

www.americanautowire.com 856-933-0801











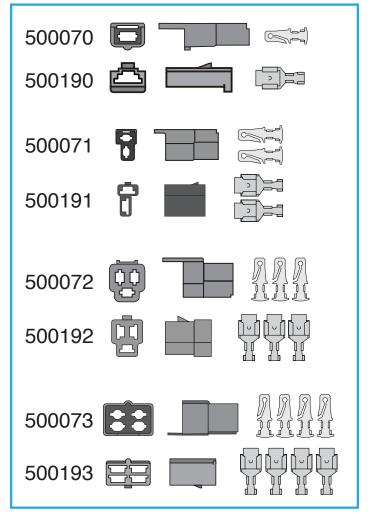
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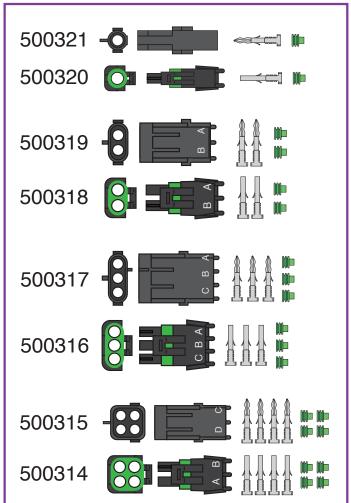
OPTIONAL Add-On Equipment:

The connectors, sockets, wires, terminals and tools, shown on this page, are just a small sample of the many accessories that are available, to help with your installation, from the American Autowire Catalog.

UNSEALED CONNECTORS



SEALED WEATHER PACK **CONNECTORS**



510152 - 510157

Split Braid

Wiring Harness Wrapping



500723 Battery Trunk Mount Kit, Top Post (pictured)



500724 Battery Trunk Mount Kit, Side Post

500093

Weatherproof

Universal

Relay Kit



500665 **Battery Crimping** Star Tool (this tool is included, in the four Battery Kits shown)



500726 Battery Under Hood Mount Kit, Side Post (pictured)

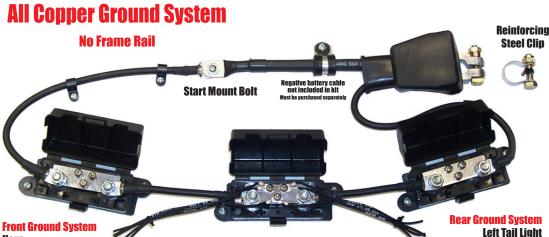
500725 **Battery Under Hood** Mount Kit, Top Post



500875 Alternator Connection Kit -High Amp Output









License Plate Light Fuel Pumn

Right Tail Light

Gas Tank

500717 Full Vehicle Grounding Kit

LAMP SOCKETS - PLASTIC

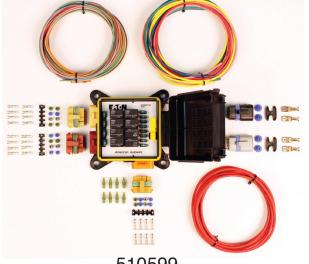
LAMP SOCKETS - METAL

500157

36050







510599 Severe Duty Relay Box



Courtesy Light Connection Kit



500081



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START HERE!

PLEASE READ THIS BEFORE STARTING INSTALLATION!

This wiring kit is designed for ease of installation. Please read the guidelines below, BEFORE STARTING your installation, to guarantee a successful job. Use an appropriate crimping tool, which folds the wings of the open barrell terminals down into the wire, as shown on this page. If you use our crimping tools and correctly crimp the included terminals, soldering is not necessary. If you are unsure about a particular crimp, soldering is recommended. Our factory crimped terminations are installed by GM approved five ton presses, and soldering these terminations is not necessary.



AAW offers a great terminal crimping video entitled "Proper Crimping Video". It can be viewed by visiting YouTube.

Type the following address into your web browser, to go directly to the video: https://w-ww.youtube.com/watch?v=JAgEDoVI-co

Youtube Channel: www.youtube.com/user/WiringHarness



The terminals that we supply in our kits, utilize what is known as an F crimp. The F crimp, in a cross section, will look like the illustration below, when done correctly.







wire core

end view of un-crimped terminal

proper crimp of terminal

We carry the following crimping hand tools, to help with your terminal crimping. These hand tools are available, for purchase or rental.

AAW p/n 510585
OEM small terminal crimping tool (18-14 gauge)



AAW p/n 510586
OEM large terminal crimping tool (12-8 gauge)







STEP 1: DISCONNECT YOUR BATTERY:

Disconnect the battery, before installing the wiring kit, to prevent any accidental shorting caused by loose bare wire ends.



If you have any questions concerning this or any of our products, please feel free to call us at 1-856-933-0801.

STEP 2: START INSTALLING KIT:

This kit is broken down into individual sections, that are identified by a letter printed on the enclosed sheets, visible through each bag. The order of installation and the pages with their installation instructions, are shown below:

Table of Contents:

Bags: Pages: Sections:

A 5. 6 **Power Subkit - This harness contains:**

- Starter solenoid connections. Ignition switch connections.
- Main Circuit Breaker connections. Alternator connections.
- Neutral safety switch connections. Battery connections.

B 7 - 13 Main Subkit - This Harness contains:

- Wiper Feed. Heater/AC Feed.
- Headlight Switch Feed. Horn Feed.
- Gauge Feed.Clock Feed.Brake Light Switch Feed.
- Clock Feed. Brake Light Switch Feed. Turn Signal/Hazard Light Feed.
- Miscellaneous Ignition Feeds.

C 12, 13 Headlight Kit - This Harness contains:

- Headlight Switch.

- Courtesy Light connections.

- Headlight connections.

- Dimmer Switch.
- Parking Light connections.

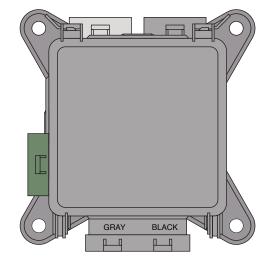
D 10, 11 Turn Signal Kit - This Harness contains:

- Turn Signal connections.
- Third Brake Light connection.
- Brake Switch connection. Turn Signal Indicator connections.

E 14 Gauge Kit - This Harness contains:

- Gauge connections for aftermarket gauges.
- Electronic Speedometer connections.
- Indicator Lights connections.

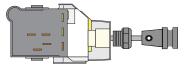




Severe Duty Fuse Box



Circuit Breaker



Headlight Switch



Dimmer Switch



MAIN SUBKIT
Severe Duty Universal
Kit

510561

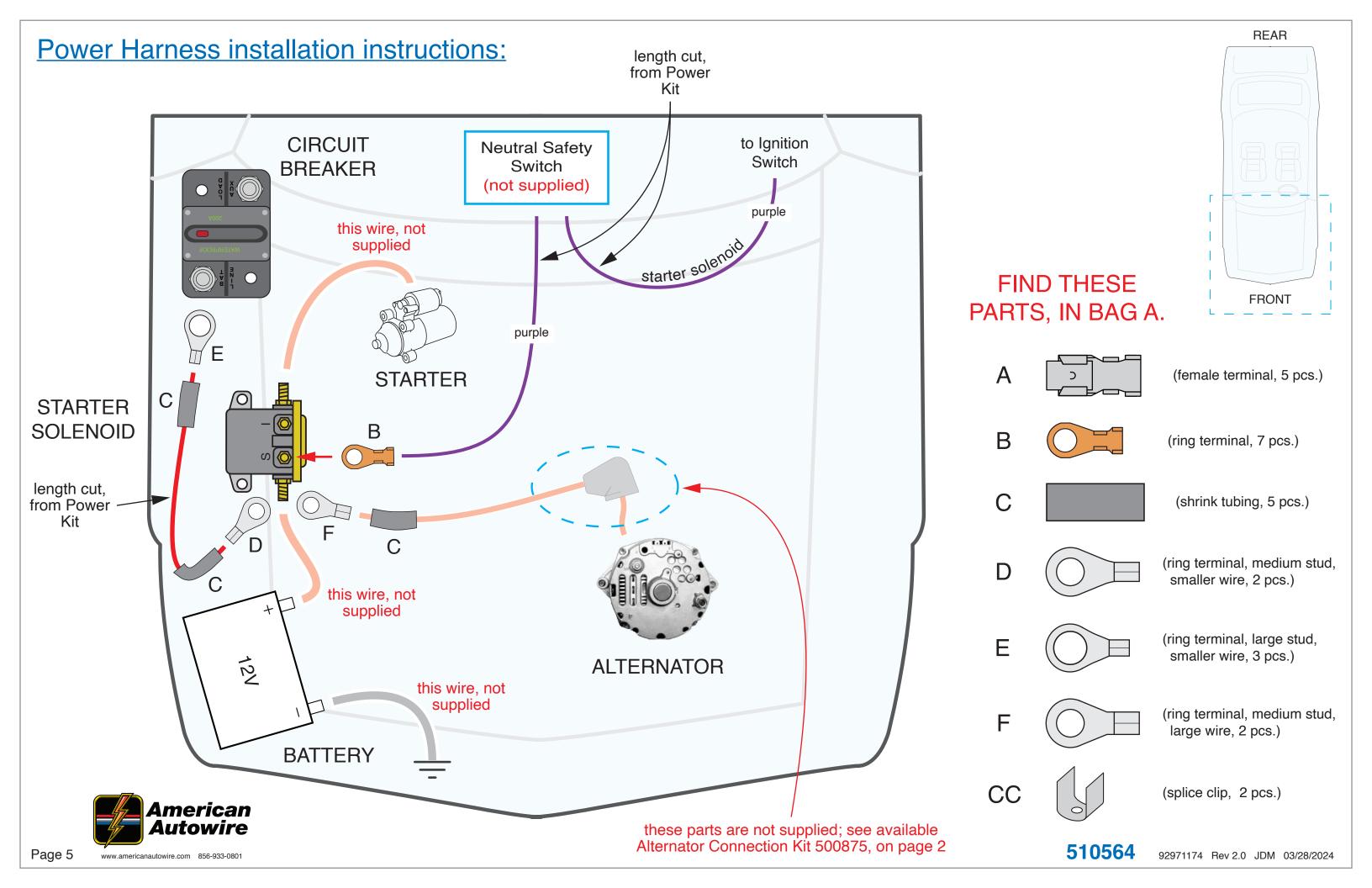
HEADLIGHT KIT
Severe Duty Universal
Kit

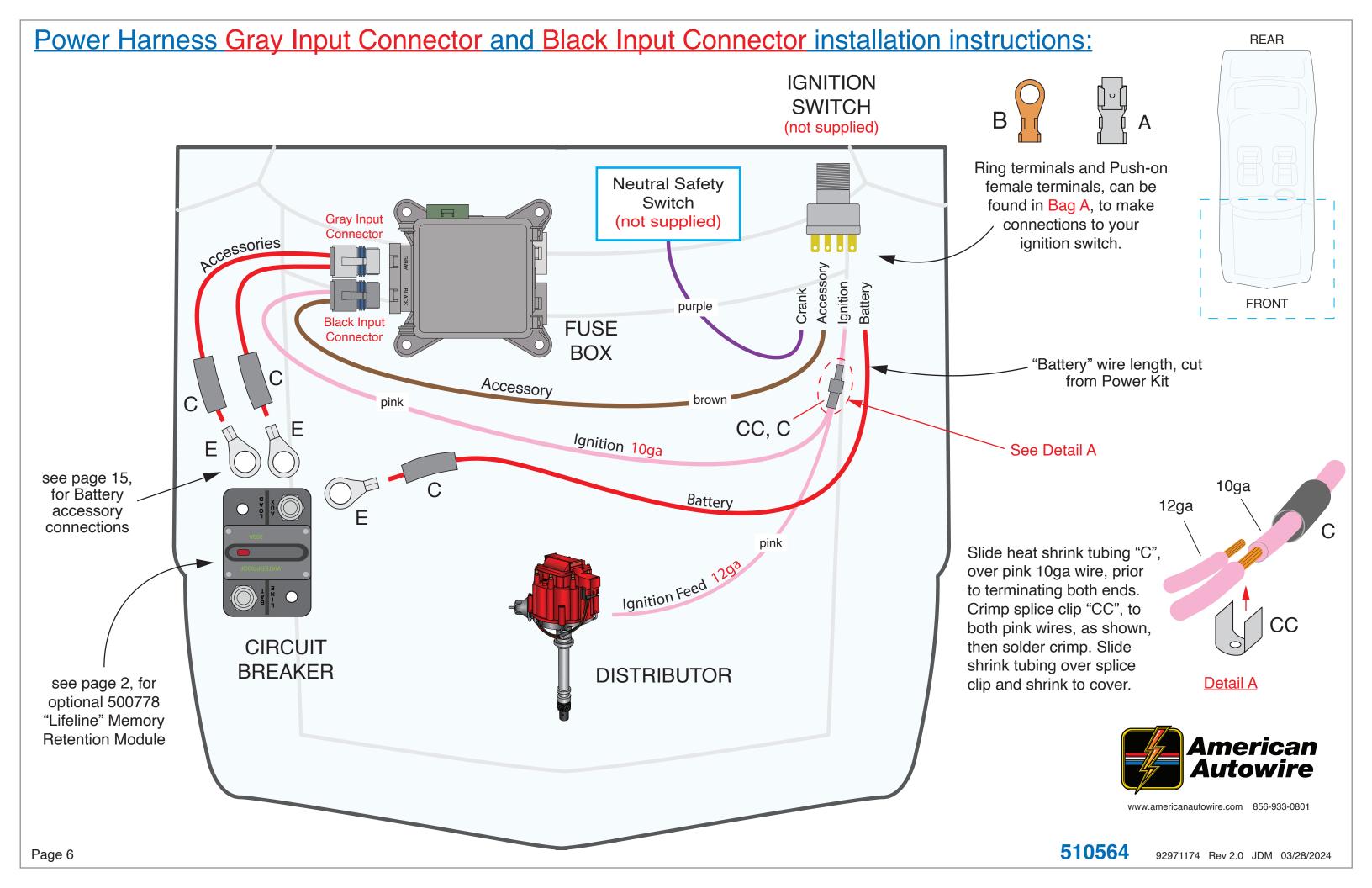
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Main Harness - Gray Output Connector installation instructions: l F R E A RO American | N Wiring-end view of **Autowire Gray Output Connector** www.americanautowire.com 856-933-0801 FIND THIS PART, IN BAG B. "12v Ignition" wire G to Gauge Cluster (F19) **Gray Output** Connector **HEADLIGHT** Wiper F **SWITCH** 12v Battery Н orange K FIND THESE PARTS, IN BAG C. 12v Battery Fused Η 12v Ignition (Headlight, Parking Light Harness; Reference) **GAUGE** (headlight switch, 1 pc.) **CLUSTER WIPERS** (female terminal, large 3, pc.) (female terminal, small,3 pc.) see page 14, for Gauge connections

Page 7

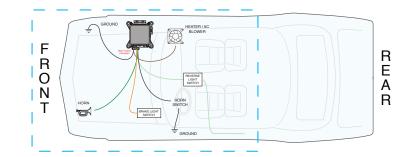
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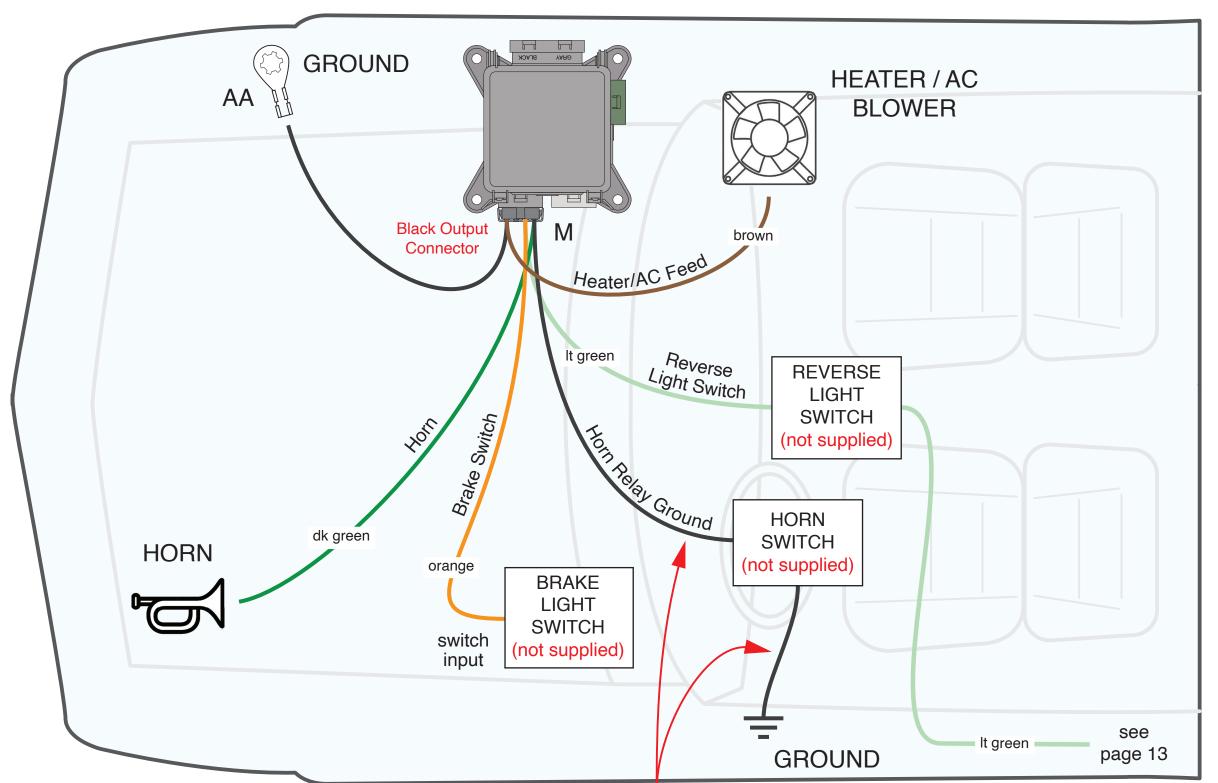
Main Harness - Gray Output Connector installation instructions: | F | R | O | N | T A R Wiring-end view of **Gray Output Connector** (F16) "12v Ignition" wires to Fan Relays, Lighting Relays, Speedometer power, Electronic Controllers, etc. (F20) Gray Output Connector G CLOCK tan Radio **RADIO** Fan Relays, Lighting Relays, Speedometer power (see page 15), Electronic Controllers, etc. American



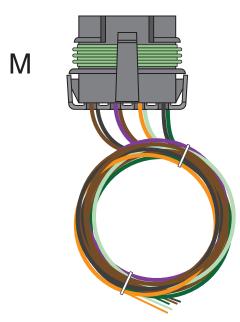
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Main Harness - Black Output Connector installation instructions:

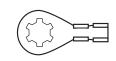




FIND THESE PARTS, IN BAG B.







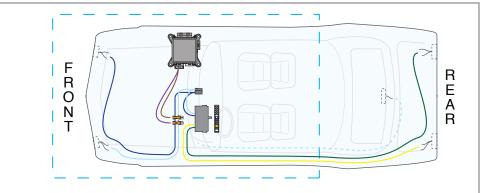
(ring terminal, internal tooth, 2 pcs.)



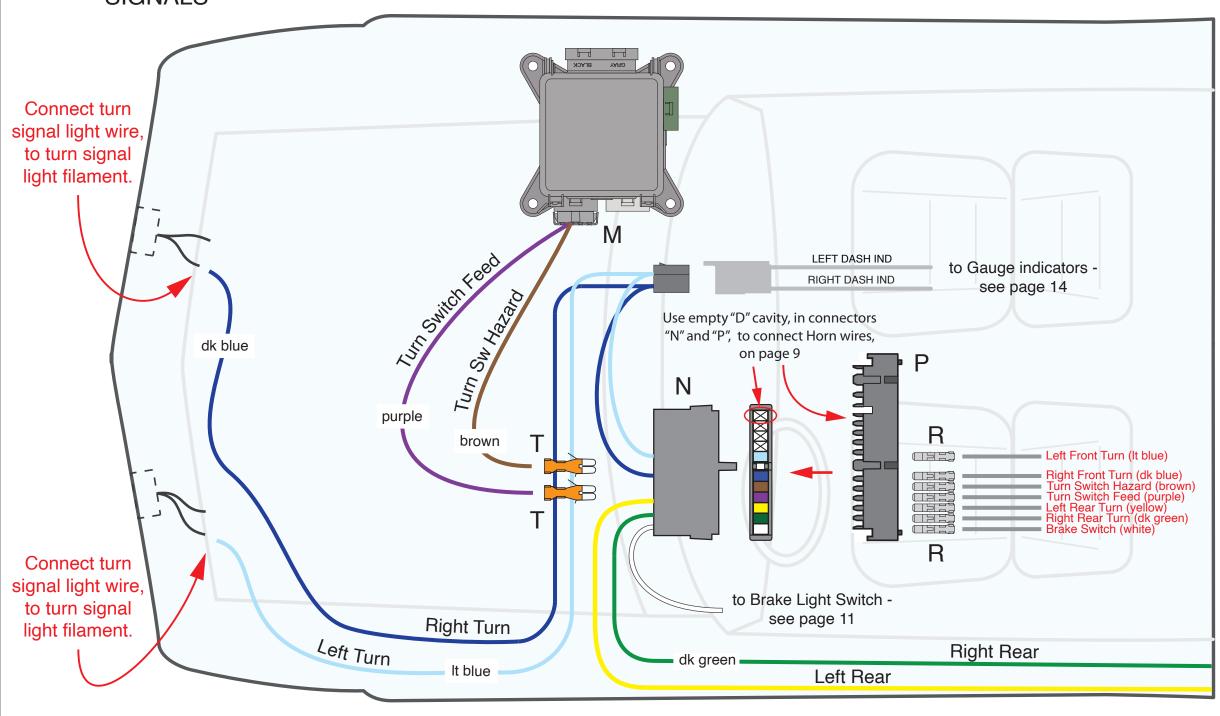
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You can pass these wires, through connectors "N" and "P", on page 10.

Turn Signal Harness installation instructions:



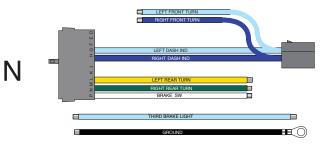




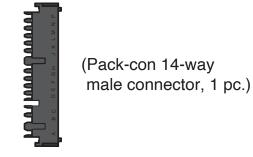
STEERING COLUMN

and DASH

FIND THESE PARTS, IN BAG D.



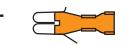
(Turn Signal Harness; Reference)





P

(Pack-con male terminal, 10 pcs.)



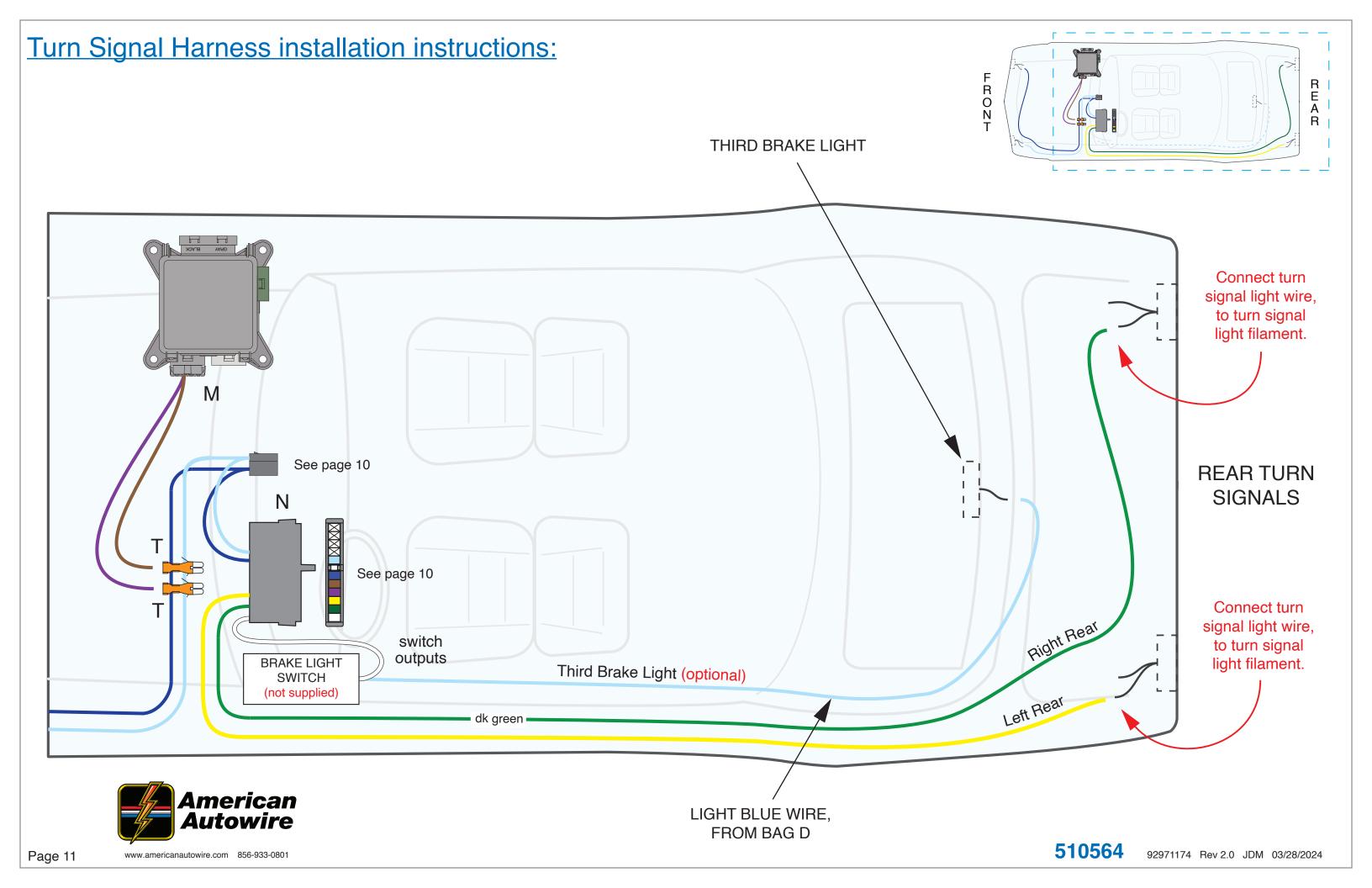
(Pack-con female terminal, 6 pcs.)



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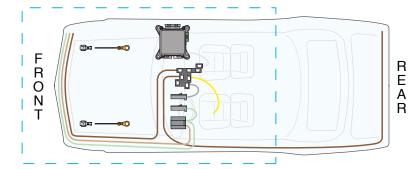
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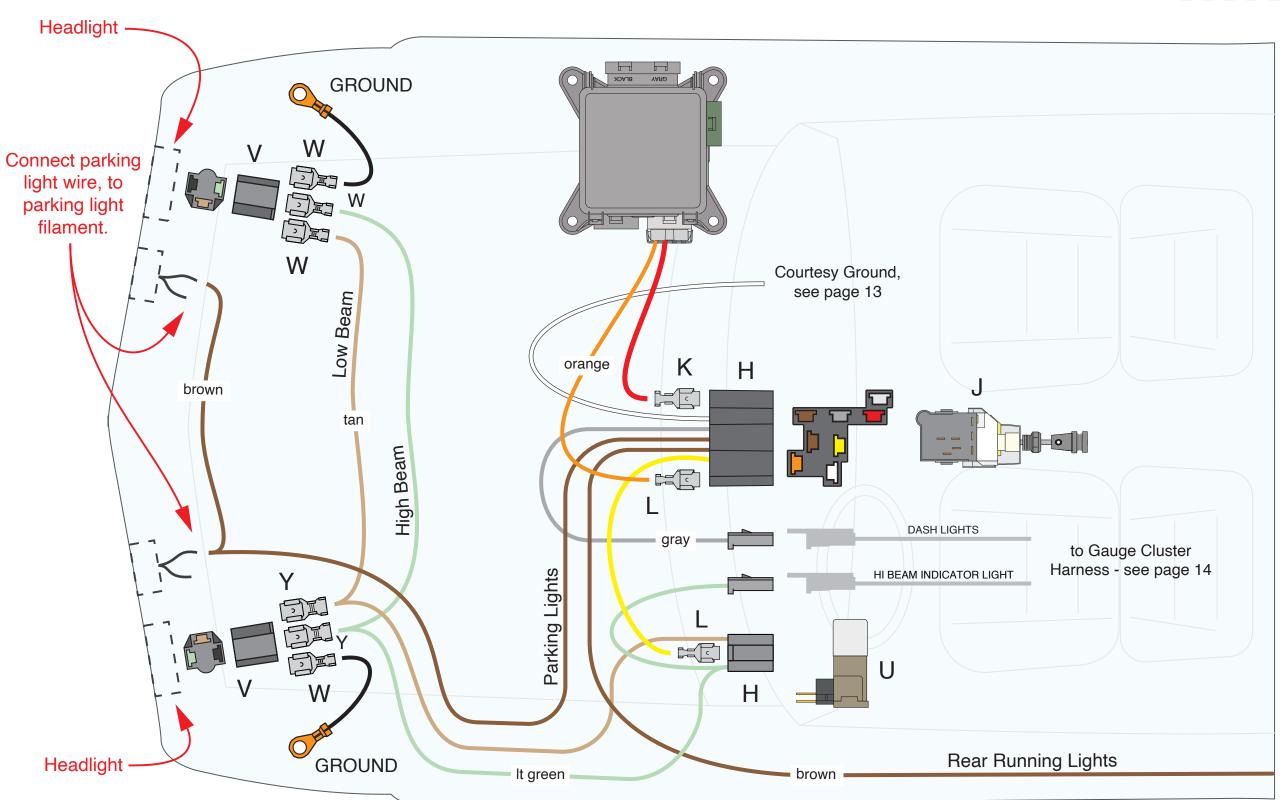


Headlight Harness installation instructions:

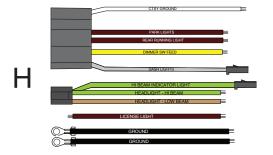


HEADLIGHTS and FRONT PARKING LIGHTS





FIND THESE PARTS, IN BAG C.



(Headlight, Parking Light Harness; Reference)

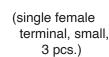


(headlight switch, 1 pc.)





(single female terminal, large, 2 pc.)







(dimmer switch, 1 pc.)

(3-way female connector, 2 pcs.)





Y

(single female terminal, 6 pcs.)

(double female terminal, 2 pcs.)

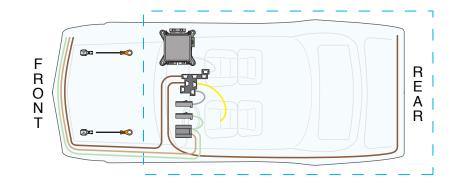
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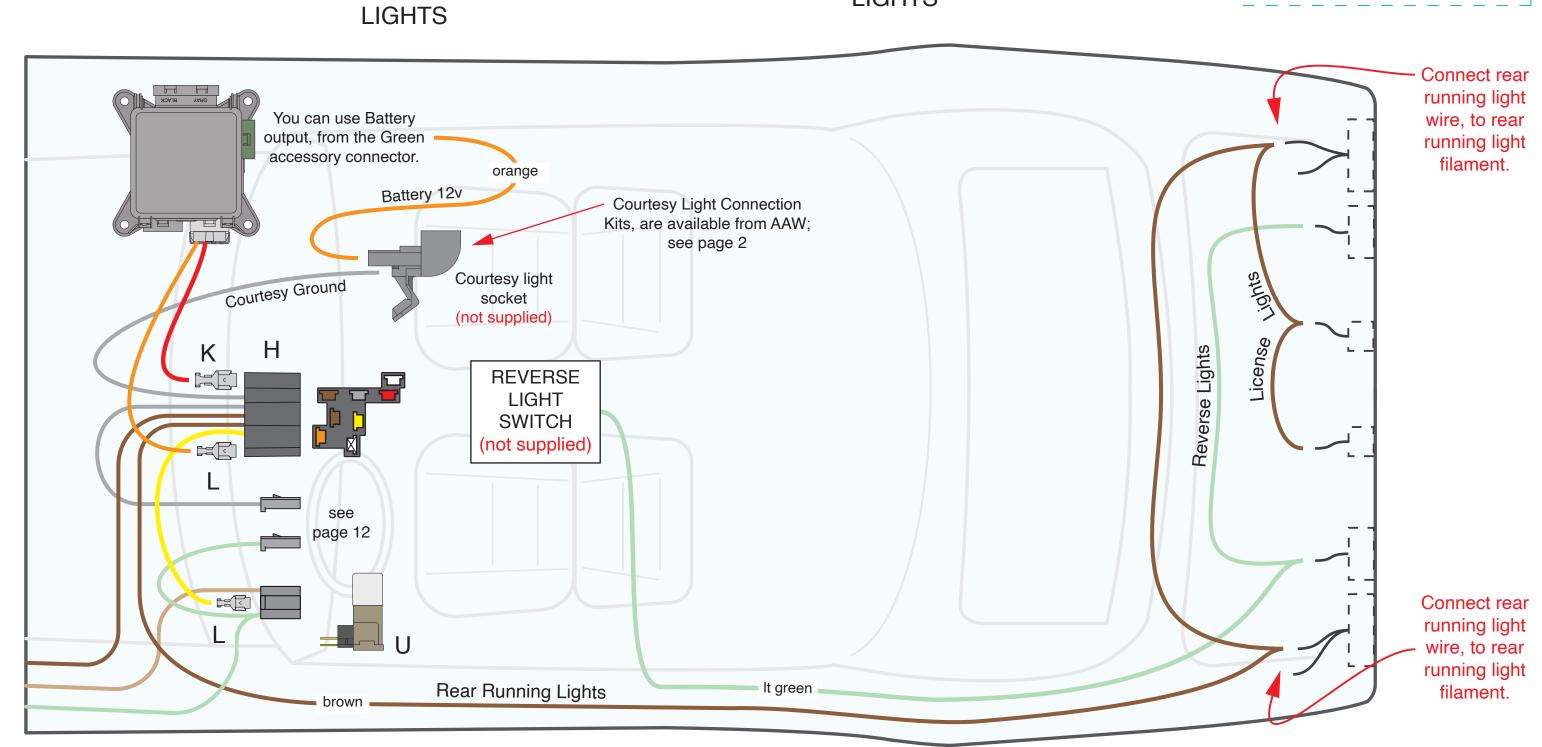
Headlight Harness installation instructions:

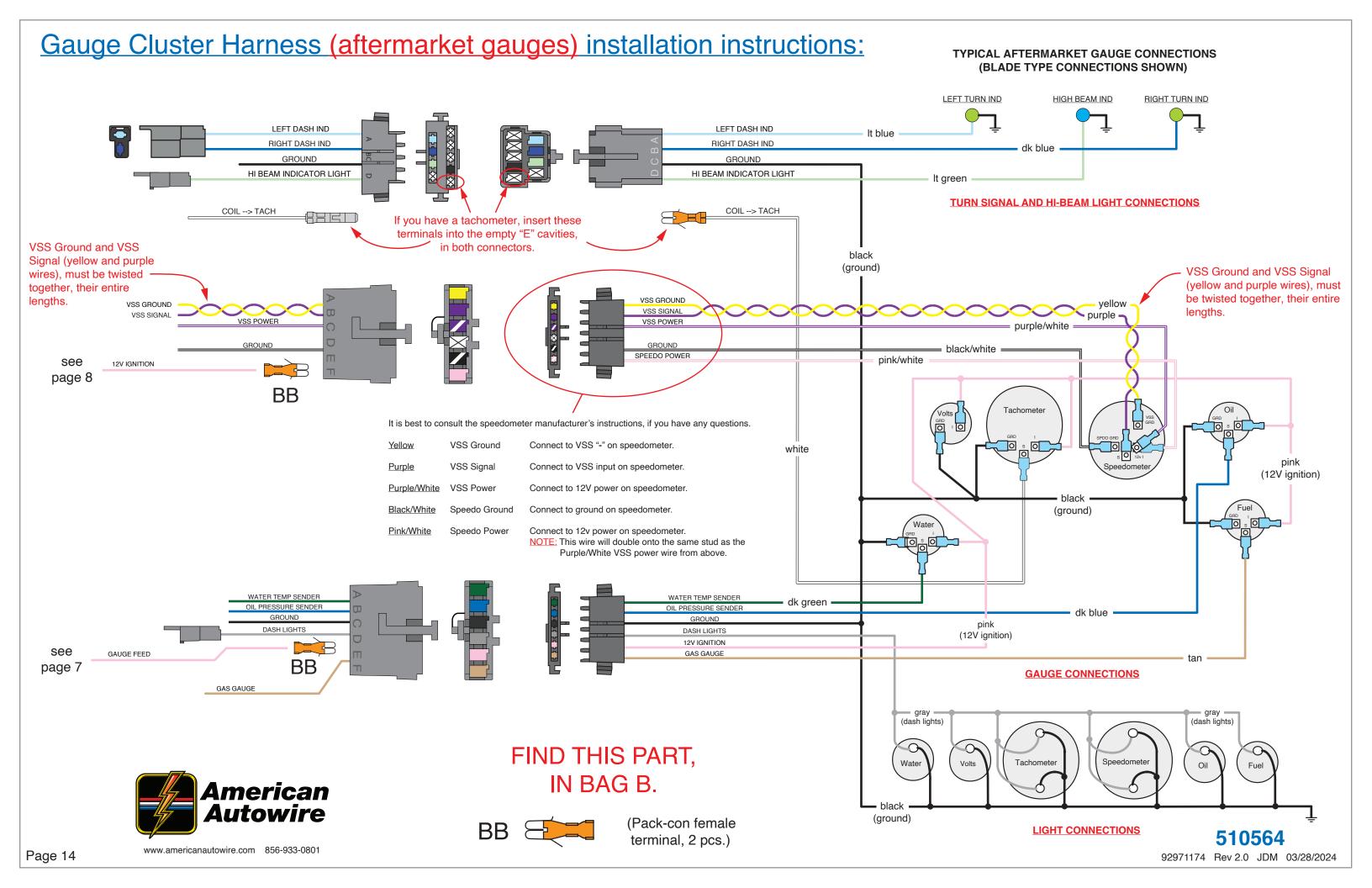


COURTESY

REAR RUNNING, REVERSE and LICENSE PLATE LIGHTS

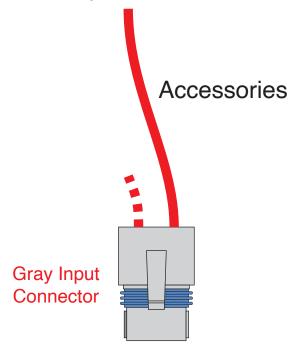






Green Accessory Connector installation instructions:

If you plan on using the Battery Outputs (fuse locations F2-F5), this Red Accessory wire must be connected; see page 6.
If you are not using these outputs, this Red Accessory wire can be removed.



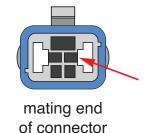
To remove this Accessory wire, first remove the wire retention clip, from the wire side of the connector...

retention clip

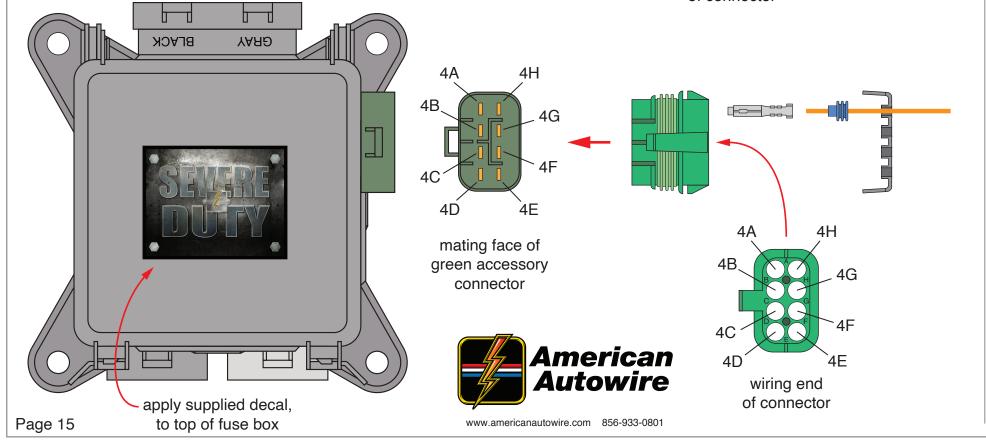
then, facing the mating end of the connector and using a small thin-bladed device, undo the retention tab of the terminal and pull the wire from the connector.

Examples of possible user circuits	Pin Location	Output Type	Fuse	Circuits are "live", in these ignition switch positions	
- Lights: Courtesy,Underhood, etc.- Electronic Modules/ECU's- Cigarette Lighters- USB charging outputs	4A	Optional Battery Feed [★]	F4	- All	
	4B	Optional Battery Feed*	F5		
	4G	Optional Battery Feed [★]	F3		
	4H	Optional Battery Feed*	F2		
- Radios/CBs - GPS units - Spot Lights	4C	Optional Accessory Feed	F7	"ACC" (Accessory)	
	4F	Optional Accessory Feed	F6		
- Fuel Pumps/Fuel Pump Relays- Electronic Modules- Fan Relays	4D	Optional Ignition Feed	F8	"ON"/"IGN"/"RUN"	
	4E	Optional Ignition Feed	F9	ON / IGN / INON	

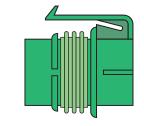
* The Red Accessory wire, in the Gray Input Connector, must be connected, in order to use these circuits.



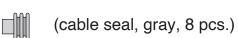
undo terminal retention tab, in this area

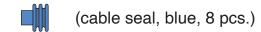


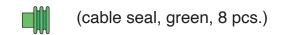
FIND THESE PARTS, IN BAG B.

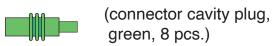


(8-way sealed female connector, 1 pc.)

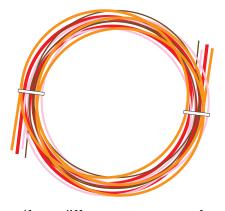








(female terminal, 10 pcs.)



(cable seal

retainer, 1 pc.)

(four different gauges, of coiled wire; 400 inches)

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STEP 3: RECONNECT YOUR BATTERY:

When you have completed the installation and are ready to reconnect the battery, make sure that the following electrical system grounds are in place:

- A. Battery is grounded to the ENGINE BLOCK.
- B. Battery is grounded to the frame.
- C. Engine block is grounded to the frame.
- D. Body is grounded to the frame.

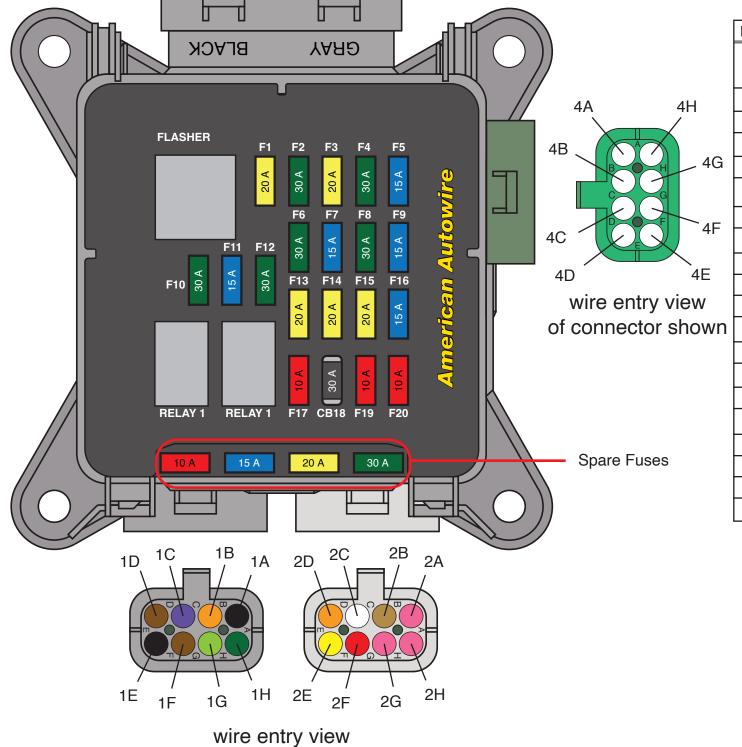
STEP 4: CHECK ALL ELECTRICAL FUNCTIONS:

Any non-functioning items should be checked for proper installation. Any problems with your wiring and electrical circuit functions, should be addressed to American Autowire Systems, Inc. as soon as possible, to avoid any warranty problems.

If you have any questions concerning this or any of our products, please feel free to call us at 1-856-933-0801.



Fuse Block Fuse/Circuit Listings:



of connectors shown

Fuse #	Fuse Block Lid Printing	Fuse Rating	Output Pin	System Wiring Protected
F1	FLASHER	20A	1C (Turn Signals) 1F (Hazard)	(1C - Turn); (1F - Hazard) Output Feeds to Turn Signal Switch See page 10
F2	OPTIONAL BATTERY	30A	4H	Option Battery Feed - See page 15
F3	OPTIONAL BATTERY	20A	4G	Option Battery Feed - See page 15
F4	OPTIONAL BATTERY	30A	4A	Option Battery Feed - See page 15
F5	OPTIONAL BATTERY	15A	4B	Option Battery Feed - See page 15
F6	OPTIONAL ACCESSORY	30A	4F	Optional Switched Accessory Feed - See page 15
F7	OPTIONAL ACCESSORY	15A	4C	Optional Switched Accessory Feed - See page 15
F8	OPTIONAL IGNITION	30A	4D	Optional Switched Ignition Feed - See page 15
F9	OPTIONAL IGNITION	15A	4E	Optional Switched Ignition Feed - See page 15
F10	HEAT/AC	30A	1D	Switched Ignition Feed for Heater/AC - See page 9
F11	REVERSE LIGHTS	15A	1G	Switched Ignition Feed to Reverse Light Switch - See page 9
F12	BRAKE LIGHTS	30A	1B	Battery Feed to Brake Light Switch - See Page 9
F13	PARK LIGHTS	20A	2D	Battery Feed to Headlight Switch for Park Lights - See page 7
F14	WIPER	20A	2C	Switched Accessory Feed for Wipers - See page 7
F15	RADIO	20A	2B	Switched Accessory Feed for Radio - See page 9
F16	MISC IGNITION	15A	2A	Switched Ignition Feed for Fan/Lighting Relays - See page 8
F17	CLOCK/ECU	10A	2E	Battery Feed for Clock/ECU Memory - See page 8
CB18	HEADLIGHTS	30A CB	2F	Battery Feed to Headlight Switch for Headlights - See page 7
F19	GAUGES	10A	2G	Switched Ignition Feed to Gauges - See page 7
F20	MISC IGNITION	10A	2H	Switched Ignition Feed for Fan/Lighting Relays - See page 8



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