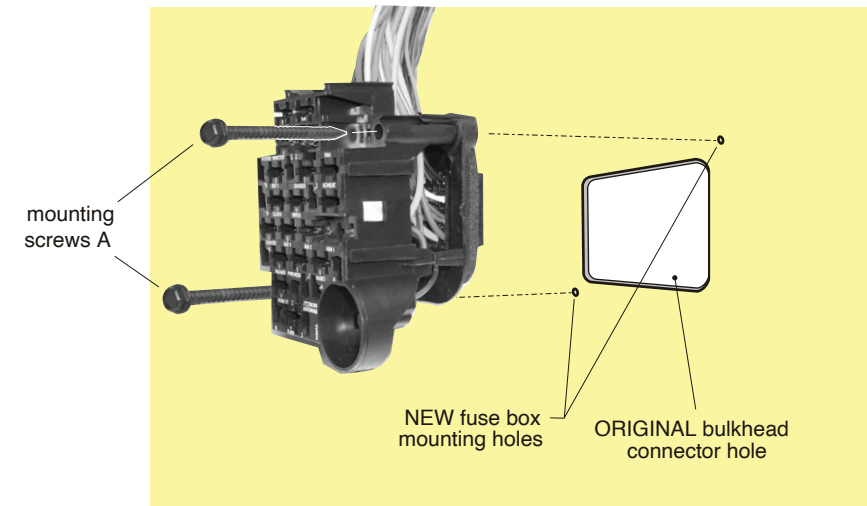


INSTALLING THE FUSE BOX



1. Locate the stock OEM bulkhead hole in the driver side of the firewall. **NOTE:** You will need to modify the firewall of your car by making 2 new mounting holes only. See firewall template 92969921 to help with this operation.
2. Mount the fuse box with the flasher can in the bottom right corner, as shown above.
3. Using the two mounting screws A, attach the fuse panel to the firewall.

Fuse Panel Installation Instructions

Following these simple instructions will guarantee a successful installation of your "NEW" American Autowire fuse panel harness.

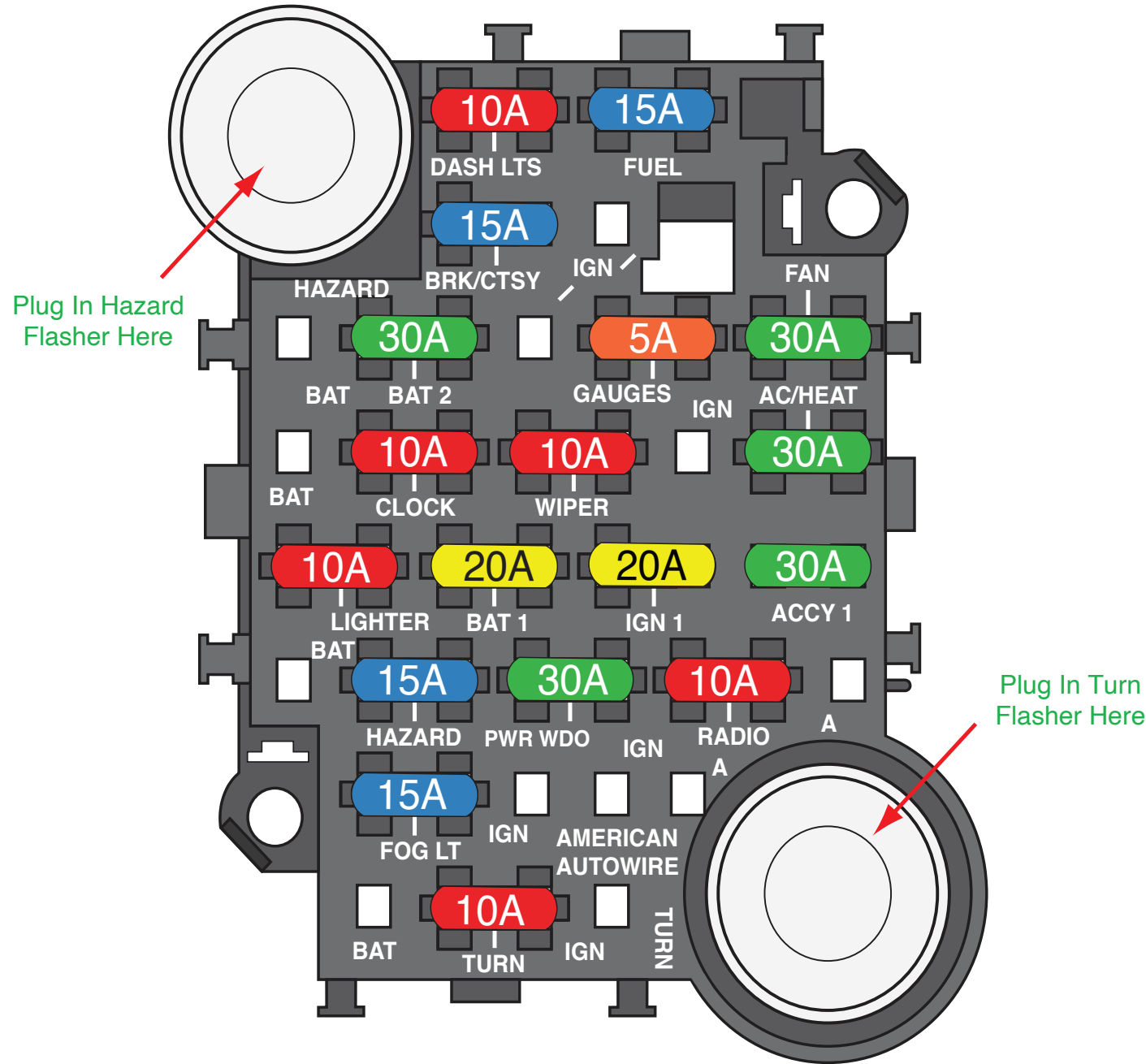
1. Study the diagram above to familiarize yourself with the dash harness assembly.
2. Modify your firewall and install the fuse box (see item #1 below right, and 92969921 template).
3. Route the harness in the original fashion using the factory support straps behind the dash.
4. Make all connections as shown on the following pages of this dash harness kit.
5. Once this dash harness has been installed, continue to bag "H" and install the remaining subkits in order (H, J, K, L, M, etc.)

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1970-74 Cuda & Challenger bag **G**
DASH KIT
510291
92969923 Rev 4.0 06/01/2023

Fuse Block and Bulkhead installation instructions:

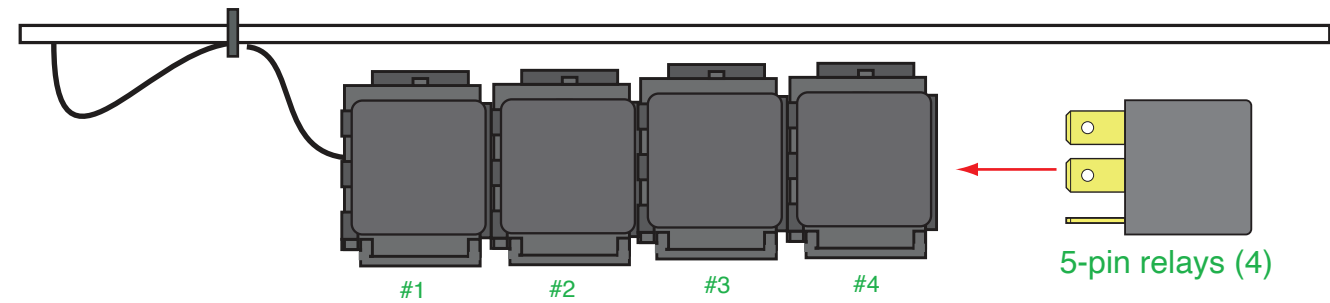
NOTE: Prior to installing the Dash Harness into the vehicle, plug all of the fuses, the turn signal flasher and the hazard flasher into the fuse block as shown below. Also, plug the Horn, Low Beam, High Beam and Fog Lamp Relays into the relay bases.



Assembled fuse block with fuses and flashers installed.

Fuse usage details:

Fuse #	Fuse Block Printing	Fuse Rating	System Wiring Protected
1	DASH LTS	10A	Gauge Cluster Lights, Heater Light, Radio Illumination Feed and optional dash lights plugged into Dash Lamps Candelabra
2	FUEL	15A	Electric fuel pump feed (at Accy 6-way conn), Ignition feed for electric speedo .
3	BRK/CTSY	15A	Stop and third brake lights, under dash courtesy lights, dome light, Rear running lights, Front park lights.
4	BAT 2	30A	Feed to Headlight High and Low Beam Relays
5	GAUGES	5A	Gauges (Temp, Fuel, Oil Pressure Tachometer and Voltmeter), Back-up Lights, Accessory Candelabra Feed.
6	FAN	30A	Accessory Feed for Electric Fan Relay
7	CLOCK	10A	Battery feed for Clock, and Radio
8	WIPER	15A	Wiper Motor, Windshield Washer Pump
9	AC/HEAT	30A	Main Heater or A/C Feed Switch
10	LIGHTER	20A	Cigar Lighter, Battery Candelabra Feed
11	BAT 1	20A	B+ Feed for optional battery powered item. (at Accy 6-way conn)
12	IGN 1	10A	Keyed ignition power feed for optional item. (at Accy 6-way conn).
13	ACCY 1	30A	Keyed accessory powered feed for optional item. (at Accy 6-way conn).
14	HAZARD	15A	Hazard lights
15	PWR WDO	30A	Ignition Feed for options such as power windows (at Accy 6-way conn)
16	RADIO	10A	Keyed accessory feed "on-off" for the radio
17	FOG LT	20A	Fog lamp feed
18	TURN	10A	Turn signal



Fog light bases and relays
(see page 6, item #27)
(These must be plugged in for your headlights,
fog lights and horn to function)



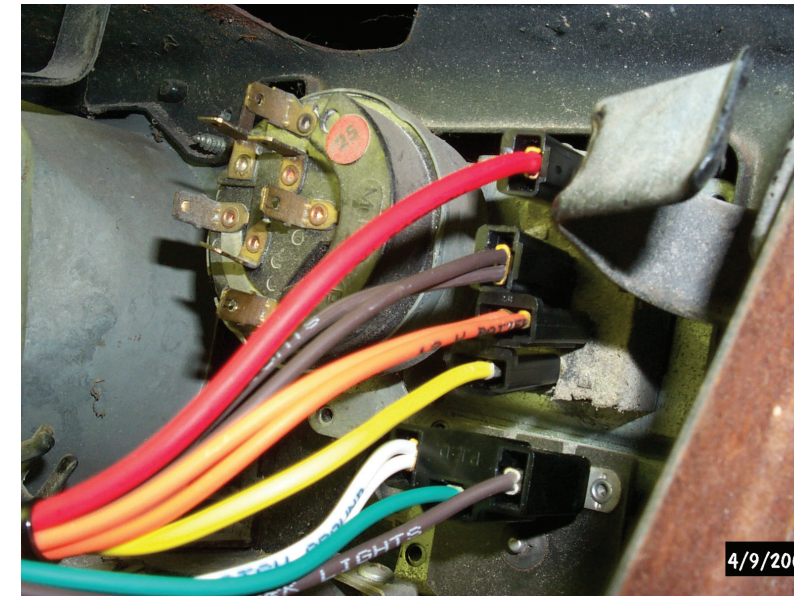
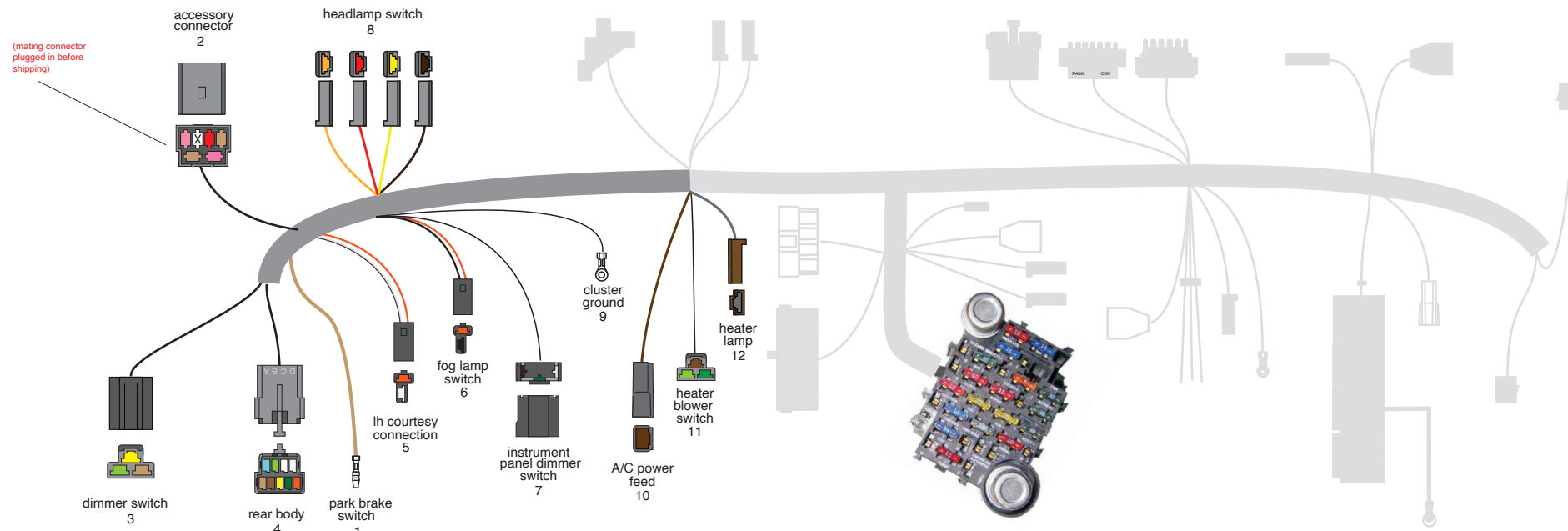


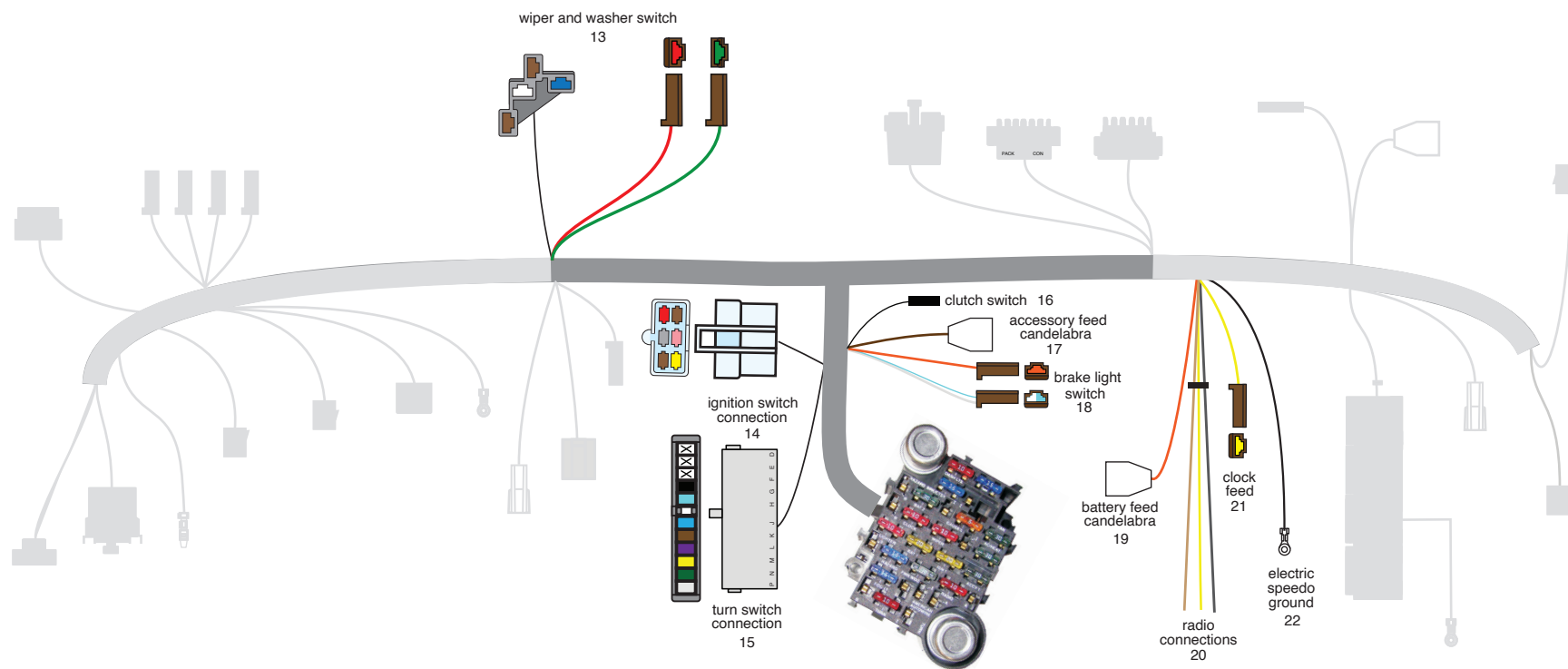
Figure A

- | | | | |
|----|----------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PARK BRAKE | | Connect to the park brake switch. This is the ground circuit for the brake warning switch lamp. |
| 2 | ACCESSORIES | Tan | Ground for parking brake warning lamp |
| | | | Use the provided connector that is plugged into the dash harness along with the loose terminals in the loose piece parts kit to connect power leads for the following: |
| | | <u>Fuse</u> | <u>Rating</u> |
| | | Tan | 15 amp Fused 12 volt IGNITION feed for fuel pump and electric speedometer (may also be used to feed power to another ignition circuit) |
| | | Red | BAT1 20 amp Fused 12 volt BATTERY feed for power door locks (may also be used to feed power to another accessory circuit) |
| | | Pink | IGN1 20 amp Fused 12 volt IGNITION feed for cruise control (may also be used to feed power to another ignition circuit) |
| | | Pink | PWRWDO 30 amp Fused 12 volt IGNITION feed for power windows (may also be used to feed power to another ignition circuit) |
| | | Tan | ACCY1 30 amp Fused 12 volt ACCESSORY feed (may also be used to feed power to an accessory circuit) |
| 3 | DIMMER SWITCH | | This connector will mate to the new floor mounted dimmer switch. |
| | | Yellow | 12 volt feed into dimmer switch from H/L switch |
| | | Light Green | 12 volt feed out to high beam H/L |
| | | Tan | 12 volt feed out to low beam H/L |
| 4 | REAR BODY | | This connector will mate with the connector from the Rear Body harness 510294, bag M. |
| | | Tan | Fuel tank sender lead |
| | | Brown | Tail lamp and tag lamp feed |
| | | Yellow | LH turn / brake feed |
| | | Dark Green | RH turn / brake feed |
| | | Orange | Dome / courtesy lamp feed |
| | | White | Dome / courtesy lamp ground |
| | | Light Green | Back up lamp feed |
| | | Light Blue | Third brake light |
| 5 | LH COURTESY LAMP | | Plug this connector into the mating LH courtesy lamp assembly from 510296, bag N. |
| | | Orange | 12 volt battery fused feed |
| | | White | Courtesy lamp switched ground |
| 6 | FOG / DRIVING LAMP | | Plug this connector onto your fog / driving lamp switch if your car is equipped with this option. |
| | | Orange | 12 volt battery fused feed |
| | | Black | 12 volt switched feed to bulkhead connector |
| 7 | PANEL DIMMER SW. | | This connection will plug onto your instrument panel lamp dimmer switch. |
| | | Brown | Fused 12 volt feed from the headlight switch connection #8 to the panel dimmer switch for instrument panel lamps |
| | | Dark Green | Dash lamp output to fuse panel |
| | | White | Dome / Courtesy ground |
| 8 | HEADLIGHT SWITCH | | NOTE: The original connector for this branch is not available. Individual connections for this switch have been provided and will install and work well. See detail photo Figure A at the top of this instruction page for the proper orientation of the individual connectors. |
| | | Red | Battery unfused 12 volt input lead to switch for headlamps |
| | | Orange | Secondary battery fused 12 volt input lead to switch for park / tail lamp output and dash lamp input |
| | | Brown | Park/tail lamp output and 12 volt output to panel dimmer for dash lamps |
| | | Yellow | 12 volt output lead to dimmer switch for headlamps |
| 9 | CLUSTER GROUND | | Connect to the dash frame, steering column saddle, or any other good known chassis ground. |
| | | Black | Instrument cluster ground wire |
| 10 | AFTERMARKET AC POWER | | This is the keyed 12 volt feed for your aftermarket installed A/C system. |
| | | Black | 12 volt accessory fused feed for aftermarket A/C power. |
| 11 | HEATER SWITCH | | Plug this connector onto your stock heater control switch. This harness does not support the use of a factory installed A/C system. |
| | | Brown | 12 volt accessory fused feed for heater power. |
| | | Lt Green | To heater resistor |
| | | Dk Green | To heater resistor |
| 12 | HEATER CONTROL LAMP | | Plug your stock heater control lamp pigtail (not supplied with this kit) into this connector. |
| | | Gray | Heater control dash lamp feed |

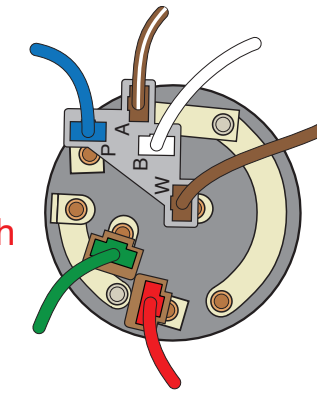


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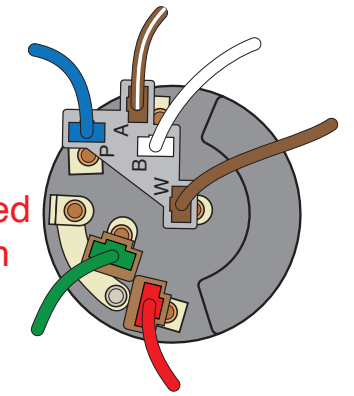




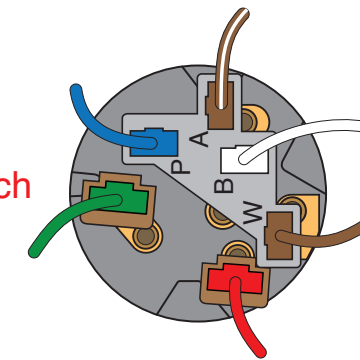
1970-71
2-speed
wiper switch



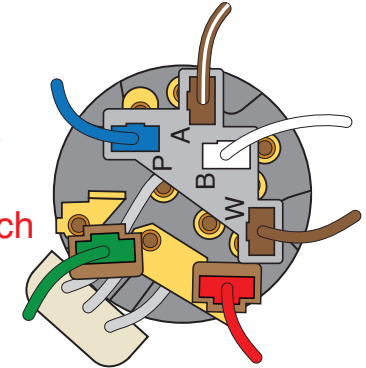
1970-71
variable-speed
wiper switch



1972-74
2-speed
wiper switch



1972-74
3-speed
wiper switch



- 13 WIPER SWITCH** The three connectors on this dash harness will mate directly to your original wiper/washer switch (see the four wiper switch connection images on this page for your application).
- Brown/White Armature feed from Wiper Switch to Wiper Motor.
 - Dk Blue Park feed from the Wiper Switch to the Wiper Motor.
 - Brown Wiper Switch to the electric Washer Pump Motor.
 - White 12V feed from Fuse Block to Wiper Switch.
 - Dk Green Motor Field #1 feed from the Wiper Switch to the Wiper Motor.
 - Red Motor Field #2 feed from the Wiper Switch to the Wiper Motor.

- 14 IGNITION SWITCH** Instructions are provided for stock MOPAR ignition switches & aftermarket GM style column-mounted ignition switches. See Figure D (MOPAR columns) or Figure E (GM Style columns) on page 5. **NOTE:** The original MOPAR ignition switch connector and wire pigtail must be cut from the original harness and re-used in MOPAR switch applications. Mating terminals A & connector B are provided in the loose piece parts kit for this dash harness, 510291, bag G. For GM style column-mounted ignition switches you will need to purchase connector kit 510941, available separately to complete the ignition switch connection.

- 15 TURN SIGNAL SWITCH** The connector on this dash harness will mate directly to the 3 7/8" turn signal switch used by GM and many other aftermarket steering column manufacturers. For this type of switch, you can simply plug this connector into your turn signal switch connector. If you are using a stock 1970-74 MOPAR column and turn signal switch, an adapter and terminals have been provided to you with this kit. They can be found in the loose piece kit of this dash harness, 510291, bag G. Please refer to page 5, Figure F, for the proper wire mating configurations. Cut the connector off of your original turn signal switch lead, install terminals C on each wire and plug those wires into connector D as shown in Figure F on page 5. Plug this new connection onto connector 15 from above to complete your turn signal switch circuitry.
- White 12 volt feed from brake switch
 - Dark Green RH rear stop and turn
 - Yellow LH rear stop and turn
 - Purple 12 volt ignition feed from turn signal flasher
 - Brown 12 volt battery feed from hazard flasher
 - Dark Blue RH front turn
 - Light Blue LH front turn
 - Black Horn relay ground to horn switch

- 16 CLUTCH SWITCH** If your car has a manual transmission, this is the clutch operated ground leg for the starter relay. Plug the bullet terminal from your clutch switch into this connection to complete this circuit.
- Black Ground from clutch switch to bulkhead connector for starter relay (manual trans cars only)

- 17 ACCY CANDELABRA** Brown This is a stock style fused accessory power plug. It can be used for various stock accessory powered items. Use the bullet terminals provided in the loose piece kit of this dash harness, 510291, bag G to make a connection into this power plug assembly by crimping the terminal onto any accessory powered wire, then plugging the completed wire into this rubber molded 3 way connector.

- 18 BRAKE LIGHT SWITCH** Plug two connectors in to your stock brake light switch. The wire colors and functions are as follows:
- Orange 12 volt fused battery feed to stop lamp switch
 - White 12 volt out to turn signal switch
 - Light Blue 12 volt out to third brake lamp

- 19 BATTERY CANDELABRA** Orange This is a stock style fused battery power plug. It can be used for various stock 12 volt battery powered items. Use the bullet terminals provided in the loose piece kit of this dash harness, 510291, bag G to make connection into this power plug assembly by crimping the terminal onto any battery powered wire, then plugging the completed wire into this rubber molded 3 way connector.

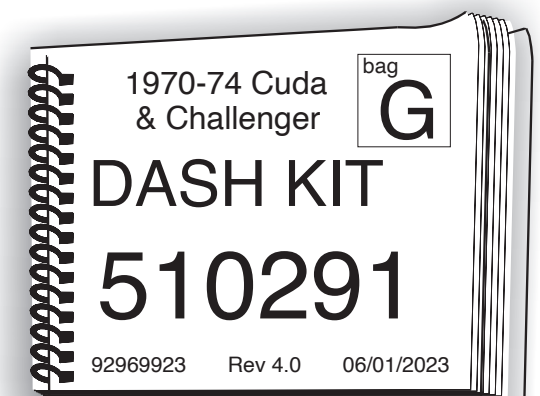
- 20 RADIO CONNECTIONS**
- Tan 12 volt accessory power feed to radio ("ON" and "OFF")
 - Yellow 12 volt fused battery feed for clock and memory
 - Gray Radio lamp wire for stock 1970-1974 radio applications

- 21 CLOCK FEED** Yellow 12 volt fused battery feed for an in-dash clock

- 22 SPEEDOMETER GROUND** Connect to the dash frame, steering column pedal saddle, or any other good known chassis ground. (DO NOT attach this together with item #9 from Page 3. They may be grounded to the same surface or area, just not under the same screw or bolt).
- Black Electric speedometer ground

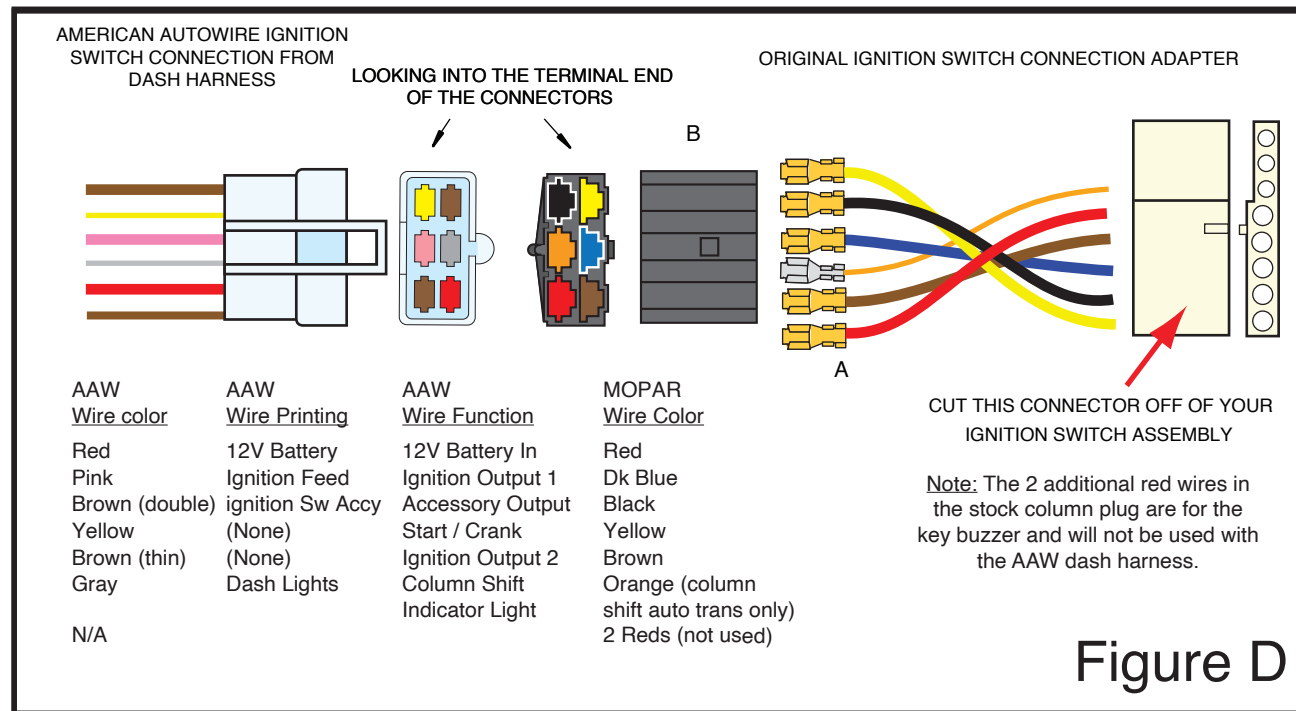


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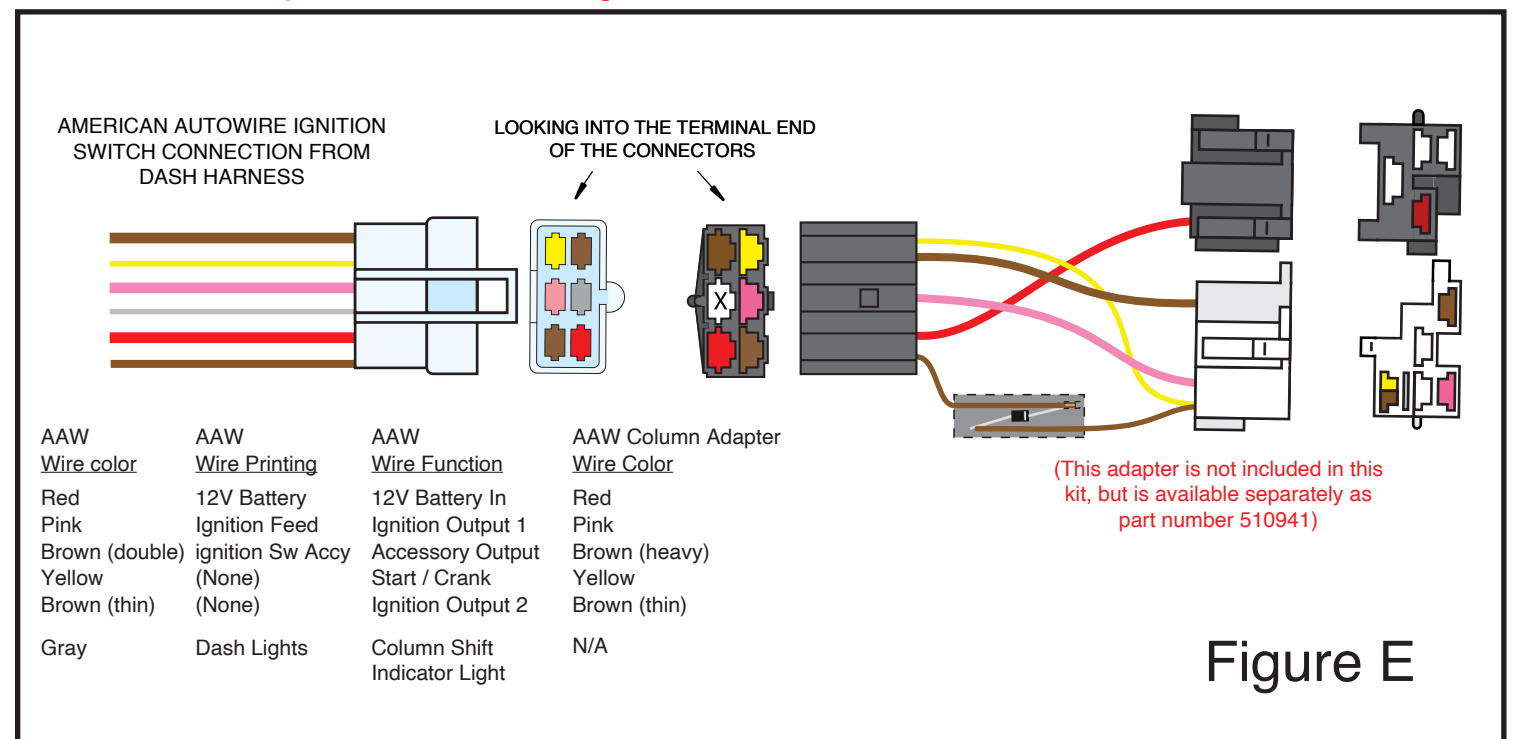


Ignition Switch Connections:

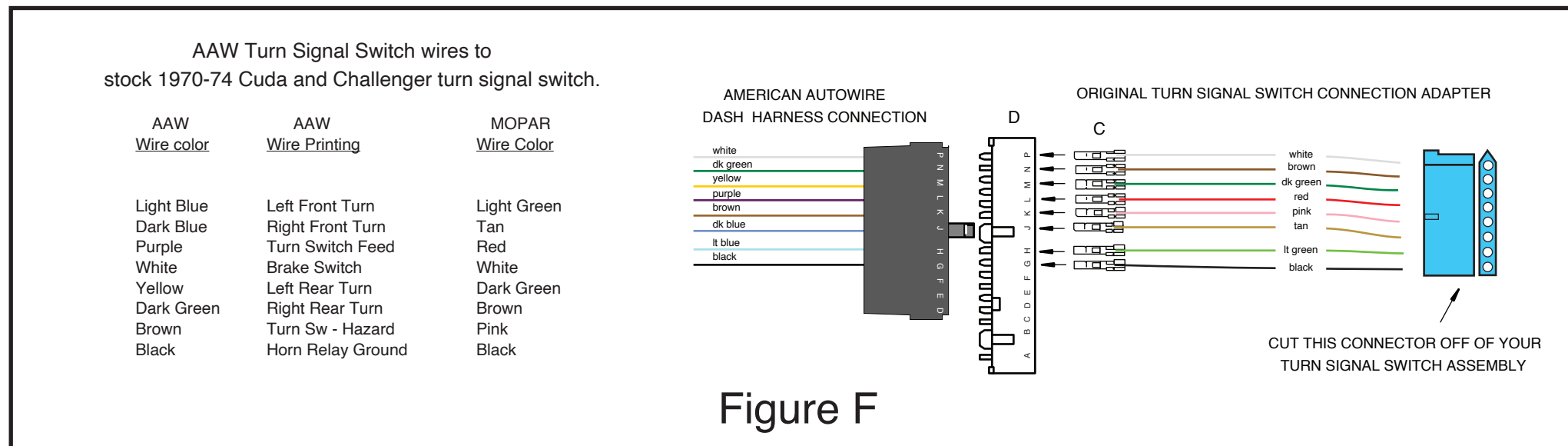
Factory MOPAR Column Ignition Switch Connection

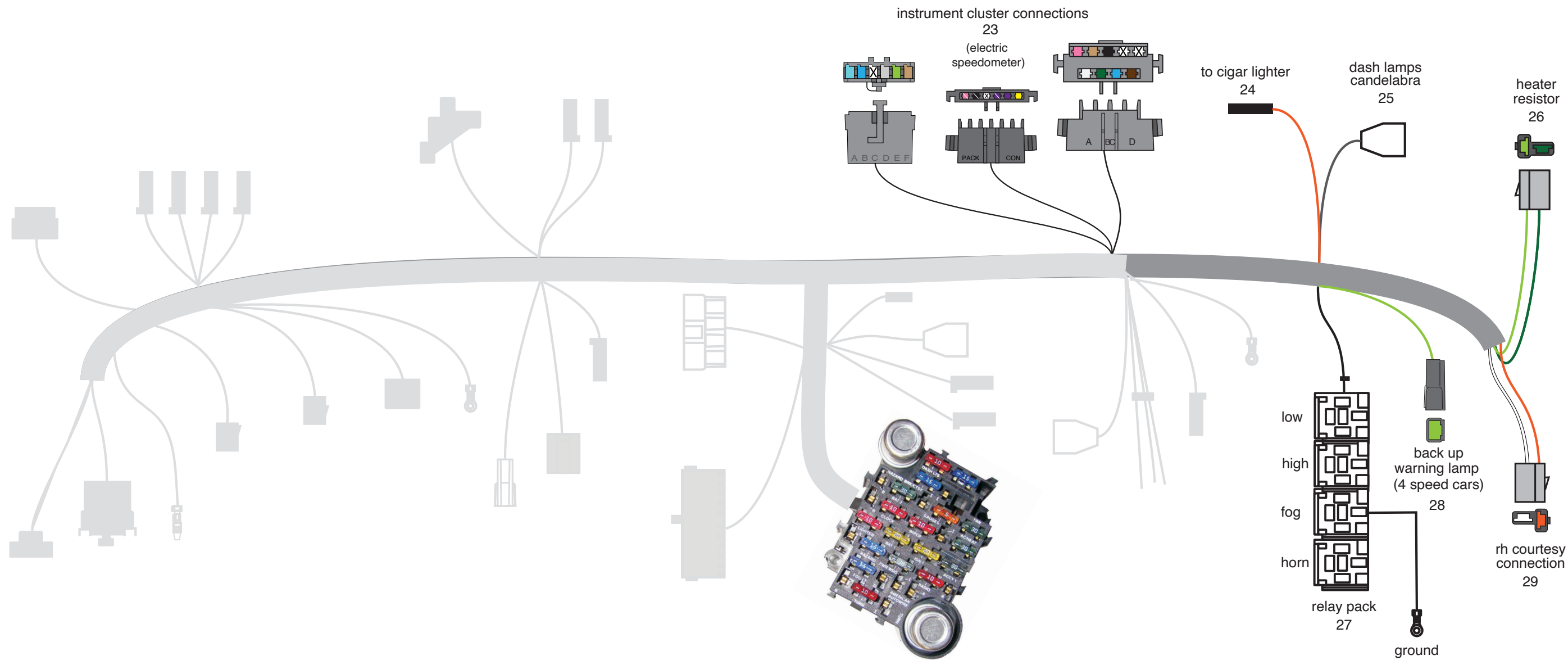


Aftermarket GM Style Column-Mounted Ignition Switch Connection



Turn Signal Switch Connections:





- | | | | |
|----|-------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23 | INSTRUMENT CLUSTER DISCONNECT | | These connectors will plug into the Instrument Cluster Harness, 510295, bag H. Circuit identifications for this branch are described in those instructions. |
| 24 | CIGAR LIGHTER | Orange | 12 volt fused battery feed to lighter |
| 25 | DASH LAMPS CANDELABRA | Gray | This is a stock style fused dash lamps power plug. It will be used to plug in any dash illumination lamps. Use the bullet terminals provided in the loose piece kit of this dash harness, 510291, bag G to make a connection into this power plug assembly by crimping the terminal onto any dash lamp wire, then plugging the completed wire into this rubber molded 3-way connector. |
| 26 | HEATER RESISTOR | | (Used on stock non-A/C equipped cars only!) Plug this connector onto the stock heater resistor located on the stock heater box inside the car under the dash. |
| 27 | 4 WAY RELAY PACK | Lt Green
Dk Green | From heater switch
From heater switch
NOTE: The 4 gang relay panel is directly wired and requires no additional wiring. The only connection required is to attach the relay ground wire to a good chassis ground. Two relays control the headlight low beam and high beam circuits allowing for the use of high powered halogen lamps without creating an extra load on the factory headlamp and dimmer switches. A third relay controls the fog or driving lamp circuit and automatically shuts the fog or driving lamps off whenever the high beam lamps are applied in accordance with 50 state Federal law. The last relay is for your horn circuit. |
| 28 | BACK UP WARNING LAMP | | This feed is used on manual transmission cars only. It is the feed to the dash mounted "back up" warning lamp mounted over in the glove box area of the dash assembly. |
| 29 | RH COURTESY LAMP | Light Green
Orange
White | 12 volt feed out to dash mounted back up warning lamp
Plug this connector into the mating RH courtesy lamp assembly from 510296, bag N.
12 volt battery fused feed
Courtesy lamp switched ground |

