

# SPECTER OFF-ROAD

SOR.COM

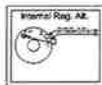
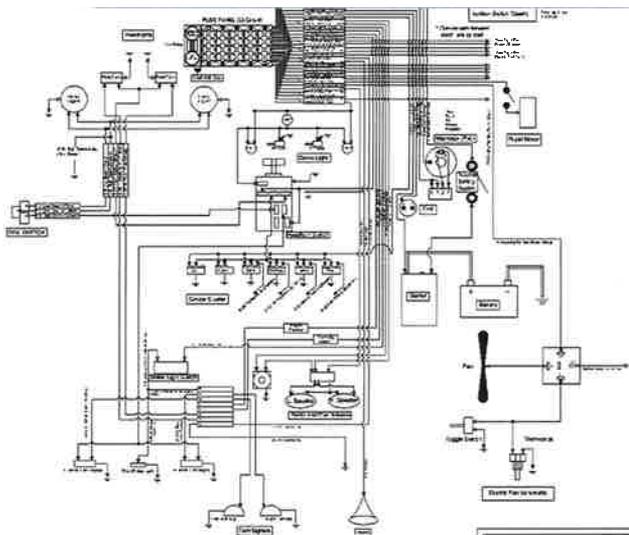


Figure 1



Figure 2

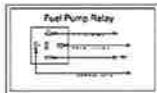
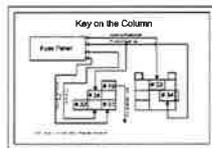


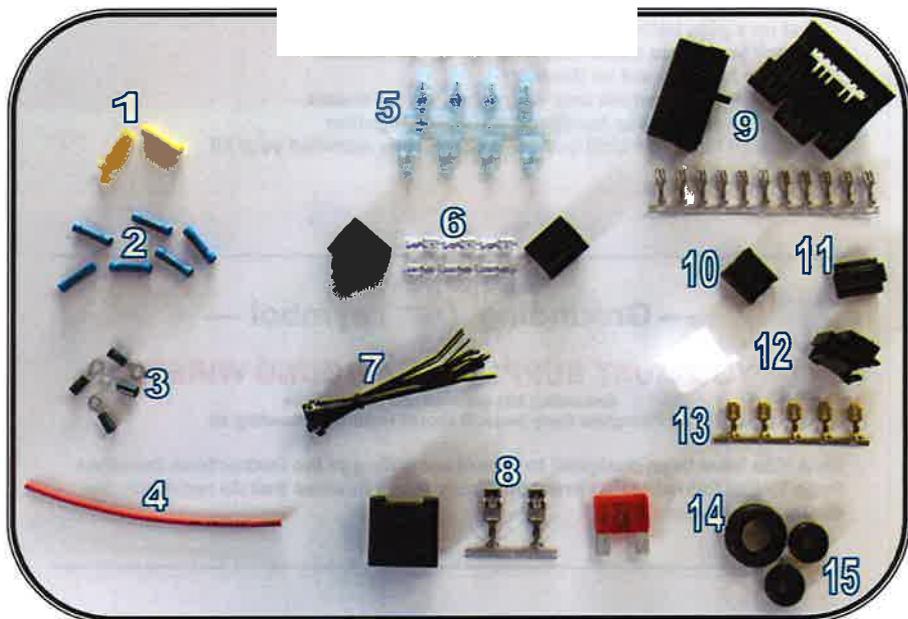
Figure 3



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## What's Included?



- |   |   |
|---|---|
| 1) 2- 10-12 Ga. Butt connectors                     | 9) 1 Each Early and Late Model Column Connector |
| 2) 6- 16-14 Ga. Butt Connectors                     | 10) 1- Alternator Connector                     |
| 3) 4- 16-14 Ga. #10 Ring Terminal                   | 11) 1- Dimmer Switch Connector                  |
| 4) 1- 6" Lead Wire for Ignition                     | 12) 1 Set Key On The Column Plugs               |
| 5) 4- Male & Female Connectors                      | 13) 10 pcs 56 Series Terminals                  |
| 6) 1- Set of Headlight Connectors                   | 14) 1- 3/4" Grommet                             |
| 7) 10-15 4" Wire Ties                               | 15) 2- 1/2" Grommets                            |
| 8) Maxi Fuse Holder, Terminals and 50 amp Maxi Fuse |   |

## — Step By Step Instructions to Wire Your Car —

### **\*\*First Disconnect Battery\*\***

Read the instruction book and look at all diagrams before going on  
This instruction book is used for all harnesses  
Some wire in the instruction book may not apply to your kit  
Set up 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 until you have completely installed your kit

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## — Grounding ( ) symbol —

### **\*\*YOU MUST SUPPLY ALL GROUND WIRES\*\***

Grounding kits are available at  
All Fiberglass Body projects should require a grounding kit

Kwik Kits have been designed to mount according to the instructions found on Page 7. Not following this procedure may result in wires that do not reach the desired destination.

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## — Testing —

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

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**Proceed with instillation of your Universal Street Rod Wiring Harness only after you have read and understand all of the above steps and guidelines.**

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### — Terms and Conditions of Your Purchase —

Buyer's sole and exclusive remedy and Saint Wire & Cable Inc. sole and exclusive liability to buyer here under is limited to repair or replacement, at \_\_\_\_\_ option, of the product, sold hereby. \_\_\_\_\_ liability, whether based upon warranty, contract, tort or negligence, shall not in any case exceed the cost of correcting defects in the goods as herein provided. Saint Wire & Cable Inc. shall in no event be liable in contract or in tort (including negligence) for special indirect, incidental or consequential damages, such as, but not limited to, loss of property damage, or any other damage, cost or expenses which might be claimed as the result of the use or failure of repair or replacement as above described.

To insure the highest quality products, we must ask that you order only what your needs require., we do not accept returns that have been damaged or tampered with while in your possession. Claims for shortages and returns must be made within 20 days of purchase or shipping date. You will need to call \_\_\_\_\_ for authorization Number on all returned goods. Phone 920-921-2637.

Special orders are not returnable. No cash refunds. Items Returned for Credit subject to 20% handling plus repacking charges if required.

This includes products purchased from the company at events, 98% of all returns could be eliminated with a phone call to \_\_\_\_\_ at 1-888-994-9913.

### **Absolutely NO Returns after 20 Days**

Delayed installations, do not extend return privileges.

**Absolutely NO RETURNS will be accepted at any event after the 20 day period has ended. Please pay by check, money order or credit card. Personal checks accepted but may cause delays. We must have street address for UPS deliveries. Prices subject to change without notice. If price changes are extreme, you will be notified by mail before shipment.**

Thanks Again!

## Fuse Chart

### 22 Circuit Harness

Function	Amp Fuse
Hazard	25
Horn	20
Dome	10
Cig. Lighter	20
Fuel	15
Wiper/Elec. Choke	15
Gauges	10
Electric Fan	25
Power Windows	30
Stop	20
Power Door Locks	20
Back-up	20
Headlights	25
Acc.	20
Radio Constant	10
Acc.	20
A/C Heat	30
Radio	10
Turn	15
Coil	30

### 14 Circuit Harness

Function	Amp Fuse
Stop/ Radio Constant	20
Horn	20
Headlights	25
Dome/Hazard	25
Fuel Pump	15
Radio	10
Gauges	10
Coil	30
Electric Fan	25
Wiper/Elec. Choke	15
A/C Heat	30
Radio	10
Turn Signal	15
Coil	30

### 8 Circuit Harness

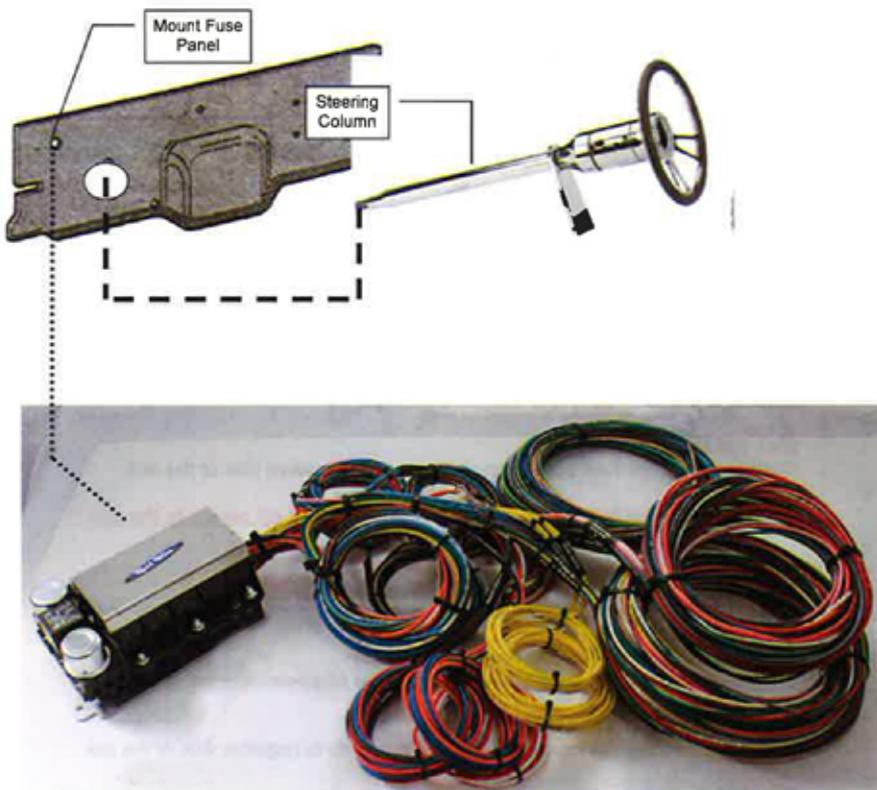
Function	Amp Fuse
Turn / Wiper	20
Radio	10
Gauges	10
Fuel Pump/Elec. Choke	15
Hazard	25
Headlights	25
Stop / Horn	20
Coil	30

### Only Use Recommended Fuses

**Note:** This Instruction book will cover all harnesses. Not all wires listed in the instruction book will be in your harness depending on size fuse panel you purchased.

## Mounting Fuse Panel

Fuse panels must be mounted under the dash next to the steering column.



## Motor Group

### **Wire #14 White 16 Ga. (Alternator Exciter)**

Originates from the fuse panel and connects to the alternator. See Page 10

### **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.

**\*\*Add fusible link or maxi fuse on this wire**



### **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 Page 18

### **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)**

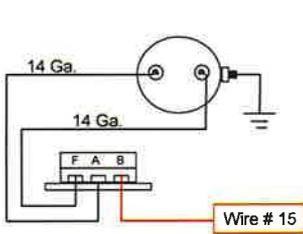
Originates from the fuse panel and connects to the positive side of the electric choke.

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

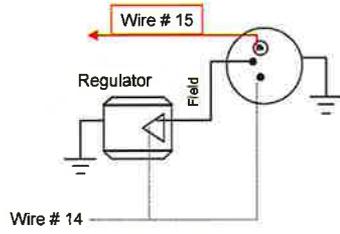
Originates from the fuse panel and connects to the thermostat switch power.



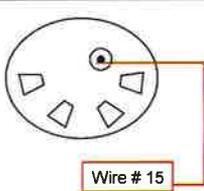
# Alternators



— Generator Charging System —

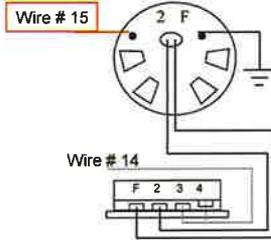


— Mopar Alternator —

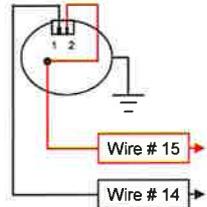


Note: Wire #14 NOT USED

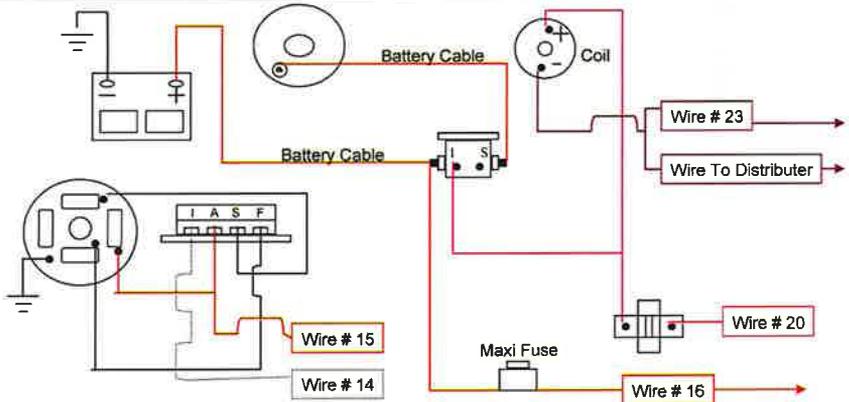
— GM 1 Wire Alternator —



— GM Alternator with Reg. —



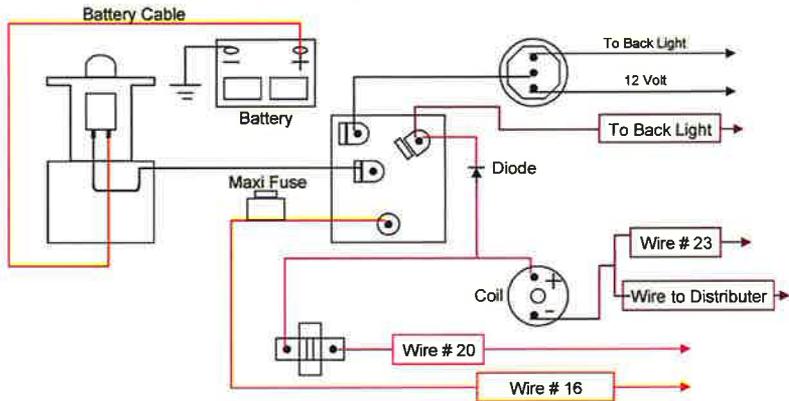
— GM Alternator —



— Ford Alternator —

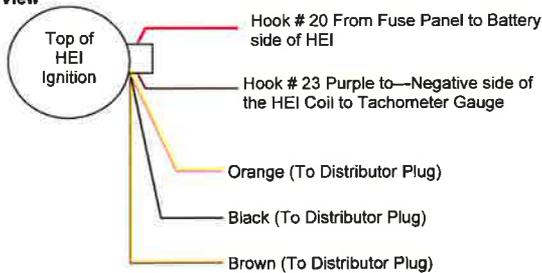
— Ford Ignition System —

## — Mopar Ignition System —

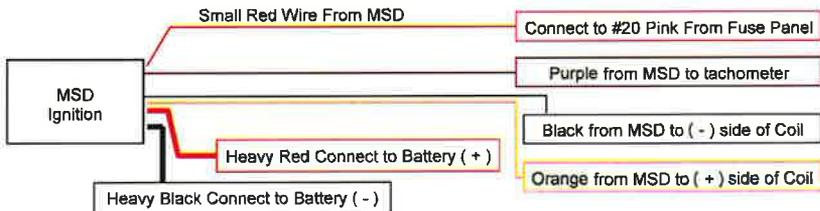


## — G.M. HEI Ignition Hook Up —

**\*\*Top View**



## — 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)**

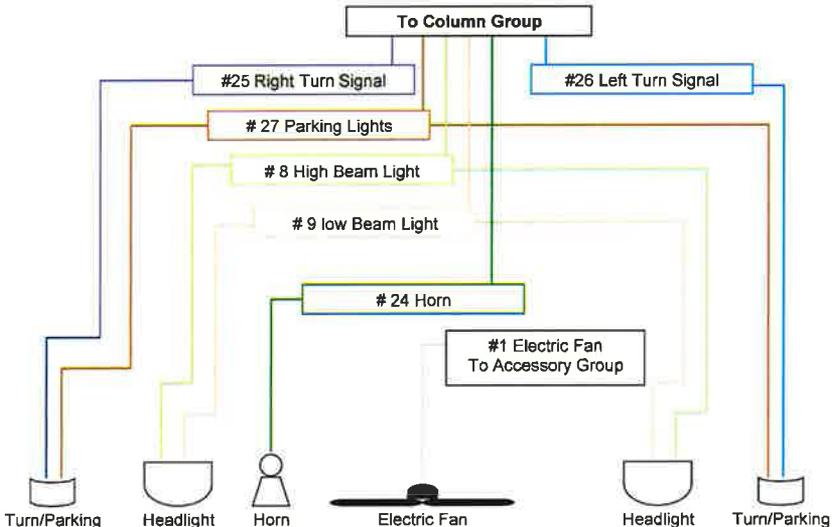
Originates from the dimmer switch and connects to the left and right low beam headlights

**# 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)*

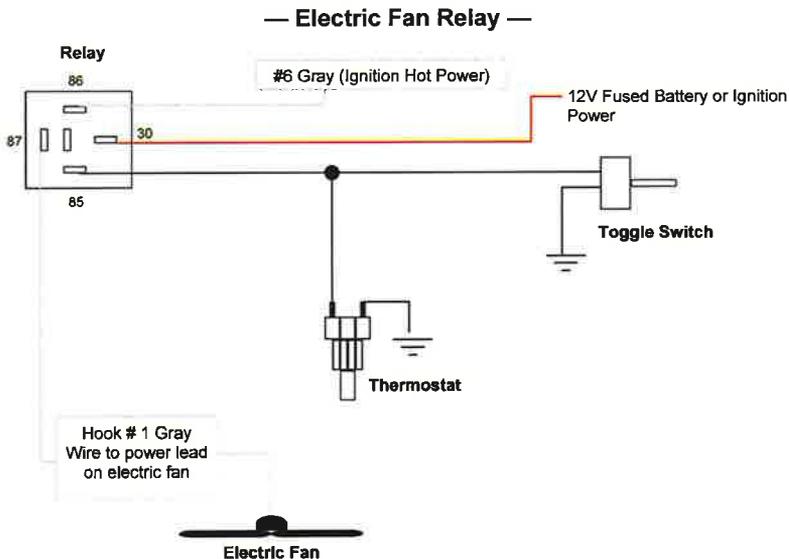
**\*\*Electric Fan Relay Kit is only included in the Add-on Option Kit\*\***

Pre-wired Relay Kit Part # 2078

Relay Kit Part # 6060

Thermostat Switch Part # 2079

Adjustable Thermostat switch Part # 50801



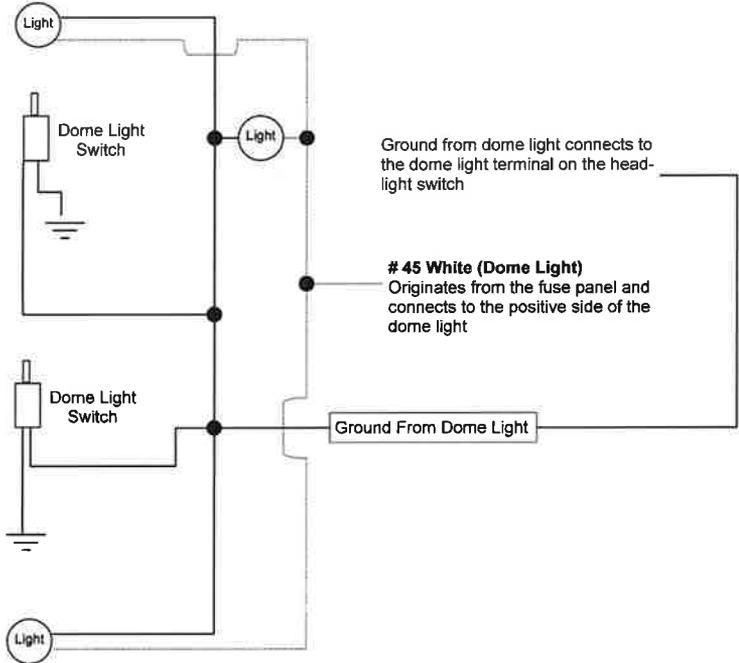
# Dome Light

## # 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.

**\*\*All door jam switches and headlight switch must be grounded\*\***



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## Accessory Group Battery Positive

### — Accessory Switch Group —

**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.

---

### — Accessory Group Battery Positive —

**Wire # 3 Tan 14 Ga. (Cigarette Lighter)**

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 Fan)**

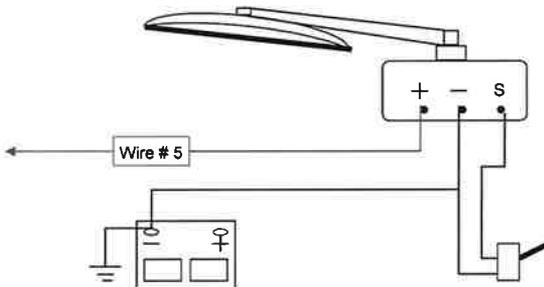
Originates from the Fuse Panel and connect to the heater fan switch battery positive.

**Wire # 5 Blue 16 Ga. (Wiper)**

Originates from the fuse panel and connect to windshield wiper switch battery terminal.

---

### — Wiper Switch —



## 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

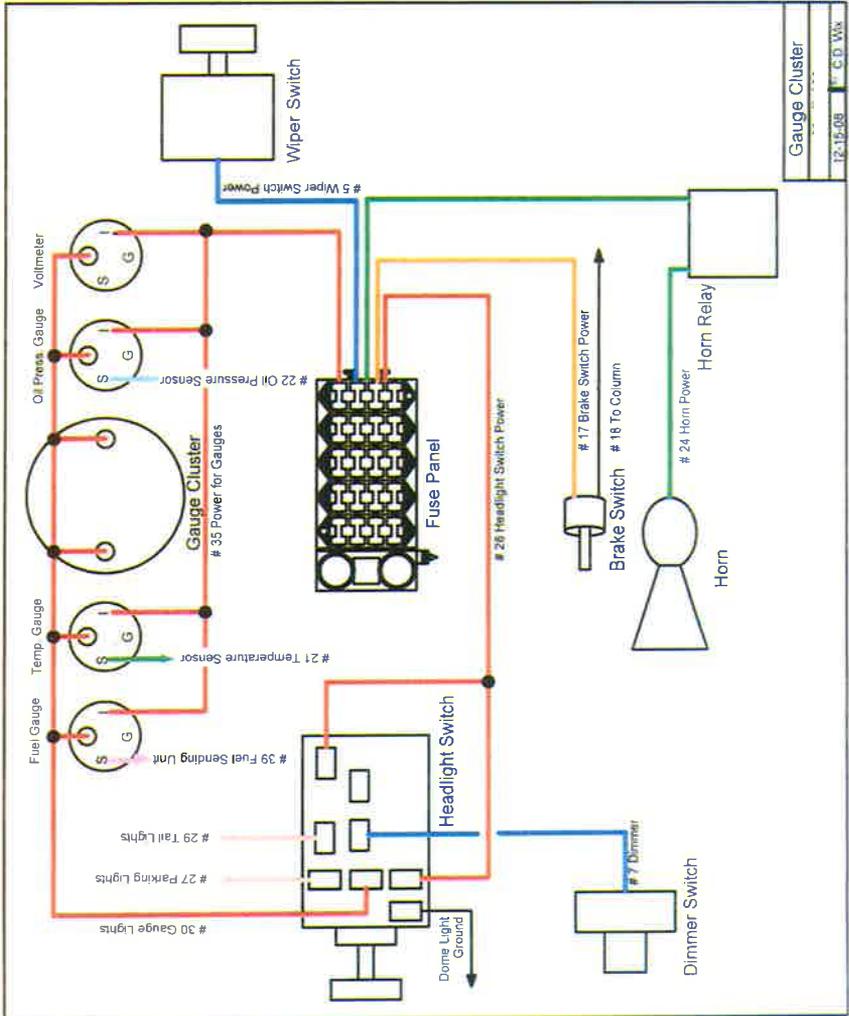
**Wire # 38 Blue 18 Ga. (Right Turn Indicator)**

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

**\*\*Be sure to ground all gauges to a good clean ground\*\***

Instrument Diagram on Page 17

# Instrument Group



Gauge Cluster  
12-15-00 C.D. Wax

# Ignition Group

**# 31 Pink (Coll)**

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

**# 32 Brown (Ignition Switch Accessory)**

Originates from the fuse panel and connects to the ignition switch terminal marked "ACC" - (22 Cir. Only)

**# 33 Orange (Ignition Switch Accessory)**

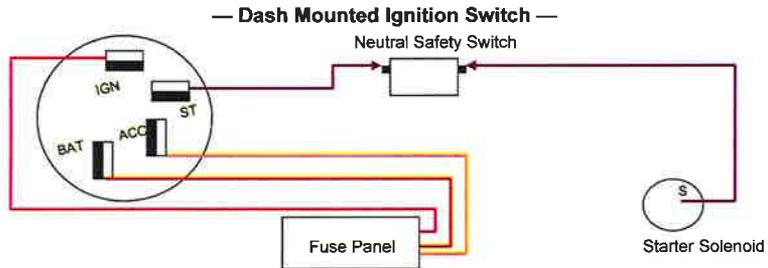
Originates from the fuse panel and connects to the ignition switch terminal marked "ACC"

**# 34 Red (Ignition Power)**

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

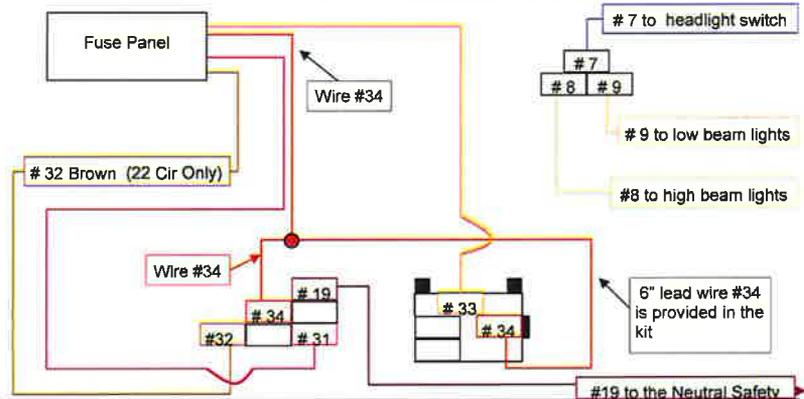
**# 19 Purple (Neutral Safety)**

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



— Key on the Column —

# 34 wire must go to both terminal blocks (Included in the bag of part 6" red wire)



## Column/Turn Signal Group

### # 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)

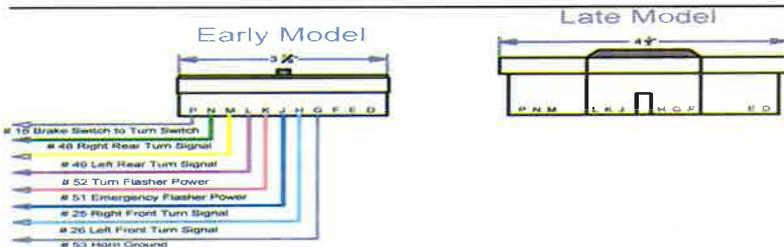
Originates from the "H" terminal of the GM turn signal plug and connects to the left front turn signal

### # 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"



\*Late model is wired exactly as early model.

## Ford Column/Turn Signal Group

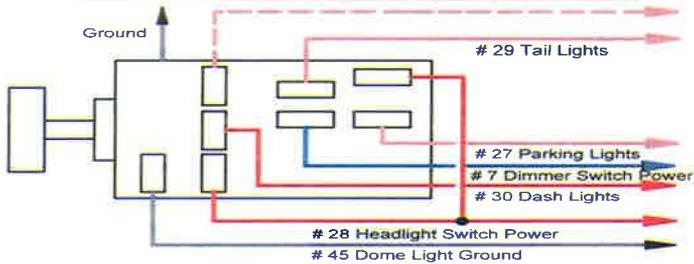
**White / Blue** Right Front Turn  
**White / Red** Emergency Flasher  
**Green / White** Left Front Turn  
**Green/Orange** Left Rear Turn  
**Orange / Blue** Right Rear Turn  
**Green** Brake Light  
**Blue** Power for turn signals

**Black / Green** Ignition Accessory  
**Black** Ignition Coil  
**Brown / Purple** Starter  
**Yellow** Ignition Power

# Mopar Column/Turn Signal Group

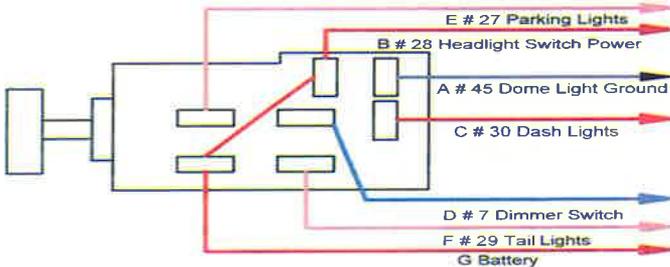
<b>Tan</b>	Right Front Turn	<b>Blue</b>	Ignition Accessory
<b>Pink</b>	Emergency Flasher	<b>Brown</b>	Ignition Coil
<b>Green</b>	Left Front Turn	<b>Yellow</b>	Starter
<b>Green</b>	Left Rear Turn	<b>Red</b>	Ignition Power
<b>Brown</b>	Right Rear Turn		
<b>White</b>	Brake Light		
<b>Red</b>	Power for turn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

## 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

## Radio Group

### # 40 Red (Radio Constant)

Originates from the fuse panel and connects to the radio memory wire

### # 41 Red (Radio Ignition)

Originates from the fuse panel and connects to the radio ignition hot wire

### # 42 Purple (Power Antenna Signal)

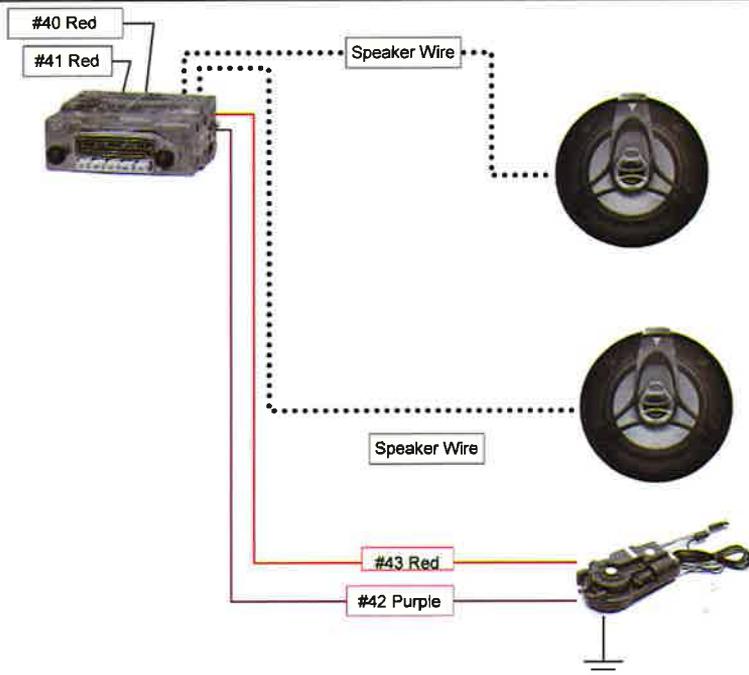
Originates from the radio group and connects to signal wire on your power antenna

### # 43 Red (Power Antenna Constant Hot)

Originates from fuse panel and connects to 12 volt power wire on your power antenna

### Speaker Wire

Originates from the radio group and connects to the rear speaker



## **Cruise Control and Back Up Light Group**

**\*\*22 Circuit**

**Harness ONLY\*\***

**# 57 Pink (Cruise Control)**

Originates from the fuse panel and connects to the cruise control power wire.

**# 56 Green (Back up Lights)**

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

**# 58 Lt. Green (Back Up Light Switch Power)**

Originates from the fuse panel and connects to the back up light switch power wire.

---

**— 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

---

**— Power Seat Group —**

*26 Circuit Only*

**#50 Lt.GREEN (Power Seat)**

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

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**— Power Top Group —**

*26 Circuit Only*

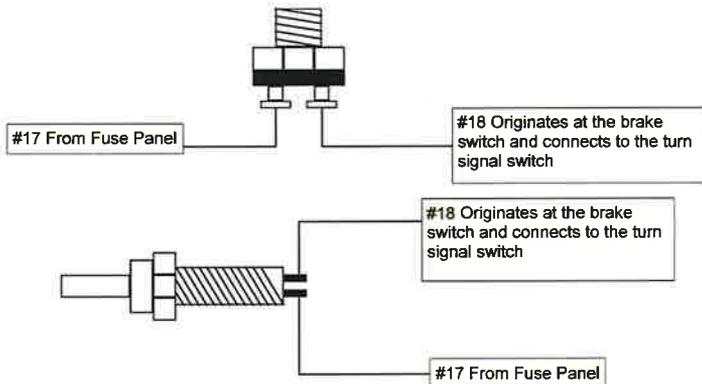
**#59 Tan (Power Top)**

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

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## Brake Switch

### Hydraulic Brake Switch



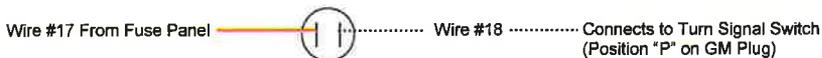
#### # 17 Orange (Brake power)

Connect to battery side of brake switch

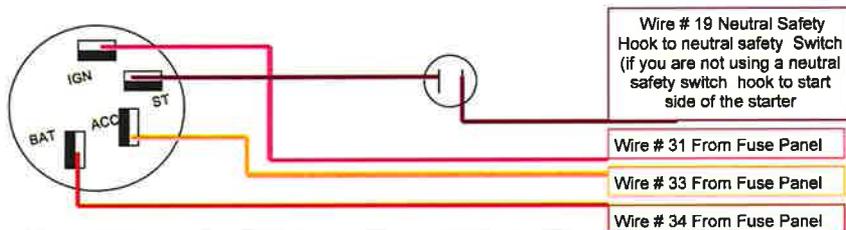
#### # 18 White (Brake)

Originates from the brake light switch and hook to turn signal switch

### Brake Switch



## Ignition With Push To Start



Wire # 19 Neutral Safety  
Hook to neutral safety Switch  
(if you are not using a neutral  
safety switch hook to start  
side of the starter

Wire # 31 From Fuse Panel

Wire # 33 From Fuse Panel

Wire # 34 From Fuse Panel

## Tail Lights

### #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*

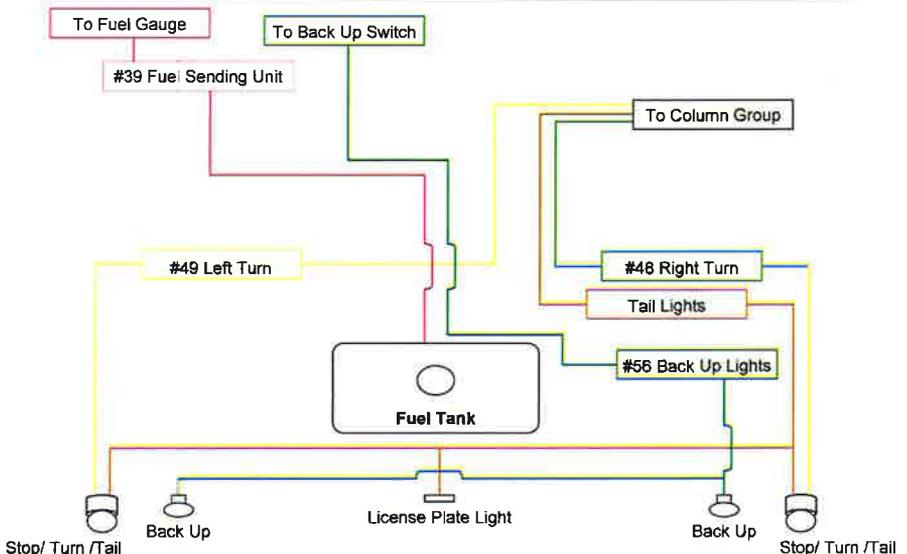
### #55 Orange (Third Brake Light)

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

**\*\*Make sure fuel tank and all lights are grounded to a good clean ground\*\***



## Tail Group

### # 39 Pink (Fuel Sending Unit)

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

### # 47 Yellow (Fuel Pump Power)

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

*Note: You may need to relay the fuel pump. Check the fuel pump instructions.*

### # 42 Purple (Power Antenna Signal)

Originates from the Radio Group and connects to the power antenna signal wire.

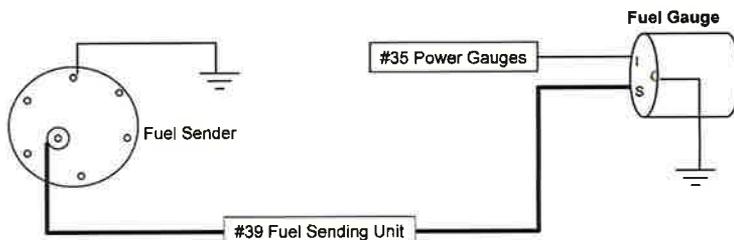
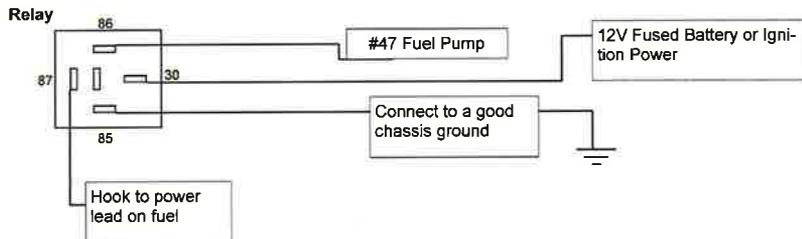
### # 43 Red (Power Antenna Constant Hot)

Originates from the Fuse panel and connects to the power antenna power wire.

### # 46 Green (Trunk Light)

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

### — Fuel Pump Relay —

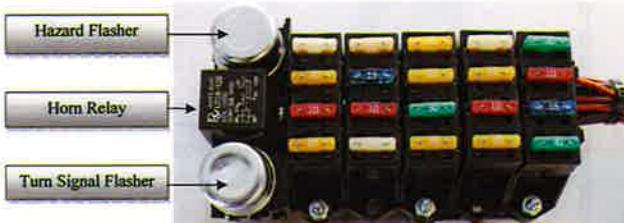


## Wire Functions

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
40	Constant Hot Wire
41	Ignition Hot Wire
42	Switched Wire
43	Constant Hot Wire
45	Constant Hot Wire
46	Constant Hot Wire
47	Ignition Hot Wire
48	Switched Wire
49	Switched Wire
50	Constant Hot 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
59	Ignition Hot Wire
60	Constant Hot Wire

# Fuse Panel Layout



●	Hazard	Fuel Pump	Windows	Lights	Heat
■	Horn	Wipers	Stop	ACC	Radio
●	Dome	Gauges	Locks	Radio	Turn
●	Lighter	Fan	Cruise	ACC	Coil



●	Stop & Radio	Fuel	Fan
■	Horn	Radio	Wiper
●	Lights	Gauges	Heat
●	Dome	Coil	Turn



●	Turn & Wiper	Hazard
■	Radio	Lights
●	Gauges	Stop
●	Fuel	Coil