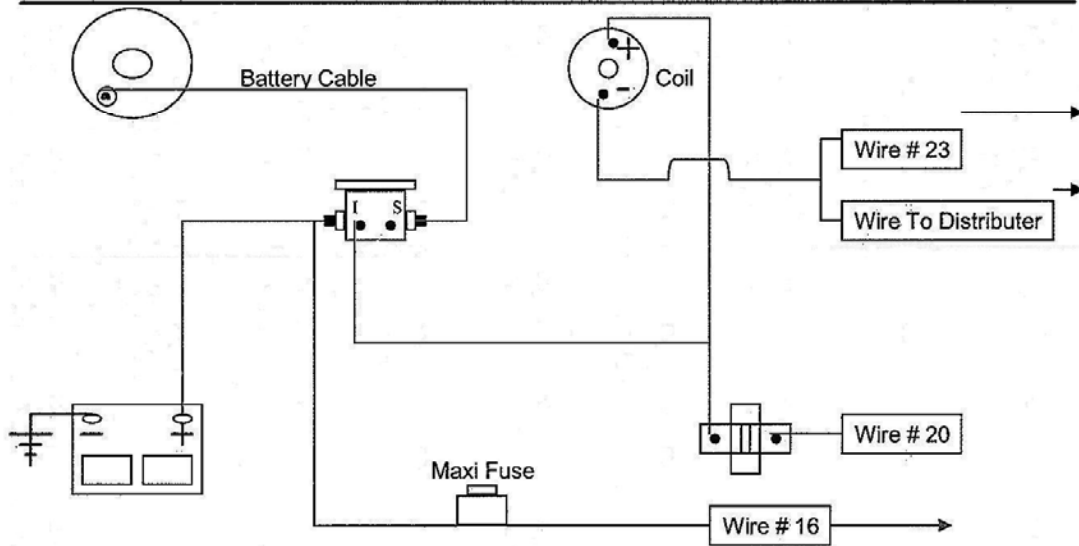
— Mobar Alternator —



— Ford Alternator —



— GM Alternator —

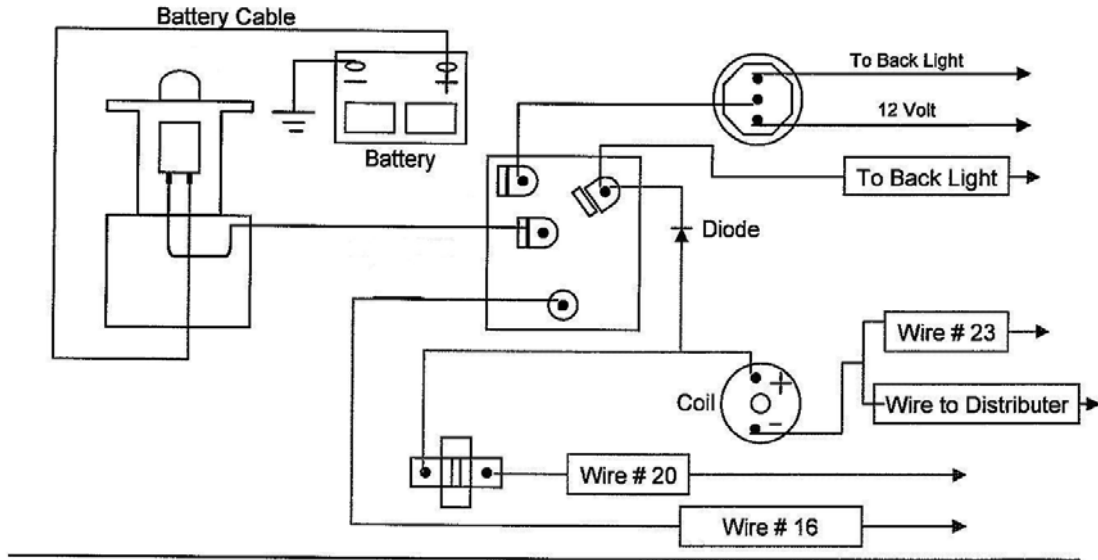


— Ford Ignition System —

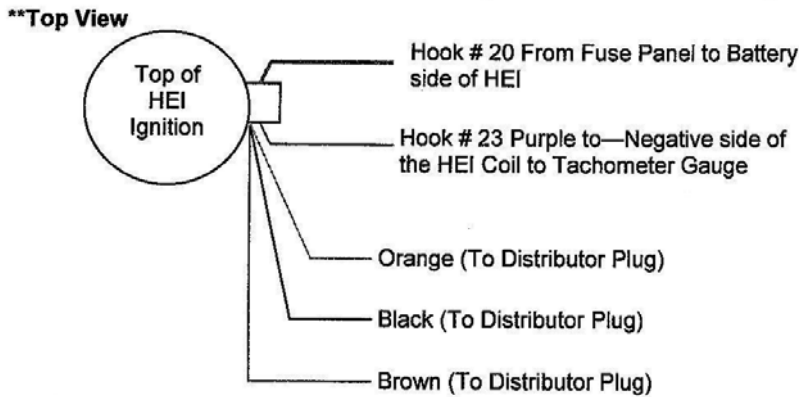


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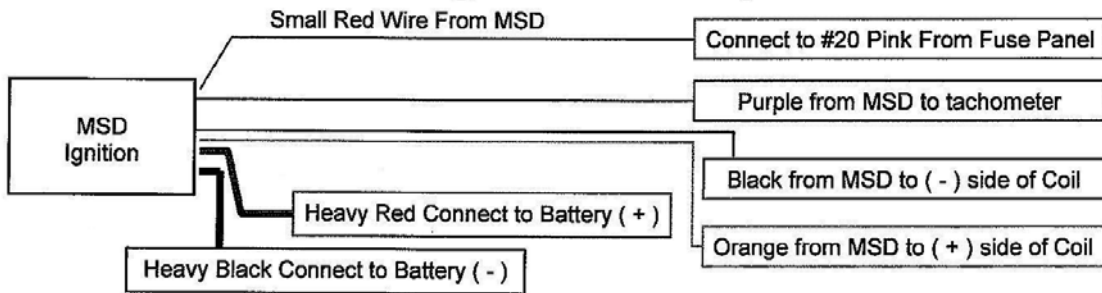
— Mopar Ignition System —



— G.M. HEI Ignition Hook Up —



— MSD Ignition Hook Up —



Headlight Group H-1

27 Brown (Parking Lights)

Originates from the headlight switch and connects to the parking lights

26 Lt. Blue (Left Front Turn)

Originates from the turn signal plug and connects to the left front turn signal light

25 Blue (Right Front Turn)

Originates from the turn signal plug and connects to the right front turn signal

24 Green (Horn)

Originates from the horn relay on the fuse panel and connects to the horn.
(Relay is built into the fuse panel)

9 Tan (Low Beam)

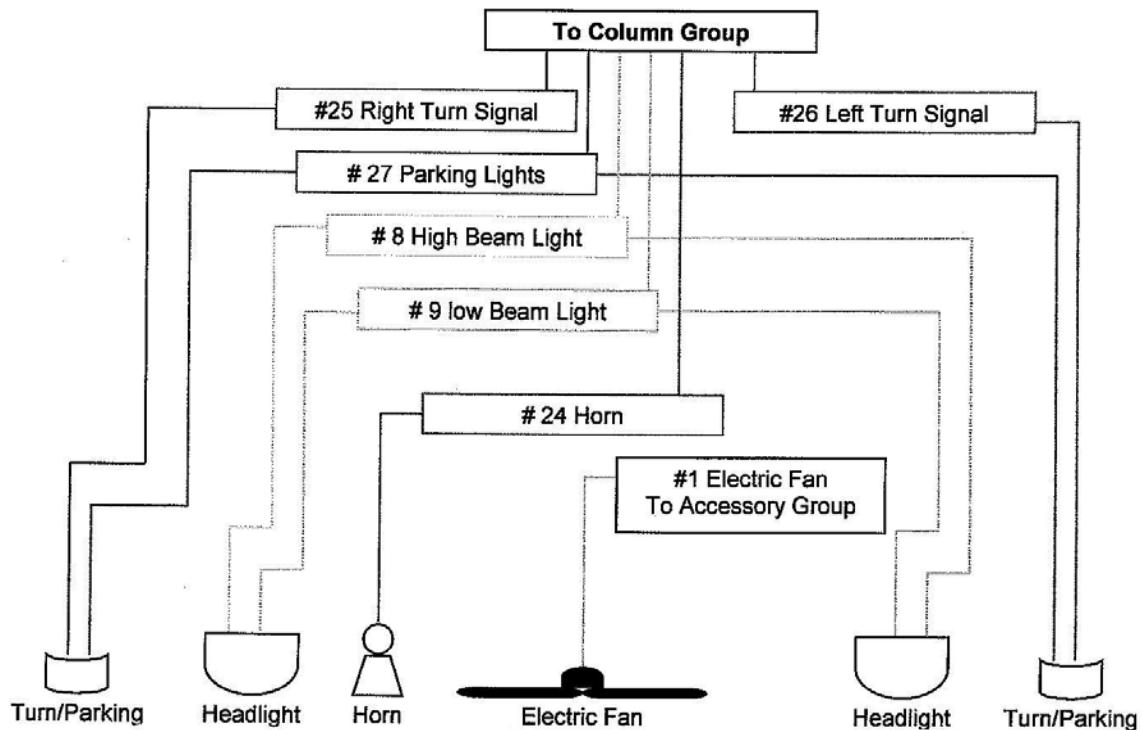
Originates from the dimmer switch and connects to the left and right low beam headlights

8 Lt. Green (High Beam)

Originates from the dimmer switch and connects to the left and right high beam headlights

1 Gray (Electric Fan)

Originates from the accessory switch group and connects to the fan power wire



Electric Fan

#1 Gray (Electric Fan)

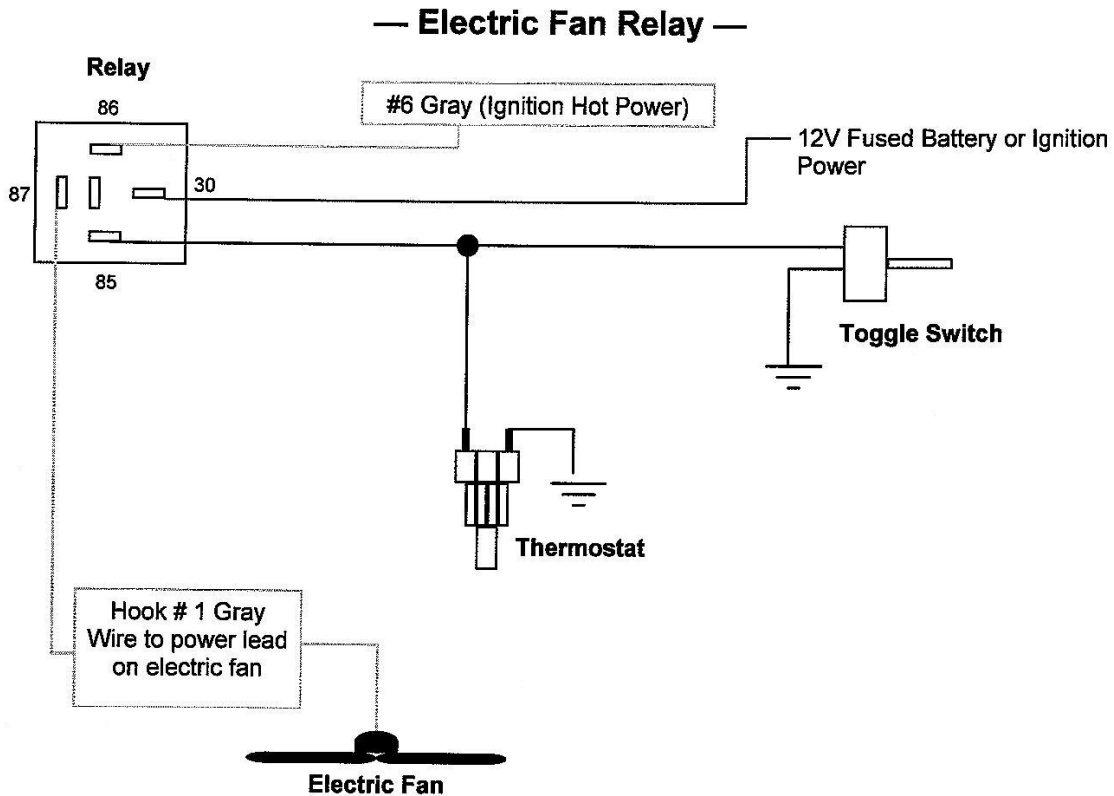
Originates from the fan switch or relay and connects to the electric fan.
(This wire is located in the Accessory group switches)

6 Gray (Electric Fan)

Originates from the fuse panel and powers the trigger wire on the electric fan relay
(This wire is located in the Accessory switches group Battery Positive)

This wiring harness does not come with an electric fan relay, but it is available as an optional accessory.

- Manual Single Fan Harness & Relay Kit 555-10559
- 180° Controlled Fan Harness & Relay Kit 555-10560
- 200° Controlled Fan Harness & Relay Kit 555-10561



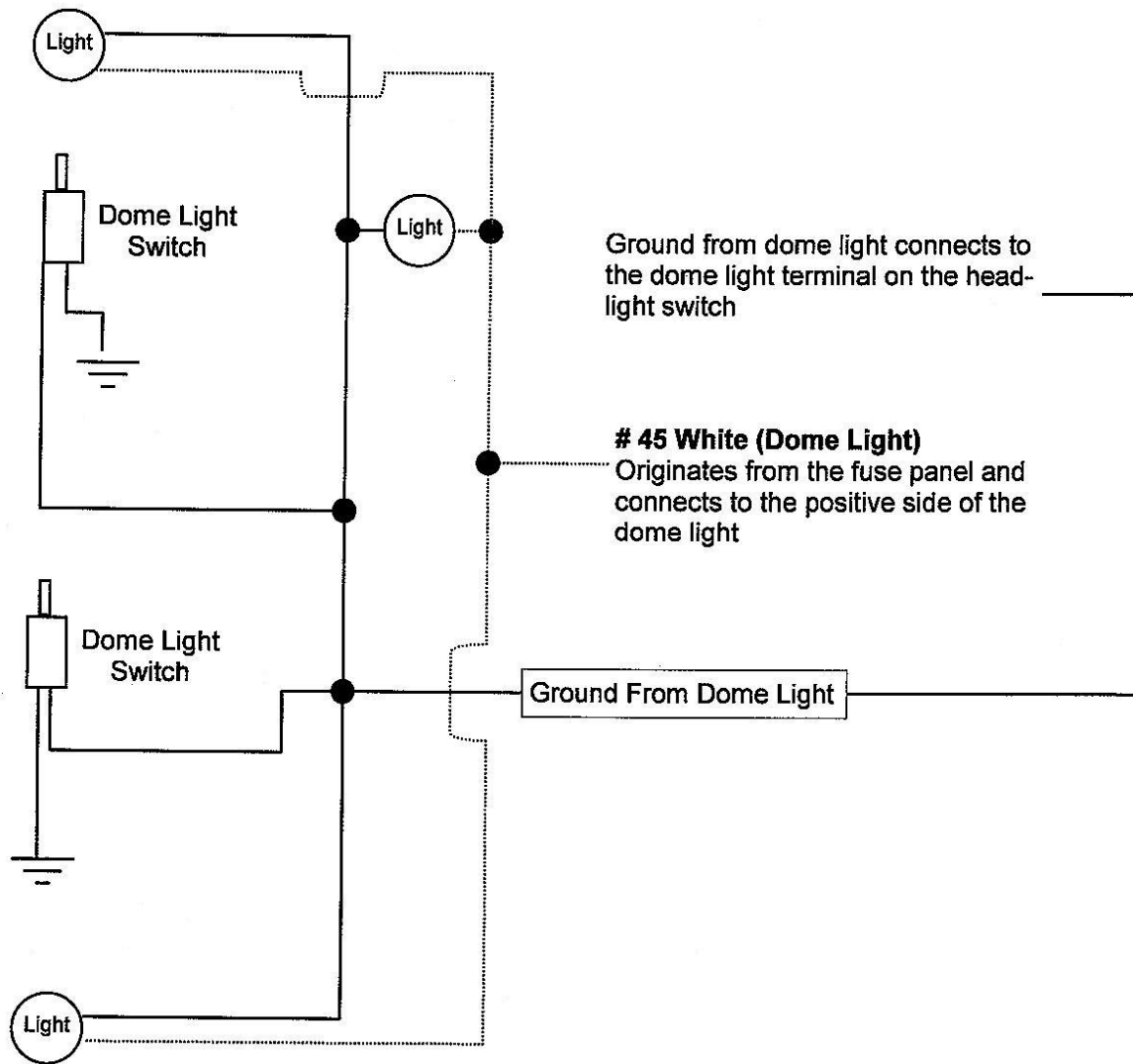
Dome Light

45 White (Dome Light)

Originates from the fuse panel and hooks to the positive side of all interior lighting.

Run a ground wire on the negative side of all interior lighting to all door jam switches as well as the headlight switch.

Note: All door jam switches and headlight switch must be grounded



Accessory Group Switches

Wire # 2 Black 14 Ga. (A/C Heat)
Connect to thermostat switch power

Wire # 1 Gray 14 Ga. (Electric Fan)
Originates from the relay or switch and connects to electric fan power lead.

Wire # 56 Green (Back-Up Lights)
Connect to back-up light switch on shifter or transmission

Accessory Group B+

Wire # 3 Tan 14 Ga. (Cigarette Lighter Power)
Originates from the and connect to cigarette lighter battery positive terminal on the back of the lighter.

Wire # 4 Black 14 Ga. (A/C Heater Switch Power)
Originates from the Fuse Panel and connect to the heater fan switch battery positive.

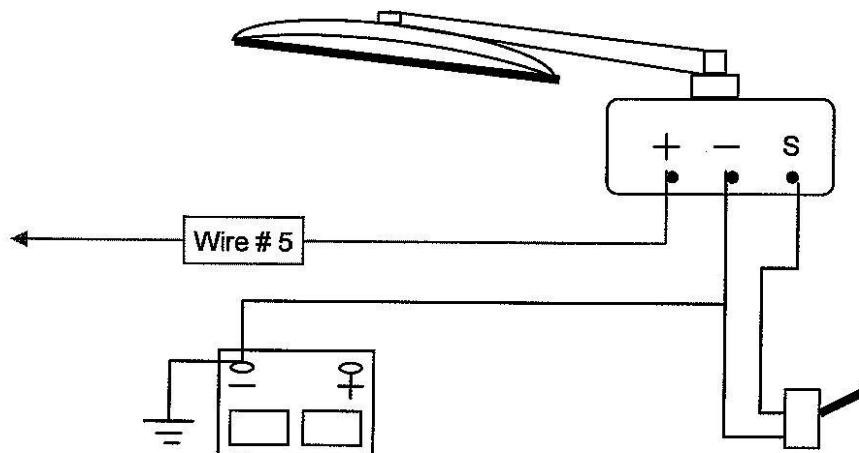
Wire # 5 Blue 16 Ga. (Wiper Switch Power)
Originates from the fuse panel and connect to windshield wiper switch battery terminal.

Wire #57 Pink Ga. (Cruise Control)

Wire #6 Gray 14 Ga. (Cooling Fan Switch Power)

Wire #58 Green 18 Ga. (Back-Up Light Switch Power)

— Wiper Switch —





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Instrument Group

Wire # 35 Red 16 Ga. (Power for Gauges)

Originates from the fuse panel and connects to the positive side of each gauge

Wire # 30 Red 14 Ga. (Power for Gauge Lights)

Originates from the headlight switch and connects to the positive side of all dash lights

Wire # 21 Green 18 Ga. (Water Temperature Sender)

Originates from the temp gauge and connects to the temperature sending unit

Wire # 22 Lt. Blue 18 Ga. (Oil Pressure Sender)

Originates from the oil gauge and connects to the oil pressure sending unit

Wire # 23 Purple 18 Ga. (Tachometer)

Originates from the tachometer gauge and connects to tachometer

Wire # 53 Black 18 Ga. (Relay Ground for Horn)

Originates from the relay on fuse panel and connects to the horn button

Wire # 36 Green 18 Ga. (High Beam Indicator)

Originates from the High Beam wire # 8 and connects to the high beam indicator light.

Wire # 37 Lt. Blue/Black 18 Ga. (Left Turn Indicator)

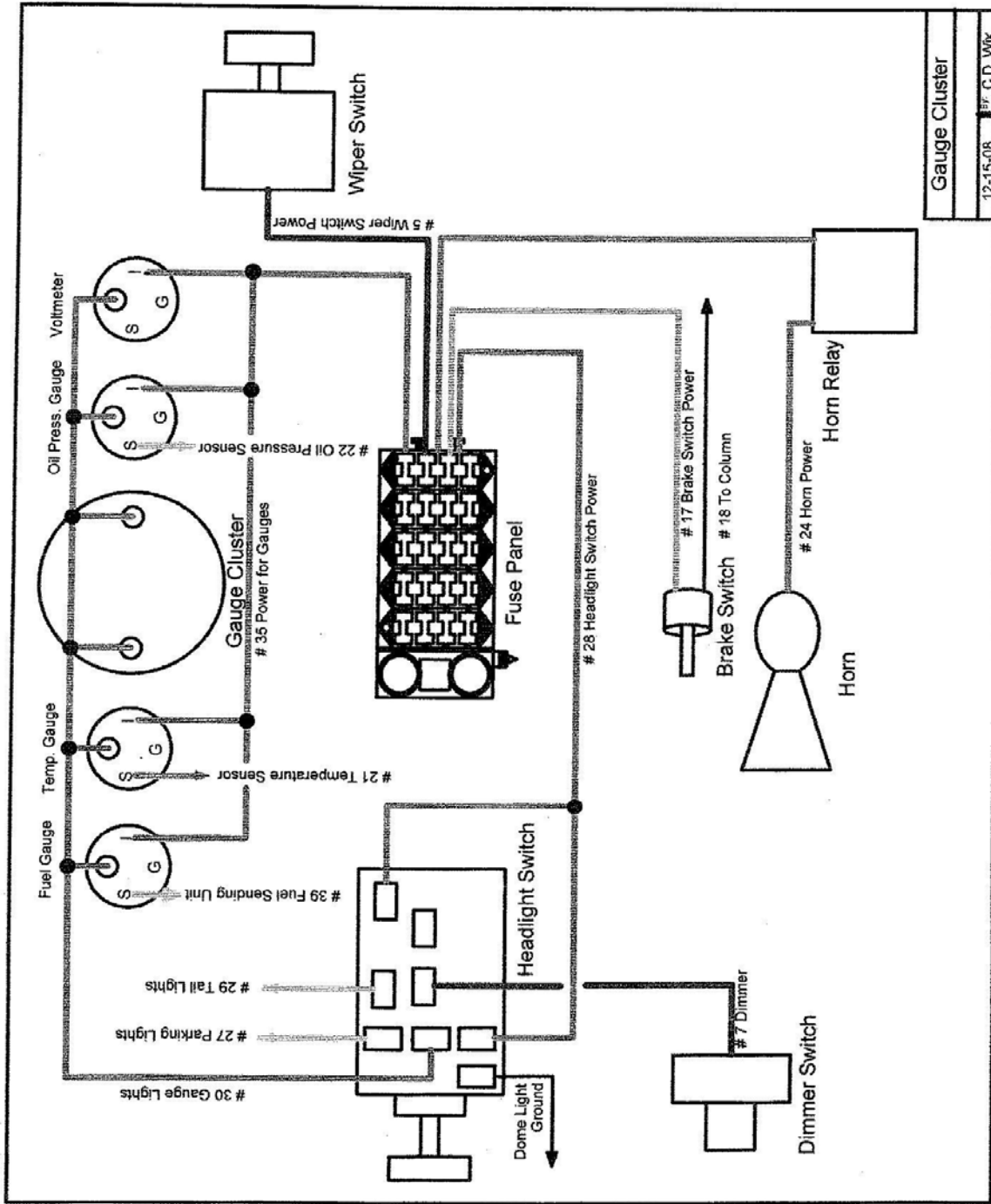
Originates from the Column Group and connects to the left turn indicator light on the dash

Wire # 38 Blue 18 Ga. (Right Turn Indicator)

Originates from the Column Group and connects to the right turn indicator light on the dash

Note: Be sure to ground all gauges to a good clean ground

See Instrument Diagram shown below





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Column Group

31 Pink (Coil)

Originates from the fuse panel and connects to the to the ignition switch terminal marked "IGN"

33 Orange (Ignition Switch Accessory)

Originates from the fuse panel and connects to the ignition switch terminal marked "ACC"

34 Red (Ignition Power)

Originates from the fuse panel and connects to the ignition switch terminal marked "BAT"

19 Purple (Neutral Safety)

Originates from the ignition switch and connects to the neutral safety switch.

53 Black (Horn Ground)

Originates from the horn relay located on the fuse panel and connects to the "G" terminal on the GM turn signal plug

52 Purple (Turn Flasher Power)

Originates from the turn flasher located on the fuse panel and connects to the "L" terminal on the GM turn signal plug

51 Brown (Emergency Flasher Power)

Originates from the turn flasher located on the fuse panel and connects to the "K" terminal on the GM turn signal plug

49 Yellow (Left Rear Turn Signal)

Originates from the "M" terminal of the GM turn signal plug and connects to the left rear turn signal

48 Lt. Green (Right Rear Turn Signal)

Originates from the "N" terminal of the GM turn signal plug and connects to the right rear turn signal

26 Lt. Blue (Left Front Turn Signal)

Originates from the "H" terminal of the GM turn signal plug and connects to the left front turn signal

25 Blue (Right Front Turn Signal)

Originates from the "J" terminal of the GM turn signal plug and connects to the right front turn signal

18 White (Brake Switch to Turn Switch)

Originates from the brake switch and connects to the turn signal switch terminal "P"

7 Blue (Dimmer Switch)

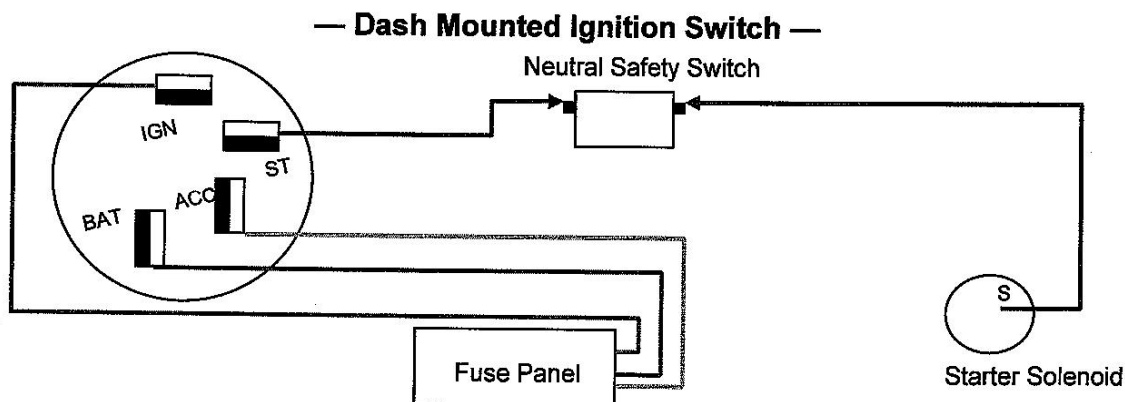
Originates from the headlight switch dimmer power and connects to the dimmer switch

8 Lt. Green (High Beam)

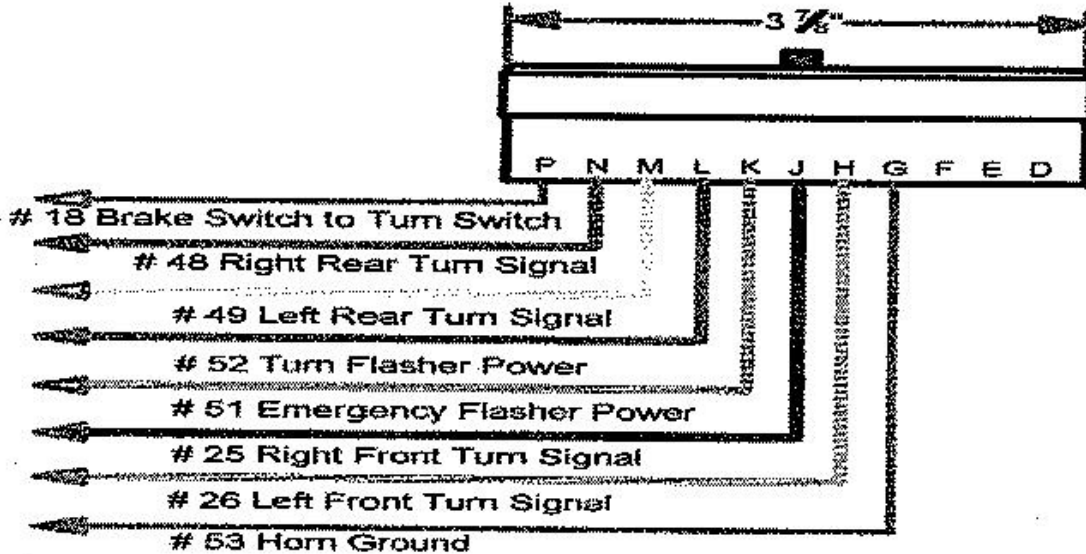
Originates from the dimmer switch high beams to the high beams on the headlights

#9 Tan (Low Beam)

Originates from the dimmer switch low beams to the low beams on the headlights



Early Model



Late Model turn signal connector (about 4-1/4" wide) is available as an optional accessory part. The late model turn signal connector is wired exactly the same as the early model.

Ford Column/Turn Signal Group

White / Blue	Right Front Turn	Black / Green	Ignition Accessory
White / Red	Emergency Flasher	Black	Ignition Coil
Green / White	Left Front Turn	Brown / Purple	Starter
Green/Orange	Left Rear Turn	Yellow	Ignition Power
Orange / Blue	Right Rear Turn		
Green	Brake Light		
Blue	Power for turn signals		

Mopar Column/Turn Signal Group

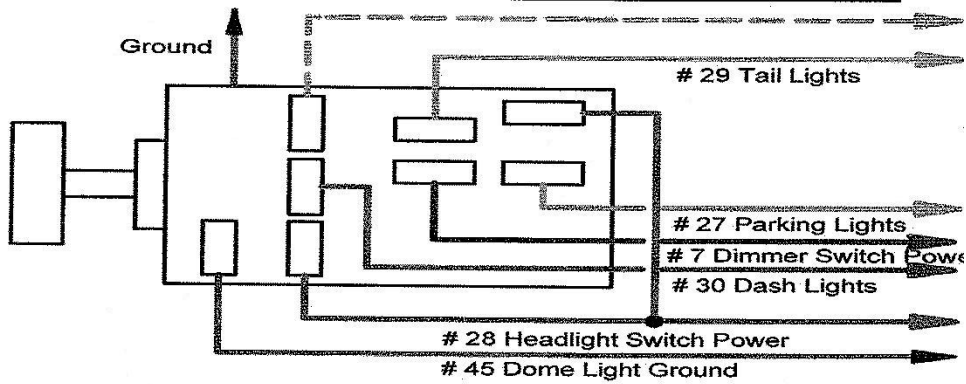
Tan	Right Front Turn	Blue	Ignition Accessory
Pink	Emergency Flasher	Brown	Ignition Coil
Green	Left Front Turn	Yellow	Starter
Green	Left Rear Turn	Red	Ignition Power
Brown	Right Rear Turn		
White	Brake Light		
Red	Power for turn signals		

Headlight Group H-2

- # 7 Blue (Dimmer Switch)
- # 27 Brown (Front Parking Lights)
- # 29 Brown (Tail Lights)
- #28 Red (Head Light Switch Power)
- # 30 Red (Power For Gauge Lights)

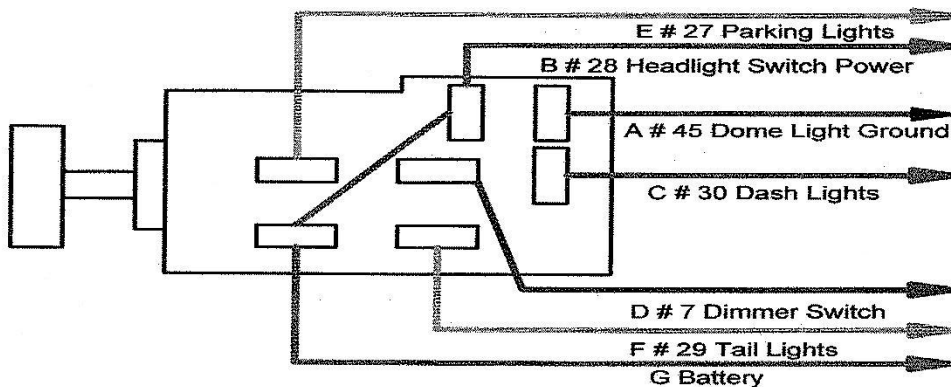
Connect each wire to the proper terminal on the headlight switch (see the drawing shown below)

Headlight Switch H-2 Group



G.M. Headlight Switch

Note: On late G.M. style headlight switch the parking light terminal wire # 27 is connected also. Has been omitted in this case. Hook wire # 27 to the dotted line as in the drawing.



Ford Headlight Switch



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Radio Group

41 Red (Radio Power)

Speaker Wires and power antenna wires are not included with this wiring harness.

Power Door D-1 Group

10 Yellow (Right Door Lock)

Originates from fuse panel and connects to power wire on right power door locks

11 Yellow (Right Power Window)

Originates from fuse panel and connects to power wire on right power window switch

Power Door D-2 Group

12 Yellow (Left Door Lock)

Originates from the fuse panel and connects to the power wire on the left power door locks

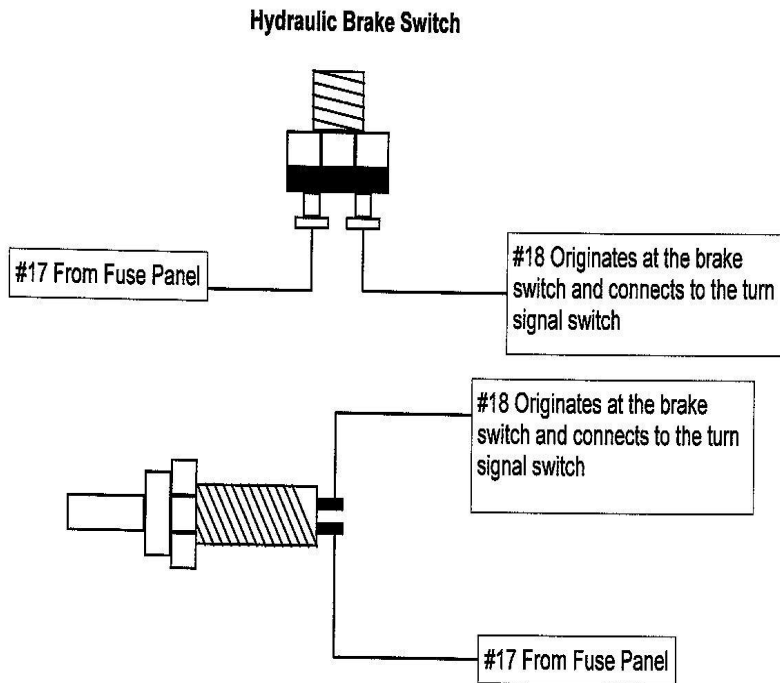
13 Yellow (Left Power Window)

Originates from the fuse panel and connects to power wire on the left power window switch

Brake Switch Group

17 Orange (Brake power)
Connect to battery side of brake switch

18 White (Brake Switch to Turn Switch)
Originates from the brake light switch and hooks up to turn signal switch





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Tail Group

#29 Brown (Tail Light)

Originates from the headlight switch and connects to the tail lights and also the license plate light.

#48 Green (Right Rear Turn Signal)

Originates from the turn signal switch and connects to the right rear turn lamp.

#49 Yellow (Left Rear Turn Signal)

Originates from the turn signal switch and connects to the left rear turn lamp.

Note: On most applications, the brake lights and turn signal wires are the same filament. In this situation you only need to hook up wires # 48 & # 49 the brake lights will work through the turn signal switch on the column

#55 Orange (Third Brake Light)

Originates from the brake light wire #18 and connects to the third brake light ONLY

56 Green (Back up Lights)

Originates from the back up light switch and connects to the rear back up lights

39 Pink (Fuel Sending Unit)

Originates from the Fuel sender and connects to the fuel gauge "S" terminal.

47 Yellow (Electric Fuel Pump Power)

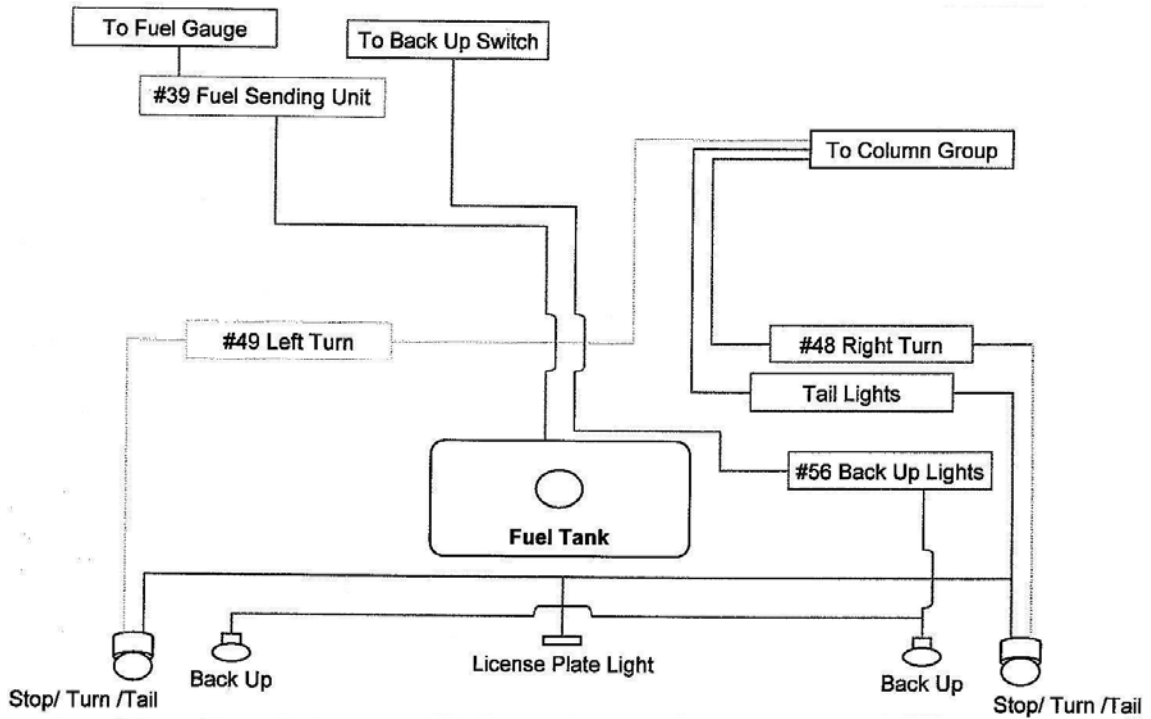
Originates from the fuse panel and connects to the fuel pump.

Note: You may need a relay for the fuel pump (available separately part # 555-10564). Check the instruction sheet for your electric fuel pump to see if a relay is required.

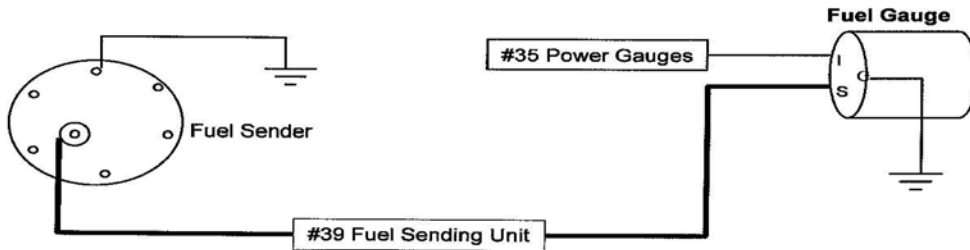
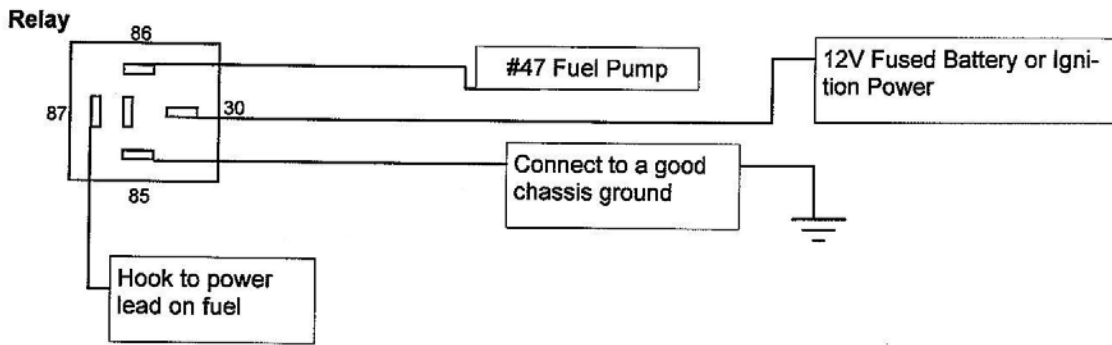
46 Green (Trunk Light Power)

Originates from the fuse pane and connects to the positive side of the trunk light.

Note: Make sure fuel tank and all lights are grounded to a good clean ground



— Fuel Pump Relay —





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Optional Accessories

Headlight Switch & Pigtail	555-11110K
Windshield Wiper/Washer Switch	555-11115
Ignition Switch w/ Keys	555-11100
Headlight Dimmer Switch	555-11125
GM HEI Power & Tach Pigtails	555-10552
Push Button Switch	555-10310
Door Jamb Switch	555-11121
Hydraulic Brake Light Switch Kit	555-63070K1
Master Disconnect Switch	555-10305
Ground Strap – 13"	555-10295
Ground Strap – 18"	555-10296
Ground Strap – 24"	555-10297
Fuel Pump Relay & Harness	555-10564
Manual Single Fan Relay & Harness	555-10559
Temp-Controlled Fan Relay & Harness 180°	555-10560
Temp-Controlled Fan Relay & Harness 195°	555-10560
Weatherpack Starter Kit	555-10750
Unsealed Connector Kit	555-10900
Crimp Connector Set	555-10705 or 555-10700
Heat Shrink Tubing Kit	555-10630
Convuluted Tubing Kit	555-10665
Flexbraid Wire Cover Kit	555-10658
Grommet Assortment Kit	555-10360
Fuse Assortment	555-W5368
LED Indicator Lamp – Red - 1/8" Bulb	555-11050
LED Indicator Lamp – Blue – 1/8" Bulb	555-11051
LED Indicator Lamp – Amber – 1/8" Bulb	555-11052
LED Indicator Lamp – Green – 1/8" Bulb	555-11053
LED Indicator Lamp – Red – 5/16" Bulb	555-11060
LED Indicator Lamp – Blue – 5/16" Bulb	555-11061
LED Indicator Lamp – Amber – 5/16" Bulb	555-11062
LED Indicator Lamp – Green – 5/16" Bulb	555-11063
LED Indicator Lamp – Red – 1/2" Bulb	555-11070
LED Indicator Lamp – Blue – 1/2" Bulb	555-11071
LED Indicator Lamp – Amber – 1/2" Bulb	555-11072
LED Indicator Lamp – Green – 1/2" Bulb	555-11073
Self Fusing Silicon Tape	555-75050 or 555-75051
Wire Crimping Tool	555-80575 or 555-80566
Cut and Pull Wire Stripper Tool	555-80573
Convuluted Tubing Installation Tools	555-10669
Digital 5-Gauge Panel	555-41660 through 555-41623
Digital 6-Gauge Panel w/ Tachometer	555-41625 through 555-41628



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Fuse Chart

<u>Function</u>	<u>Amp Fuse</u>
Hazard	25
Horn	20
Dome Light	10
Cigarette Lighter	20
Fuel Pump	25
Wipers	15
Gauges	20
Electric Fan	25
Power Door Locks	20
Stop Lights	20
Headlights	25
Coil	30
A/C Heat	30
Power Windows	30
Turn Signals	15
Radio	10

Use only the recommended fuse size in each circuit.



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Wire Functions

Wire	Function
1	Switched Wire
2	Switched Wire
3	Constant Hot Wire
4	Ignition Hot Wire
5	Ignition Hot Wire
6	Ignition Hot Wire
7	Headlight Switch Power
8	Headlight Switch Power
9	Headlight Switch Power
10	Ignition Hot Wire
11	Constant Hot Wire
12	Ignition Hot Wire
13	Constant Hot Wire
14	Ignition Hot Wire (Not Fused)
15	Constant Hot Wire (Not Fused)
16	Constant Hot Wire (Not Fused)
17	Constant Hot Wire
18	Switched Wire
19	Switched Wire
20	Ignition Hot Wire
21	Sending Unit Wire
22	Sending Unit Wire
23	Sending Unit Wire
24	Constant Hot Wire
25	Switched Wire
26	Switched Wire
27	Headlight Switch Power
28	Headlight Switch Power
29	Headlight Switch Power
30	Headlight Switch Power

Wire	Function
31	Ignition Hot Wire
32	Ignition Hot Wire (Not Fused)
33	Ignition Hot Wire (Not Fused)
34	Constant Hot Wire (Not Fused)
35	Ignition Hot Wire
36	Indicator
37	Indicator
38	Indicator
39	Sending Unit Wire
41	Ignition Hot Wire
45	Constant Hot Wire
46	Constant Hot Wire
47	Ignition Hot Wire
48	Switched Wire
49	Switched Wire
51	Constant Hot Wire
52	Ignition Hot Wire
53	Ground
54	Ignition Hot Wire
55	Switched Wire
56	Switched Wire
57	Ignition Hot Wire
58	Ignition Hot Wire