

# USER GUIDE & INSTALLATION MANUAL

## GM/HOLDEN

### BWMSPRO15GM-1 15 FUSE

### 24 CIRCUIT—118 TERMINAL PANEL

### WIRE HARNESS KIT



**IMPORTANT:** The below instructions are referring to a general installation. Your vehicle may vary from the vehicles described in these instructions. Use the diagrams that best describe your vehicle.

#### 1 Please read the following instructions carefully.

Reading these instructions thoroughly will ensure a complete and trouble free installation. These instructions were designed after installing this system in different applications and should make this an easy job for any type of make and model vehicle that you are working on.

To help you with the installation, we have provided basic instructions for Ford, GM and Mopar systems. Please remember that these are basic instructions for your installation. The specific vehicle you're working on may require some modification for your application, depending on what accessories you plan to use. Whenever using after-market equipment or accessories, always use the diagrams provided with that equipment.

When we reference a specific wire, it will be shown with its label, then its color. The labeled wire in our instructions will match the label on the wire exactly. If a diagram or picture displays a wire that is not provided in the kit, then you will need to provide that wire. An example of this would be a ground wire. When installing ground wires, make sure the wire is connected directly to a solid chassis ground. We recommend that you use the color black for all ground wires during the installation.

#### 2 Take good notes.

We have provided plenty of writing space throughout the instructions to make notes during the installation. Taking notes will help you with the install so you don't get lost along the way. In each section of the instructions, you will find a checklist that references the wires to be used. The checklists are labeled "Front", "Rear", "Dash" and "Steering". Here you will write down what wires you will use or not use. If you are using a wire from one section but routing it to a different section, make sure you write down the wire in the new checklist. An example of this could be the fuel pump wire. Go to the "Rear" Checklist, next to the fuel pump wire, write the words, "Front section" in the "Relocate" box. In some cases you might have some wires that you will not be using at all. Place a check mark or an "x" in the "Not Used" column pertaining to the checklist where that wire is located. Keep in mind that it's a good idea to leave this wire in the harness and it should also be routed to the proper location. An example of this would be the cruise control wire, since not all installations will have a cruise control system added to the vehicle. You should still route the wire to where a cruise control module would be installed, just in case a cruise control system is added at a later date. This will give you or your customer future options that can be added to the vehicle when needed.

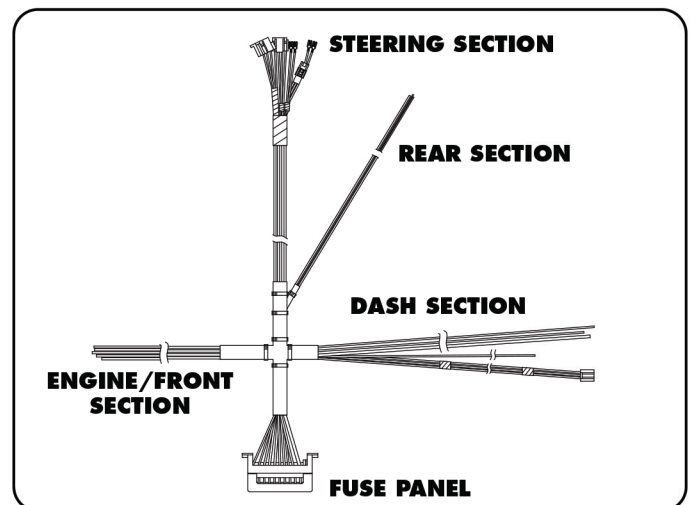
#### 3 Preparing the wire harness for installation.

You will need a large area to spread out the harness and prepare for the installation. The floor or a work bench would be a good location to get started. Your new wire harness kit will have four sections, "Front", "Rear", "Dash", "Steering", as described above.

Begin with the "Front" section of wires. These are the wires that will be mounted through the fire wall. Unwrap or uncoil the wires and lay them out straight towards the front of the vehicle. The next section of wires will be the "Tail" section. Unwrap or uncoil the wires and lay them out straight towards the rear of the vehicle. The remaining sections of wires are the "Dash" and the "Steering" column sections. The "Steering" column section has the two main connectors that are black and white. The last section is the "Dash" section. Unwrap or uncoil the wires and lay them out straight near the fuse panel.

To ensure correct wiring, start by removing all unused wires from the loom and work one section at a time. At this point of the installation it is important to remove each wire, one at a time, by pulling them through the cable ties in the harness.

Once all unused wires are removed from the harness, start to move the noted wires from one section to another by pulling them through the cable ties and into the desired section. Please take caution to ensure you insert the wire into all cable ties throughout the harness sections. Once completed, you can add any additional wires that are not provided in the system. To ensure accuracy and easy upgrades, please take notes on any additional circuits that you add.



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## 4 Mounting the fuse panel.

The best place to mount the fuse panel is in a flat dry location away from any heat source near the steering column. It is important to note that you should avoid running or mounting wire away from any moving parts such as: brake pedal, gas pedal, linkage controls, and steering controls. Once mounted, find a location on the firewall and drill a 1 1/4" hole to run all needed wires into the engine compartment of the vehicle.

## 5 Routing the wires.

The final step is to clean up your installation by grouping all the wires together and securing them with the cable ties that came in the kit. It is important to take your time and go section by section of your vehicle starting at the tail section and finishing at the dash section.

### Engine & Front Section:

Start by separating all the engine wires from the other wires in this section. At this point please reference the Front & TRear diagram(pg 5) to finish wiring your lights and accessories. To wire your engine please choose the best diagram that fits your vehicle from the Ford, Mopar, or GM sections. It is important to remember that you must use a fusible link on the red 10 gauge solenoid power wire. In the event you are using an AMP meter please reference the dash diagram's AMP meter section to insure correct installation.

### ENGINE/FRONT CHECKLIST

No.	Spec.	Color		RELOCATE	NOT USED
A1	14AWG	Black	ALT EXC		
A4	16AWG	Light Green	REV.SWITCH		
B2	8AWG	Red	BATT		
D1	14AWG	Dark Green	FAN PWR		
D3	14AWG	Tan	CHOKE		
H3	16AWG	Brown	TACH		
H4	16AWG	Dark Green	TEMP		
H5	16AWG	Dark Blue	RF TURN		
H6	14AWG	Light Green	HI BEAM		
H7	16AWG	Light Blue	LF TURN		
H8	14AWG	Tan	LO BEAM		
H10	16AWG	Purple	F PARK LIGHT		
H11	12AWG	Pink	STARTER		
H12	12AWG	Pink	COIL		
H19	16AWG	Light Green	REV.LIGHT		
H28	16AWG	Dark Blue	OIL		
H30	16AWG	Dark Green	HORN		

## FUSE PANEL

No.	Spec.	Color		NOT USED
A1	14AWG	Black	ALT EXC	
A2	14AWG	Orange	ACC 1	
A3	14AWG	Yellow	ACC 2	
A4	16AWG	Pink	CRUISE/REV	
A5	12AWG	Brown	HEATER	
A6	14AWG	Yellow	WIPER	
A7	14AWG	Dark Blue	CIG LIGHTER	
A8	16AWG	White	DOME LIGHT PWR	
A9	14AWG	Green	KEYLESS	
A10	10AWG	Orange	SHAVED DOORS	
B1	12AWG	Brown	KEY ACC	
B2	8AWG	Red	BATT	
C1	10AWG	Yellow	IGNITION	
D1	14AWG	Dark Green	FAN PWR	
D2	16AWG	Grey	GAUGES	
D3	16AWG	Tan	CHOKE/FUEL	
D4	12AWG	Yellow	PWR WIN	
D5	12AWG	Red	PWR SEAT	
D6	16AWG	Yellow	RADIO ACC	
D7	16AWG	White	BRAKE SWITCH	
D8	16AWG	Violet	FLASHER	
D9	16AWG	Grey	12V PORT	
D10	12AWG	Light Blue	HEAD LIGHT	

### Rear Section:

Run all the wires to the back of the vehicle along your vehicle's floor pan into the trunk area avoiding all moving parts. Use tape or cables ties to secure the wires to your vehicle. Once all the wires have been routed to the tail section you will need to hook up all appropriate wires including but not limited to your fuel gauge sender, tail lights, fuel pump, and dome light.

### REAR CHECKLIST

No.	Spec.	Color		RELOCATE	NOT USED
A8	16AWG	White	DOME LIGHT PWR		
D3	16AWG	Tan	FUEL PUMP		
H16	16AWG	Brown	R PARK LIGHTS		
H19	16AWG	Light Green	REV.LIGHT		
H20	16AWG	Tan	FUEL GAUGE		
H22	16AWG	White	BRAKE LIGHT		
H23	16AWG	Yellow	LR TURN		
H24	16AWG	Dark Green	RR TURN		



**Steering Section:**

The steering column section has all the necessary wires for your vehicles steering column including your ignition switch, turn signals, dimmer switch, and more. Keep It Clean's™ wire panel systems come prewired with two clear and black connectors for a GM steering column with a column mounted ignition switch. These connectors will plug in directly into your column mount ignition switch. In the event you use a different style of switch you may need to rewire the connectors. Please reference your switch diagram(pg 4) to ensure correct wiring. Keep It Clean's™ dimmer switch plug will fit GM floor mounted dimmer switches. Please reference the GM wiring section to choose the correct column plug and wire order for your vehicle.

All column plug wires are terminated and all plugs are letter coded. Please note that many styles of column connectors and wires have different colors and configurations. If your colors do not match or you are using a switch that is not mentioned, then you will need to use a digital volt ohm meter and test for the correct wires. To save time most ignition switch wires are marked on the back. In the event you are using late model GM van column you will need to reference the dash section's ignition switch diagram(pg 4). In most cases late model GM van column

**STEERING CHECKLIST**

No.	Spec.	Color		RELOCATE	NOT USED
A2	12AWG	Orange	ACC 1		
A3	12AWG	Yellow	ACC 2		
A4	16AWG	Pink	CRUISE		
A5	12AWG	Brown	HEATER		
A6	14AWG	Yellow	WIPER		
A7	16AWG	Orange	RADIO BATT		
A7	14AWG	Dark Blue	CIG. LIGHTER		
A8	16AWG	Grey	UNDER DASH LT		
A9	14AWG	Green	KEYLESS		
A10	10AWG	Orange	SHAVED DOORS		
D2	16AWG	Grey	GAUGES PWR		
D4	12AWG	Yellow	PWR WINDOW		
D5	12AWG	Red	PWR SEATS		
D6	16AWG	Yellow	RADIO ACC		
D7	16AWG	White	BRAKE SW PWR		
D9	16AWG	Gray	12V PORT		
H1	16AWG	Gray	DASH LIGHTS		
H3	16AWG	Brown	TACH		
H4	16AWG	Dark Green	TEMP		
H6	14AWG	Light Green	HI BEAM		
H8	14AWG	Tan	LO BEAM		
H13	16AWG	Light Blue	LF TURN IND.		
H14	16AWG	White	BRAKE SWITCH		
H18	16AWG	Dark Blue	RF TURN IND.		
H20	16AWG	Tan	FUEL GAUGE		
H21	12AWG	Light Blue	DIMMER SWITCH		
H28	16AWG	Dark Blue	OIL		

turn signals will work correctly on all Keep It Clean™ wire kits. Please test plug for compatibility.

**Dash Section:**

To save time and to ensure easy installation, start wiring the dash from the driver's side to the passenger's side. Please keep in mind that the dash section contains several wires including but not limited to: heater, headlight switch, gauges, wiper, cooling fan, and more. Once all wires are connected use cable ties to group and secure the wires together. Make sure not to route or secure the wires to any moving parts.

**DASH CHECKLIST**

No.	Spec.	Color		RELOCATE	NOT USED
B1	12AWG	Brown	KEY ACC		
B2	12AWG	Red	BATT		
C1	10AWG	Yellow	IGNITION		
H5	16AWG	Dark Blue	RF TURN		
H7	16AWG	Light Blue	LF TURN		
H10	16AWG	Purple	F PARK LIGHTS		
H11	12AWG	Pink	STARTER		
H12	12AWG	Pink	COIL		
H1	16AWG	Gray	DASH LIGHTS		
H13	16AWG	Light Blue	LF TURN IND.		
H14	16AWG	White	BRAKE SWITCH		
H15	16AWG	Dark Green	HORN		
H18	16AWG	Dark Blue	RF TURN IND.		
H21	12AWG	Light Blue	DIMMER SW		
H22	16AWG	White	BRAKE LIGHT		
H23	16AWG	Yellow	LR TURN		
H24	16AWG	Dark Green	RR TURN		
H16	16AWG	Brown	R PARK LIGHTS		
H29	16AWG	Light Green	HI BEAM IND.		
D10	12AWG	Light Blue	HEAD LGT PWR		

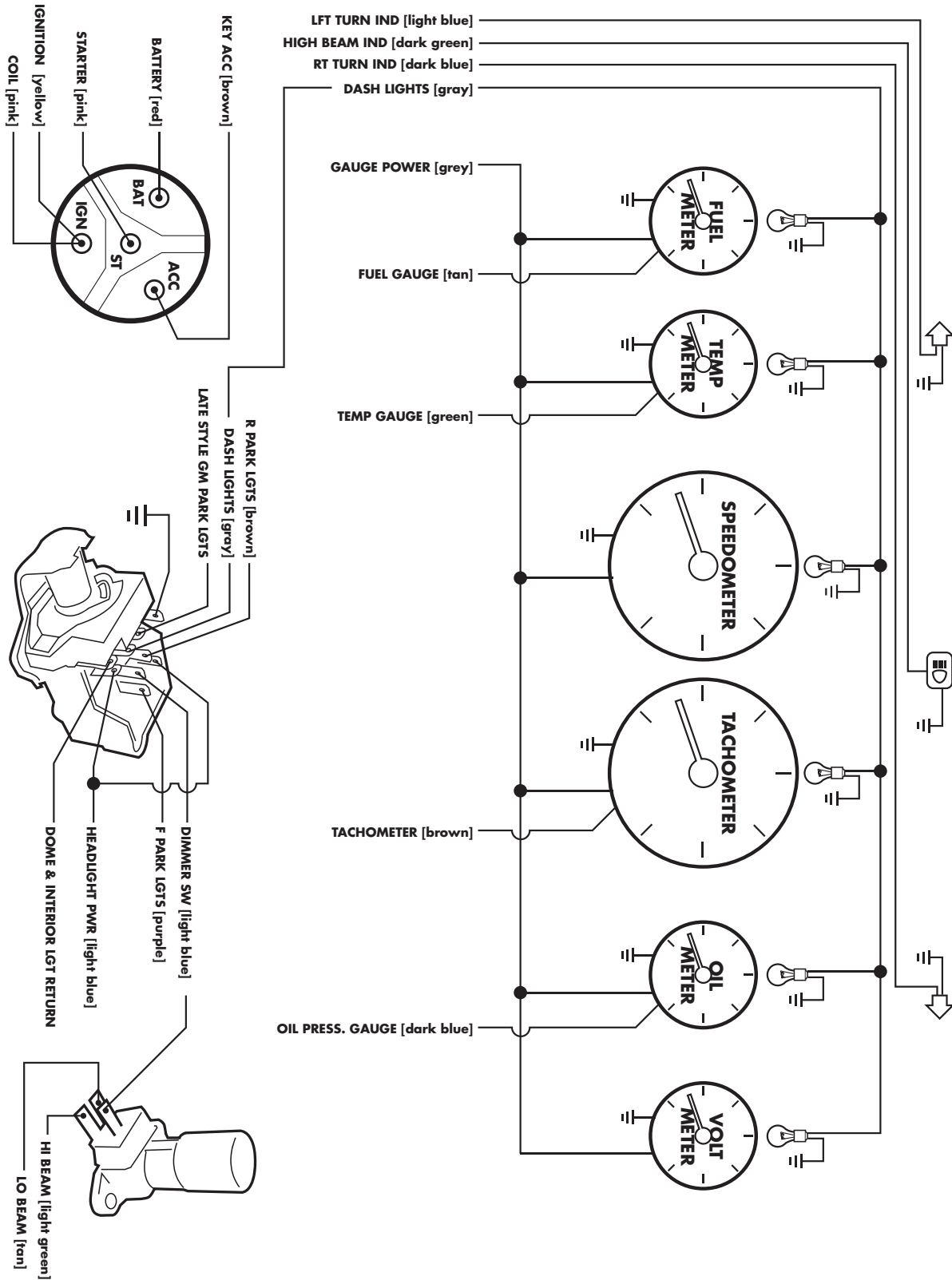
**6 Final Installation:**

By this time all wires should be connected or terminated and secured to your vehicle. To start your vehicle for the first time follow these easy steps:

- A.** Turn off all accessories.
- B.** Close all doors, hood, and trunks.
- C.** Place the ignition switch in the "OFF" position.
- D.** Check to insure there is a fuse on the starter wire.
- E.** Connect the negative battery cable to the battery.
- F.** Check for current draw by connecting one side of a test light to the positive cable, and the other end to the positive side of the battery. If the light goes on you have either a short or an accessory drawing power. To find the short remove each wire until the light goes out. If you have a dim or no light then it's safe to hook up the positive cable.
- G.** Test the system and all accessories.

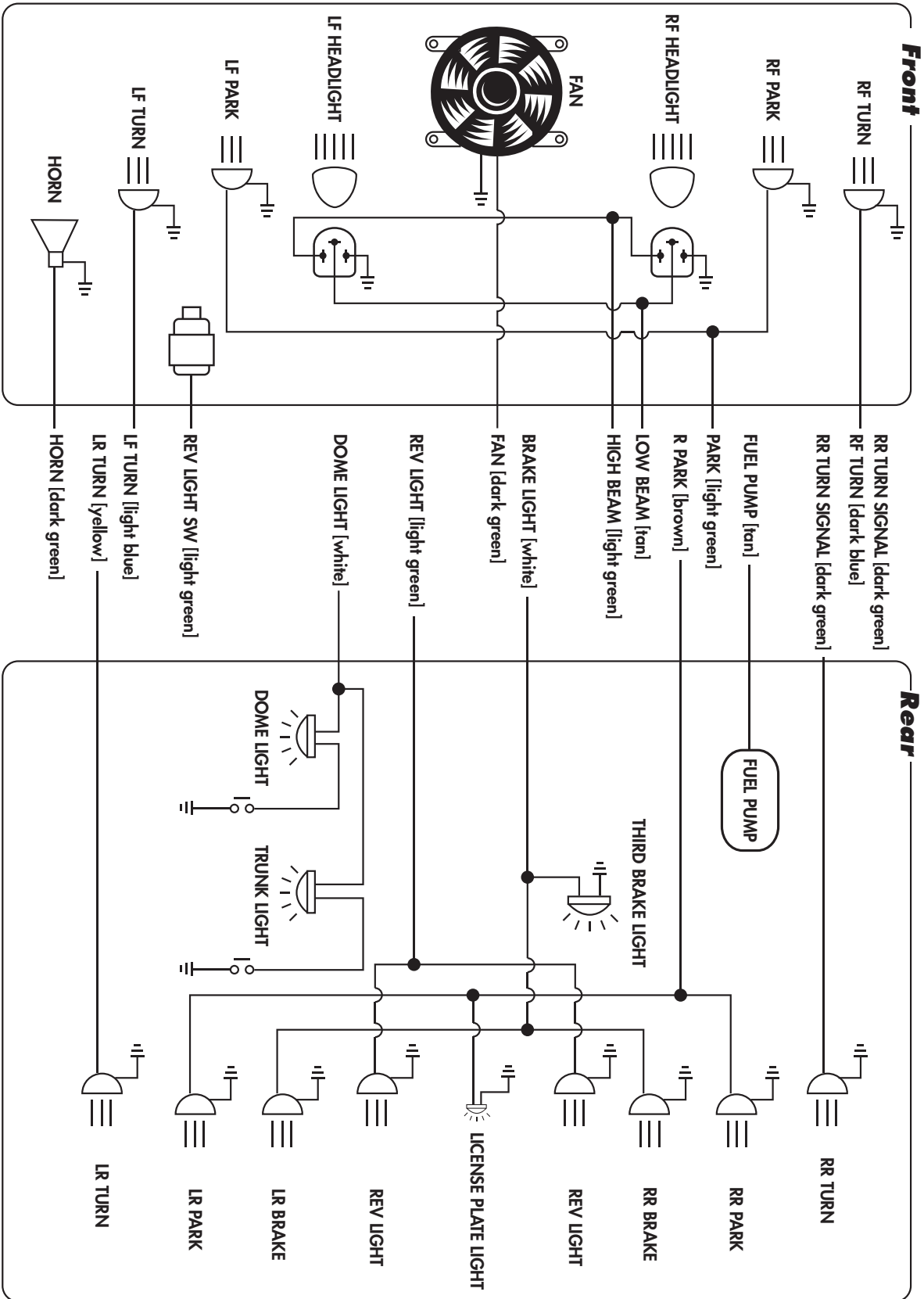


## DASH SECTION





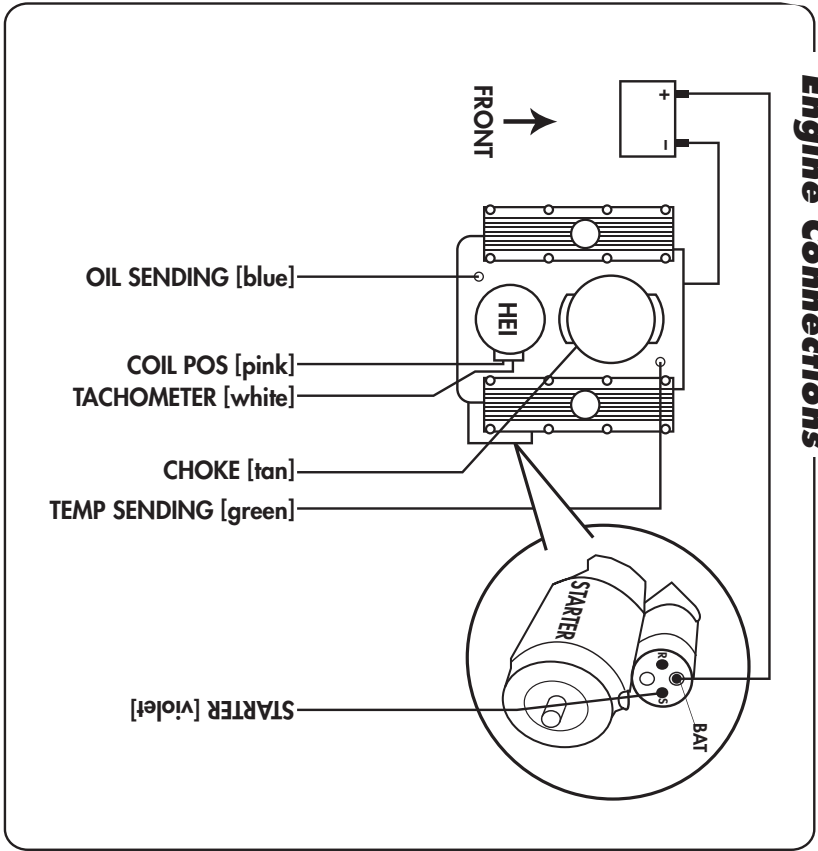
**FRONT & REAR DIAGRAMS**



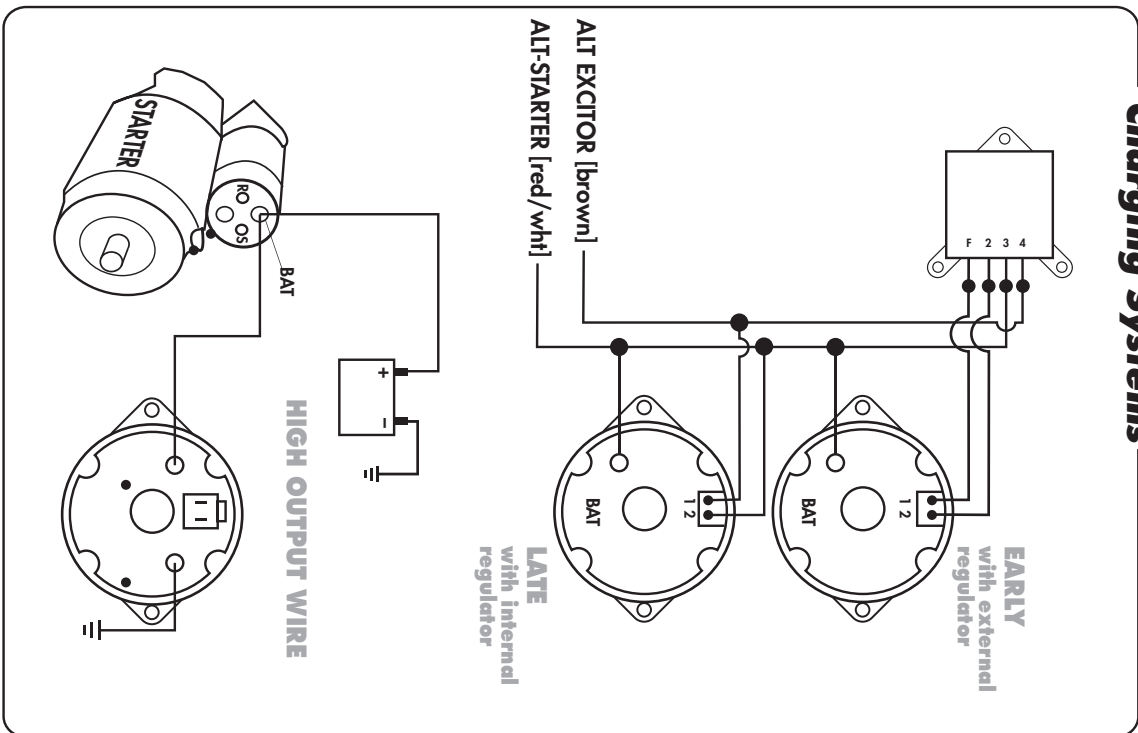
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## GM SPECIFIC DIAGRAMS

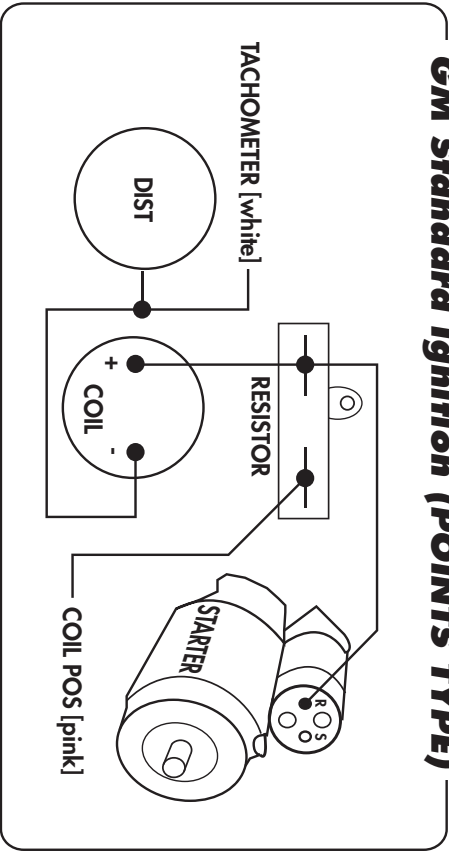
### Engine Connections



### Charging Systems



### GM Standard Ignition (POINTS TYPE)





Use this harness kit to replace or convert to a GM-keyed steering column.

## COLOR CODES FOR IGNITION SWITCH

### WHITE HOUSING

Brown	Accessory
Red	Battery Power (B+)
Pink	Ignition Coil (smaller wire terminal)
Purple	Start

### BLACK HOUSING

Red	Battery Power (B+)
Orange	Accessory

**NOTE:** Orange wire will need a larger terminal (copper in color) than the others.

## TURN SIGNAL COLOR CODES FOR WIRE PORT

### WHITE AND BLACK HOUSINGS

Black	Horn Ground	G
Lt. Blue	Left Front Turn	H
Blue	Right Front Turn	J
Brown	Hazard Power	K
Purple	Turn Signal Power	L
Yellow	Left Rear Turn	M
Green	Right Rear Turn	N
White	Brake Light Input	P

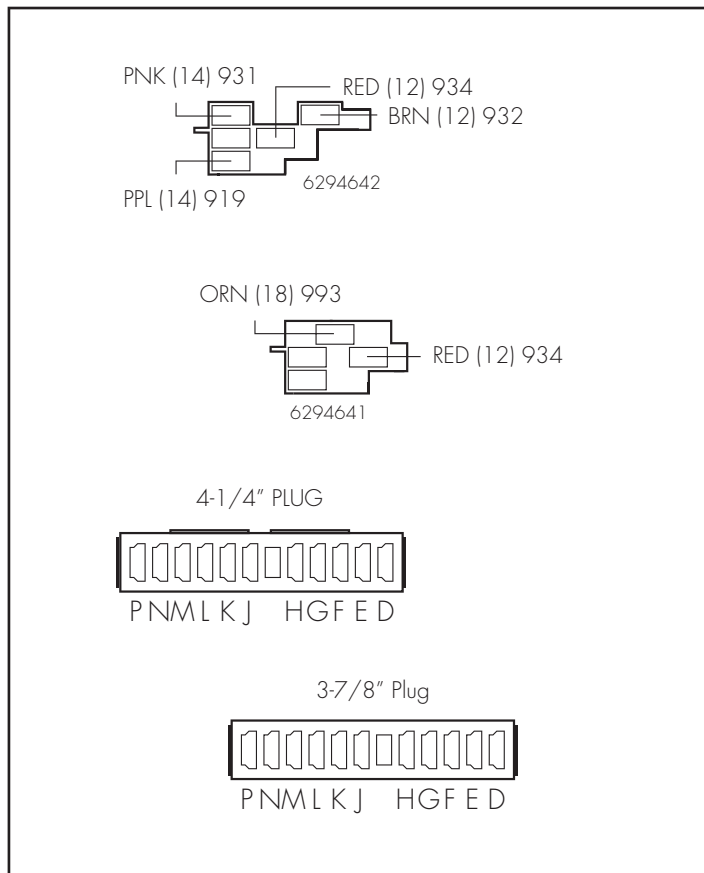
## DIMMER SWITCH COLOR CODES

### BLACK PYRAMID HOUSING

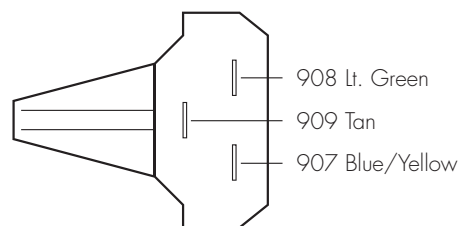
Blue/Yellow	Power From Light Switch
Tan	low Beams
Lt. Green	High Beams

**NOTE:** Both the floor and column mounted switches use the same connector assembly.

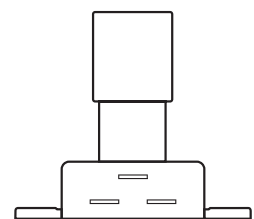
### GM Turn Signal connector



### Steering Column Dimmer Switch



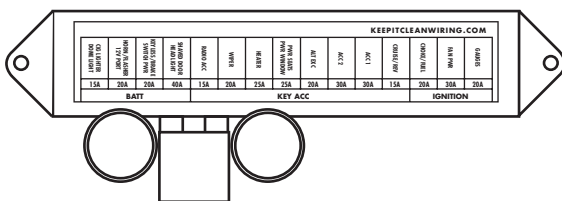
### Floor Dimmer Switch



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Front View



ENGINE / FRONT CHECKLIST

No.	Spec.	Color	RELOCATE	NOT USED
A1	14AWG	Black	ALT EXC	
A4	16AWG	Light Green	REV SWITCH	
B2	16AWG	Red	BATT	
D1	14AWG	Dark Green	FAN FWR	
D3	14AWG	Dark Green	CHOKE	
H3	16AWG	Brown	TACH	
H4	16AWG	Brown	TEMP	
H5	16AWG	Dark Blue	RF TURN	
H6	14AWG	Light Green	HI BEAM	
H7	14AWG	Light Blue	LF TURN	
H8	14AWG	tan	LO BEAM	
H10	16AWG	Purple	F PARK LIGHT	
H11	12AWG	Pink	STARTER	
H12	12AWG	Pink	COIL	
H19	16AWG	Light Green	REV LIGHT	
H28	16AWG	Dark Blue	HOHN	
H30	16AWG	Dark Green	HOHN	

STEERING CHECKLIST

No.	Spec.	Color	RELOCATE	NOT USED
A2	12AWG	Orange	ACC 1	
A3	12AWG	Yellow	ACC 2	
A4	16AWG	Pink	CHLSE	
A5	12AWG	Brown	HEATER	
A6	14AWG	Yellow	WIPER	
A7	16AWG	Orange	RADIO BATT	
A8	14AWG	Dark Blue	COG LIGHTER	
A9	16AWG	Green	UNDER DASH LT	
A10	16AWG	Green	STRUTS	
A11	16AWG	Green	STRUTS	
A12	16AWG	Green	STRUTS	
D2	12AWG	Yellow	GAUGE FWR	
D4	12AWG	Yellow	FAN WINDOW	
D5	12AWG	Red	FAN SEATS	
D7	16AWG	Yellow	RADIO ACC	
D9	16AWG	Grey	12V POBT	
H1	16AWG	Grey	DASH LIGHTS	
H3	16AWG	Brown	TACH	
H4	16AWG	Dark Green	TEMP	
H5	14AWG	Light Green	HI BEAM	
H8	14AWG	Light Blue	LO BEAM	
H13	16AWG	Light Blue	RF TURN	
H14	16AWG	White	BRAKE SWITCH	
H18	16AWG	Dark Blue	RF TURN IND	
H20	16AWG	tan	FUEL GAUGE	
H21	12AWG	Light Blue	FUEL GAUGE	
H28	16AWG	Dark Blue	SWIMMER SWITCH	

FUSE PANEL

No.	Spec.	Color	NOT USED
A1	14AWG	Black	ALT EXC
A2	14AWG	Orange	ACC 1
A3	14AWG	Yellow	ACC 2
A4	16AWG	Pink	CRUISE/REV
A5	12AWG	Brown	HEATER
A6	14AWG	Yellow	WIPER
A7	14AWG	Dark Blue	COG LIGHTER
A8	16AWG	White	DOVE LIGHT FWR
A9	14AWG	Green	KEYLESS
A10	10AWG	Orange	SHAVED DOORS
B1	12AWG	Brown	KEY ACC
B2	16AWG	Red	BATT
C1	10AWG	Yellow	IGNITION
D1	14AWG	Dark Green	FAN FWR
D2	16AWG	Grey	GAUGES
D3	16AWG	tan	CHOKE/FUEL
D4	12AWG	Yellow	FAN WIN
D5	12AWG	Red	FAN SEAT
D6	16AWG	Yellow	RADIO ACC
D7	16AWG	White	BRAKE SWITCH
D8	16AWG	Yellow	FLASHER
D9	16AWG	Grey	12V POBT
D10	12AWG	Light Blue	HEAD LIGHT

REAR CHECKLIST

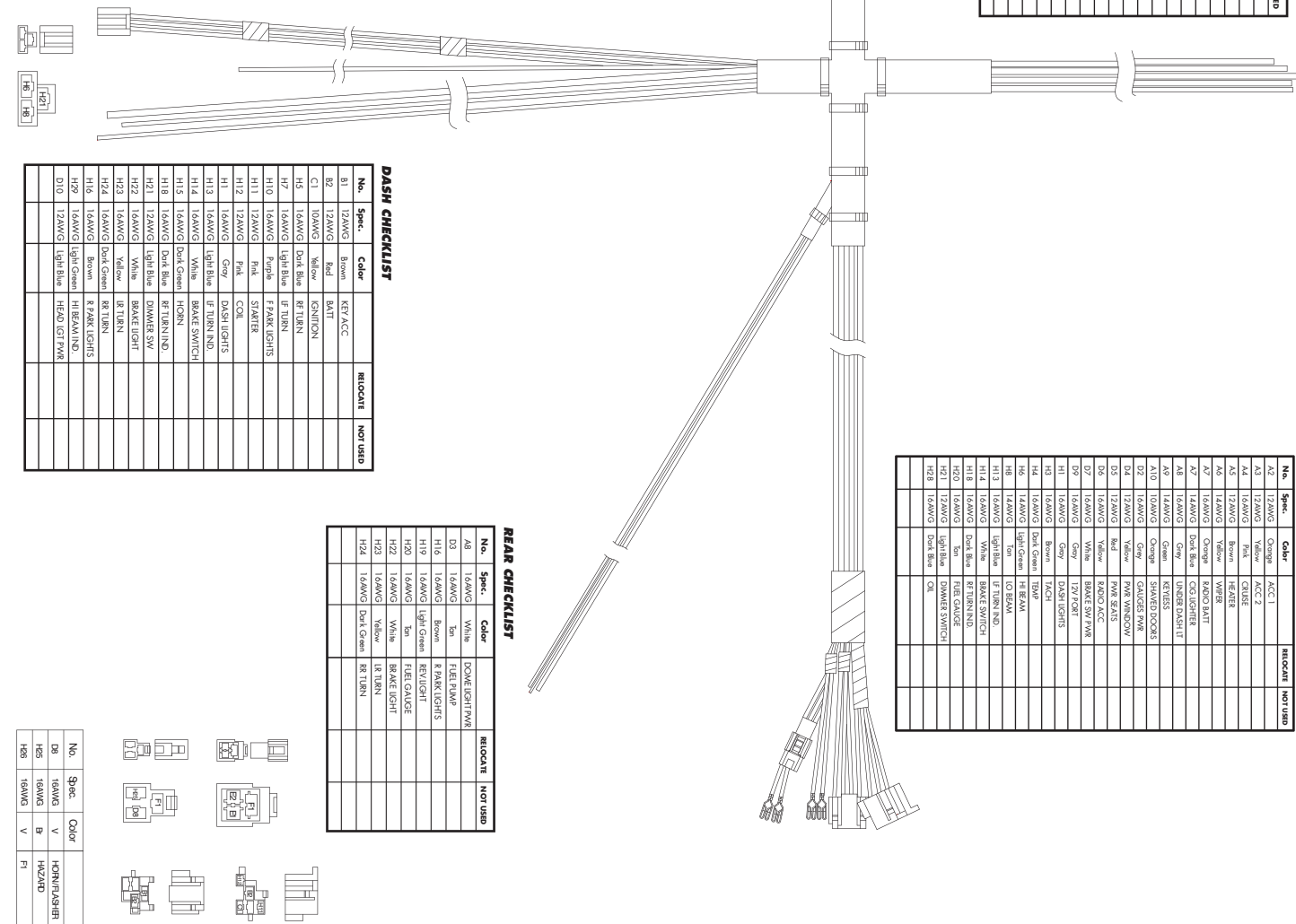
No.	Spec.	Color	RELOCATE	NOT USED
A8	16AWG	White	DOVE LIGHT FWR	
D3	16AWG	tan	FUEL FLOW	
D19	16AWG	Brown	R PARK LIGHTS	
H19	16AWG	Light Green	REV LIGHT	
H20	16AWG	tan	FUEL GAUGE	
H22	16AWG	White	BRAKE LIGHT	
H23	16AWG	Yellow	LE TURN	
H24	16AWG	Dark Green	RF TURN	

DASH CHECKLIST

No.	Spec.	Color	RELOCATE	NOT USED
B1	12AWG	Brown	KEY ACC	
B2	12AWG	Red	BATT	
C1	10AWG	Yellow	IGNITION	
H5	16AWG	Dark Blue	RF TURN	
H7	16AWG	Light Blue	LF TURN	
H10	16AWG	Purple	F PARK LIGHTS	
H11	12AWG	Pink	STARTER	
H12	12AWG	Pink	COIL	
H1	16AWG	Grey	DASH LIGHTS	
H13	16AWG	Light Blue	RF TURN	
H14	16AWG	White	BRAKE SWITCH	
H15	16AWG	Dark Green	HOHN	
H18	16AWG	Dark Blue	RF TURN IND	
H21	12AWG	Light Blue	SWIMMER SW	
H22	16AWG	White	BRAKE LIGHT	
H23	16AWG	Yellow	LE TURN	
H24	16AWG	Dark Green	RF TURN	
H16	16AWG	Brown	R PARK LIGHTS	
H9	16AWG	Light Green	HI BEAM IND	
D10	12AWG	Light Blue	HEAD LIGHT FWR	

No.	Spec.	Color	RELOCATE	NOT USED
H27	16AWG	Red	BATT TO STARTER	
H31	16AWG	Red/Yel	ALT TO STARTER	

No.	Spec.	Color	RELOCATE	NOT USED
D8	16AWG	V	HOHN/FLASHER	
H25	16AWG	B	HEAD	
H26	16AWG	V	F	







**USE THESE EXCELLENT ADD-ON ACCESSORIES TO YOUR WIRE HARNESS SYSTEM**

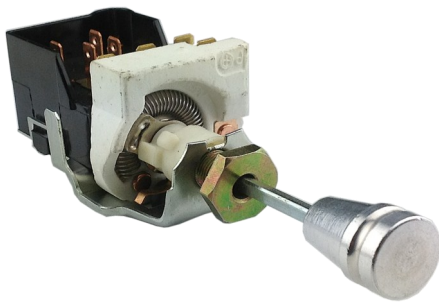
**IGNITION SWITCHES**



**BATTERY RELOCATION KITS**



**HEADLIGHT SWITCHES**



**ALTERNATOR WIRE KITS**



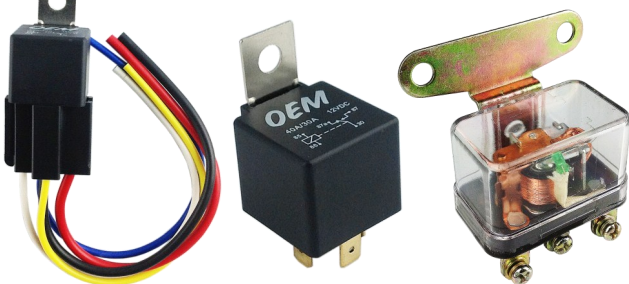
**DIMMER SWITCHES**



**WIRE MANAGEMENT**



**HEAVY DUTY RELAY KITS**



**BATTERY CUT OFF SWITCHES**

