



**American
Autowire**

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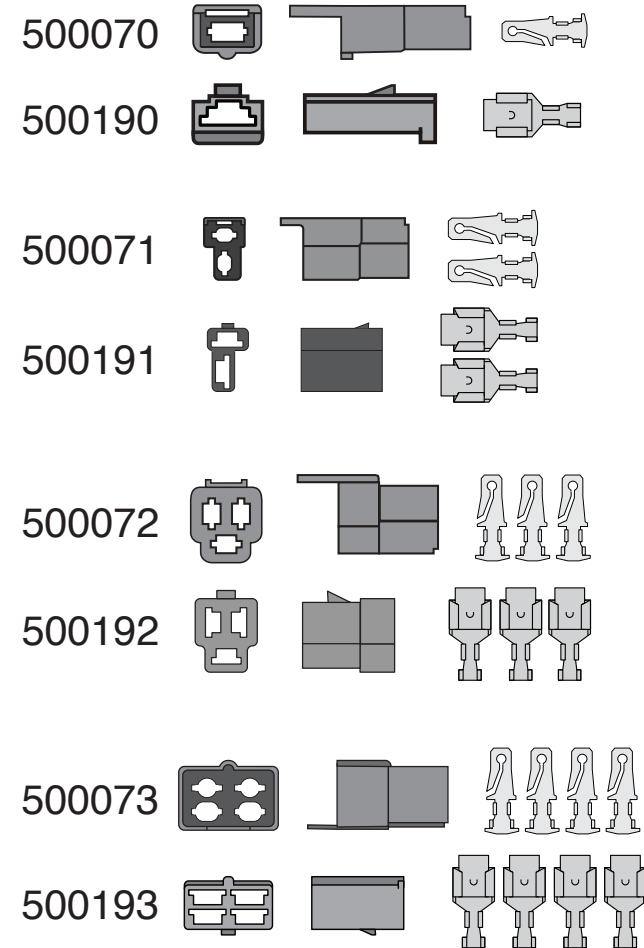
**SEVERE
DUTY**



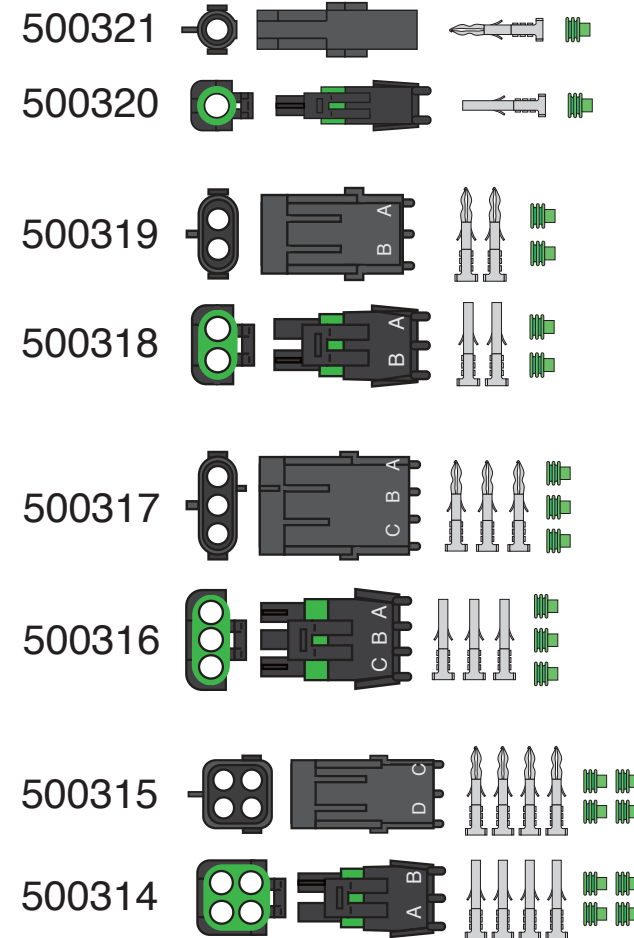
OPTIONAL Add-On Equipment:

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



500723
Battery Trunk Mount Kit,
Top Post
(pictured)



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

500778
"Lifeline"
Memory Retention
Module



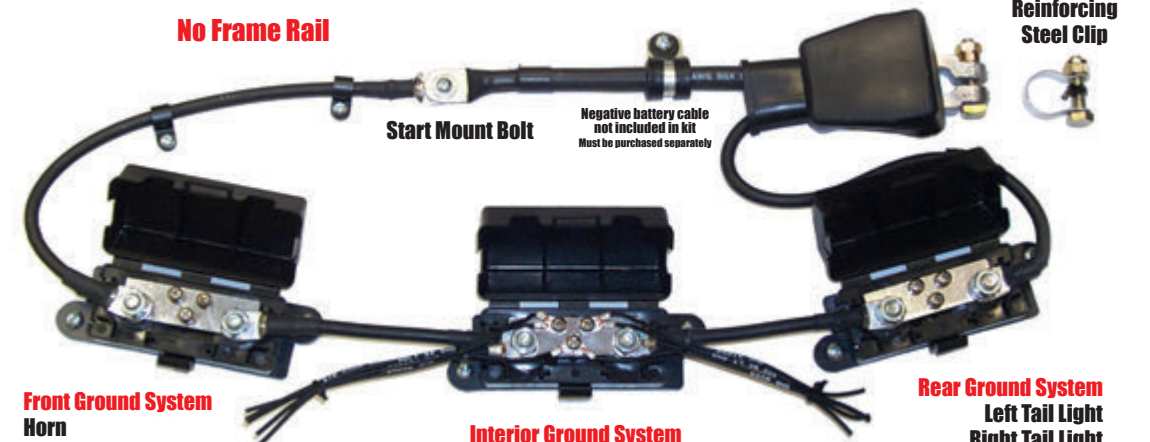
500726
Battery Under Hood
Mount Kit, Side Post
(pictured)

500725
Battery Under Hood
Mount Kit, Top Post



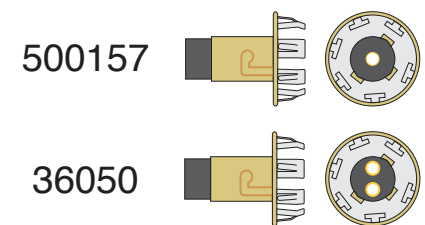
500875
Alternator Connection Kit -
High Amp Output

All Copper Ground System No Frame Rail

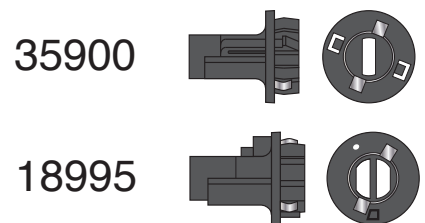


500717
Full Vehicle Grounding Kit

LAMP SOCKETS - METAL



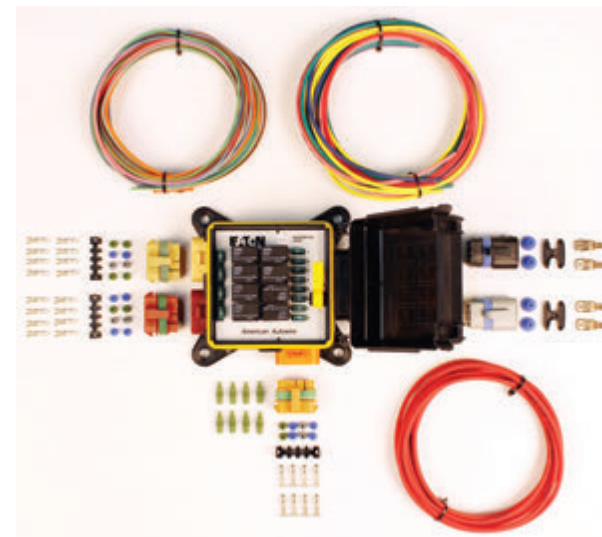
LAMP SOCKETS - PLASTIC



510152 - 510157
Split Braid
Wiring Harness Wrapping



510602
60 Amp
Weatherproof Relay



510599
Severe Duty Relay Box



500093
Weatherproof
Universal
Relay Kit



500081
Courtesy Light
Connection Kit



510564

92971174 Rev 1.0 6/10/2019

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 barrel 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.



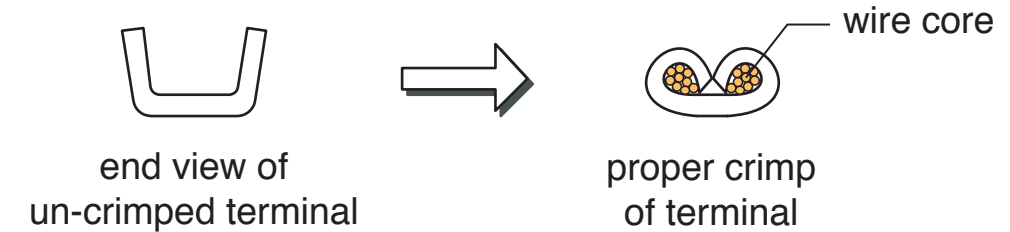
AAW offers a great terminal crimping video entitled "Proper Crimping Video". It can be viewed by visiting YouTube.

Type the following address into your web browser, to go directly to the video:
<https://www.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.



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)



AAW p/n 510609
Weather Pack/Metri Pack
crimping tool (18-12 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.



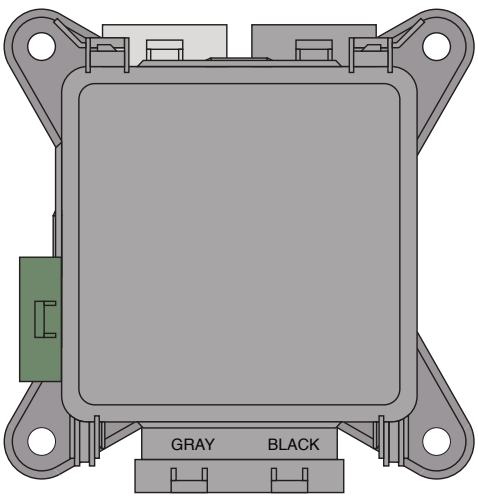
If you have any questions concerning this or any of our products, please feel free to call us at 1-856-933-0801.

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:

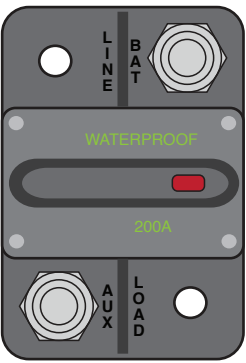
Table of Contents:

Bags: Pages: Sections:

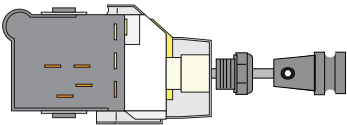
A	5, 6	Power Subkit - This harness contains: <ul style="list-style-type: none">- Starter solenoid connections.- Main Circuit Breaker connections.- Neutral safety switch connections.- Ignition switch connections.- Alternator connections.- Battery connections.
B	7 - 13	Main Subkit - This Harness contains: <ul style="list-style-type: none">- Wiper Feed.- Headlight Switch Feed.- Gauge Feed.- Clock Feed.- Radio Feed.- Miscellaneous Ignition Feeds.- Heater/AC Feed.- Horn Feed.- Reverse Light Switch Feed.- Brake Light Switch Feed.- Turn Signal/Hazard Light Feed.
C	12, 13	Headlight Kit - This Harness contains: <ul style="list-style-type: none">- Headlight Switch.- Headlight connections.- Parking Light connections.- Courtesy Light connections.- Dimmer Switch.
D	10, 11	Turn Signal Kit - This Harness contains: <ul style="list-style-type: none">- Turn Signal connections.- Brake Switch connection.- Third Brake Light connection.- Turn Signal Indicator connections.
E	14	Gauge Kit - This Harness contains: <ul style="list-style-type: none">- Gauge connections for aftermarket gauges.- Electronic Speedometer connections.- Indicator Lights connections.



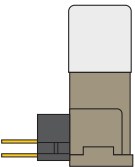
Severe Duty Fuse Box



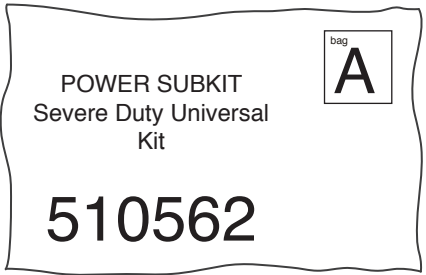
Circuit Breaker



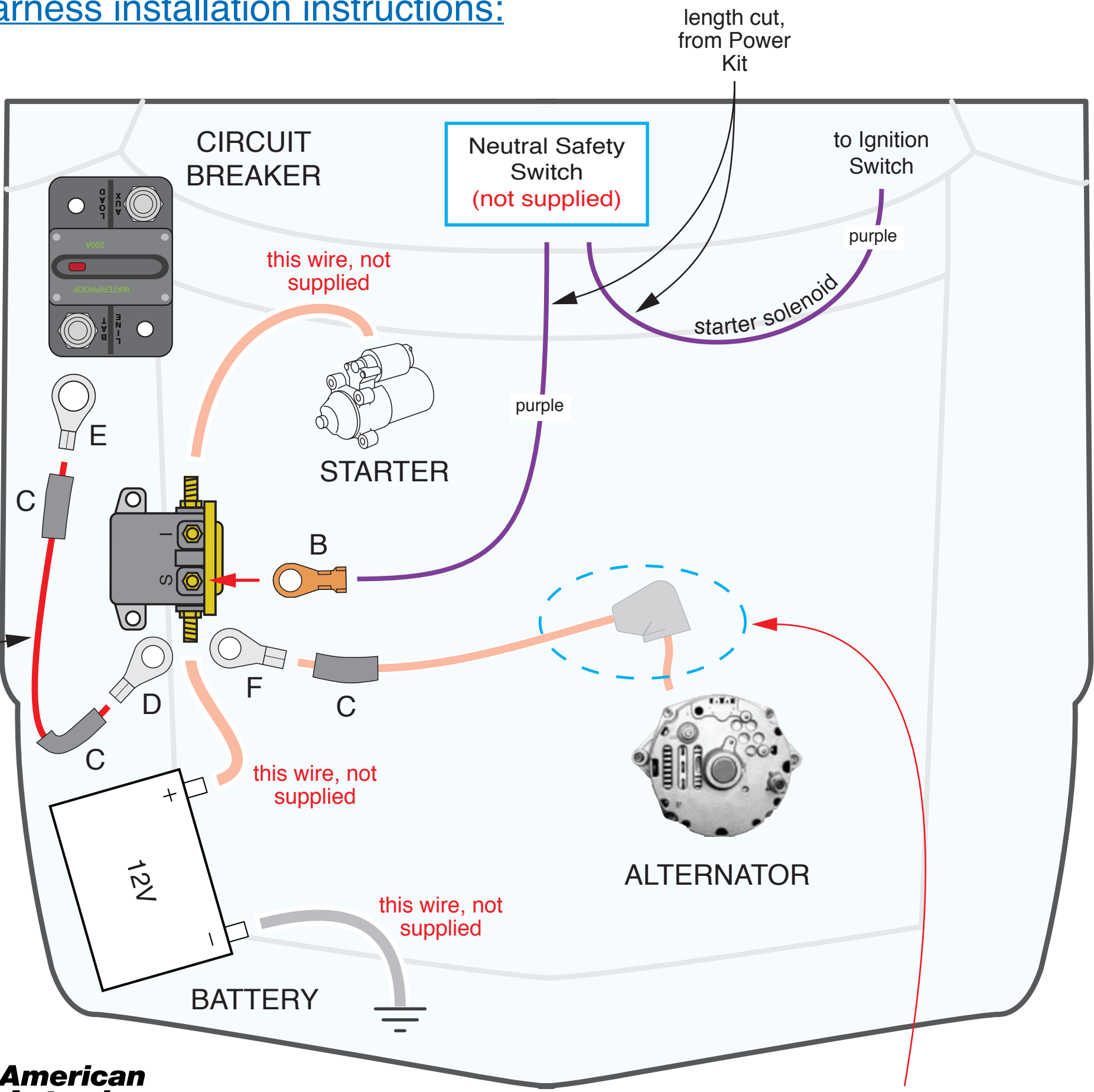
Headlight Switch



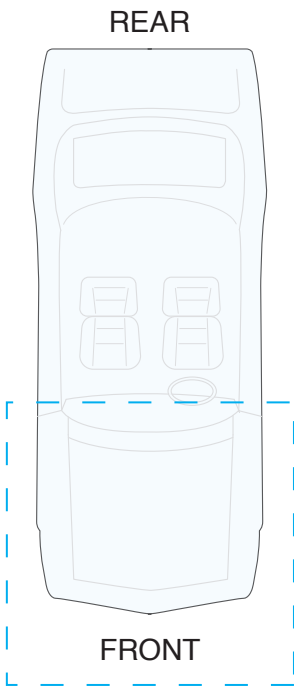
Dimmer Switch



Power Harness installation instructions:



FIND THESE PARTS, IN BAG A.

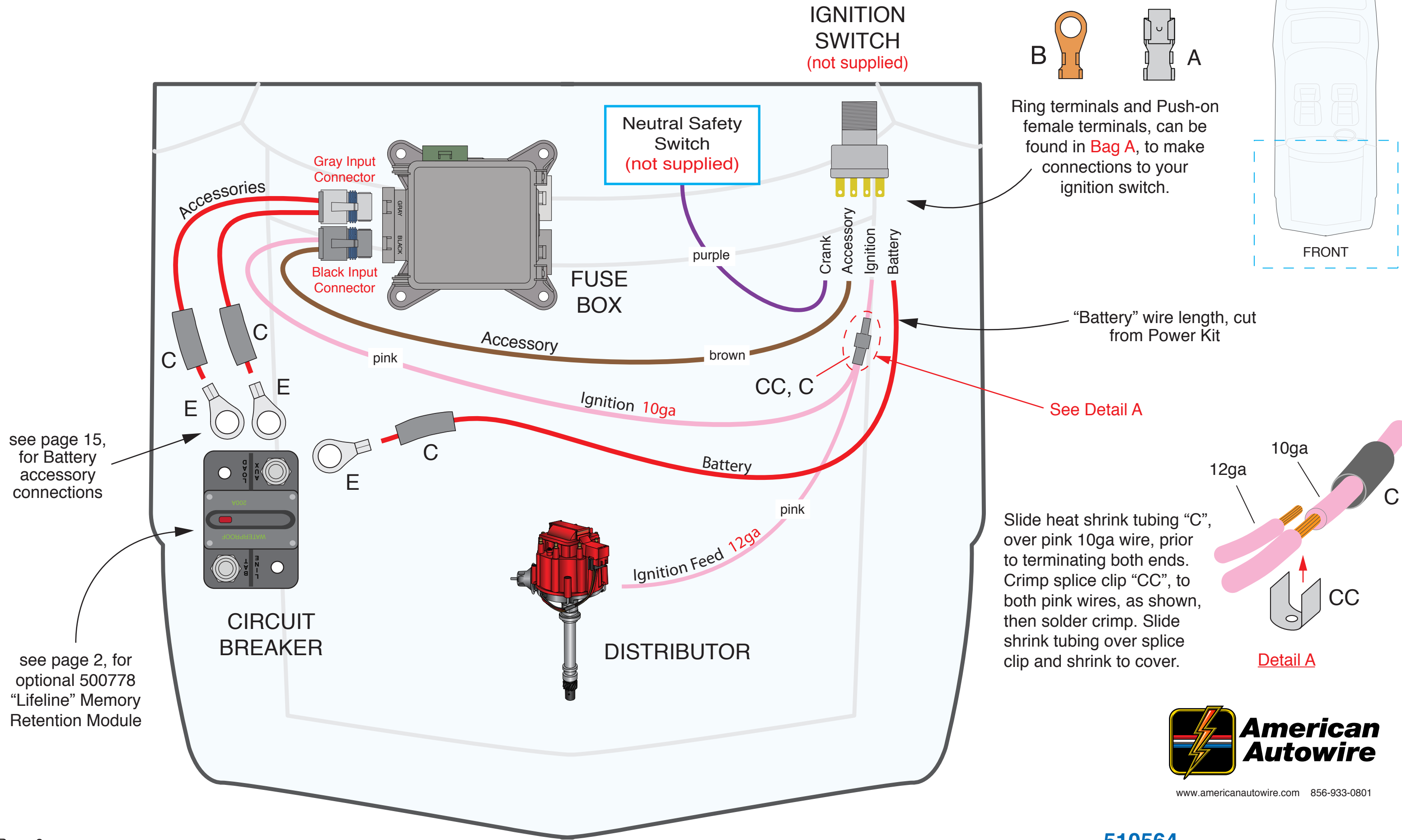


- | | | |
|----|--|--|
| A | | (female terminal, 5 pcs.) |
| B | | (ring terminal, 7 pcs.) |
| C | | (shrink tubing, 5 pcs.) |
| D | | (ring terminal, medium stud, smaller wire, 2 pcs.) |
| E | | (ring terminal, large stud, smaller wire, 3 pcs.) |
| F | | (ring terminal, medium stud, large wire, 2 pcs.) |
| CC | | (splice clip, 2 pcs.) |

these parts are not supplied; see available Alternator Connection Kit 500875, on page 2



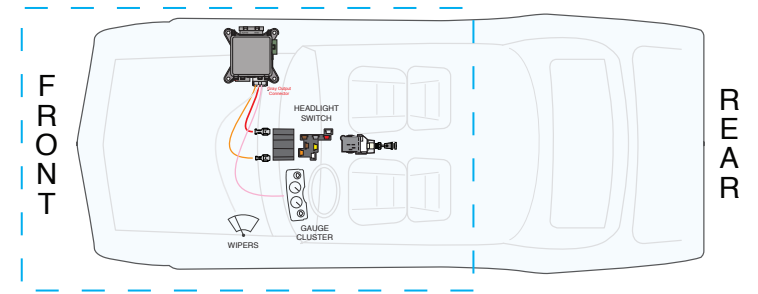
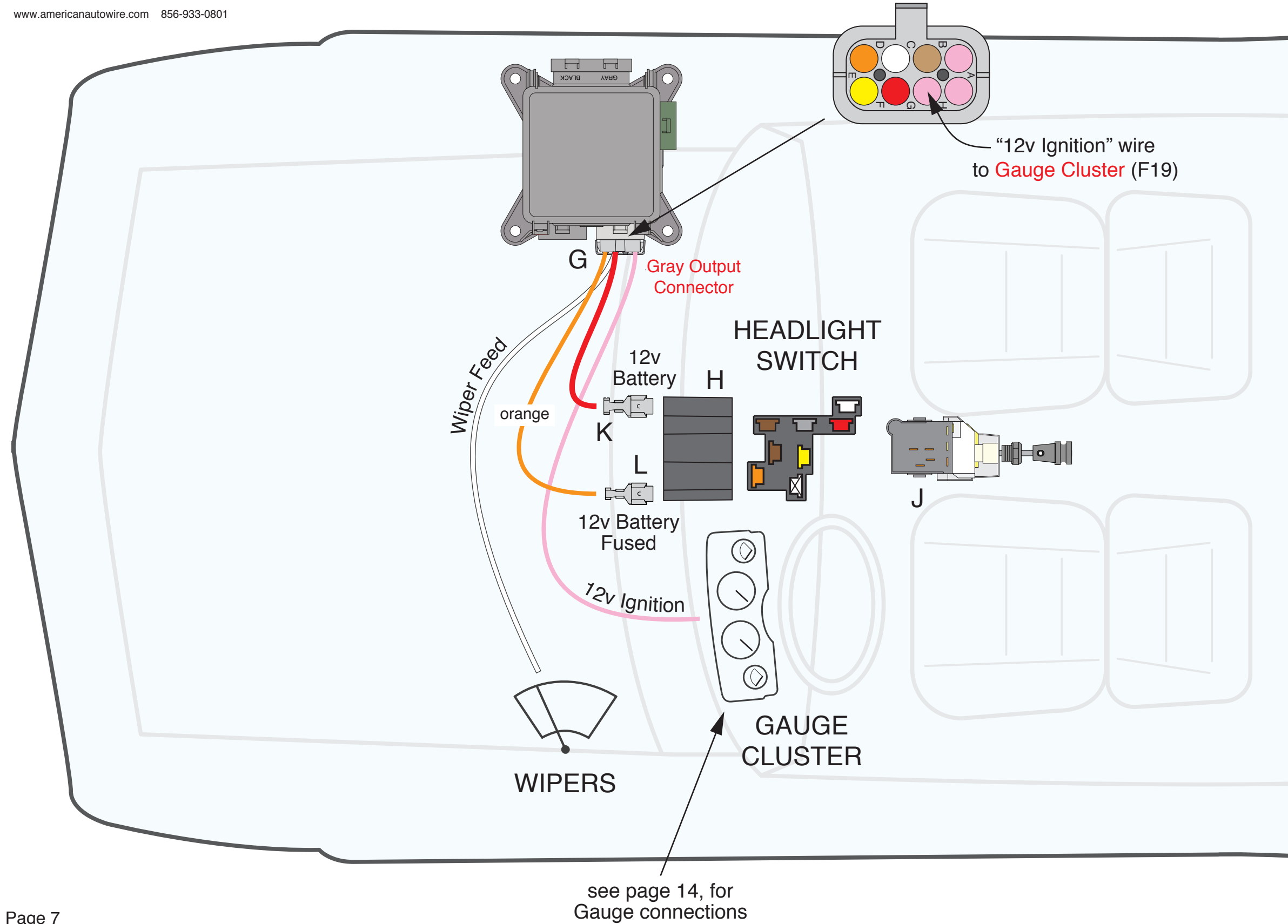
Power Harness **Gray Input Connector** and **Black Input Connector** installation instructions:



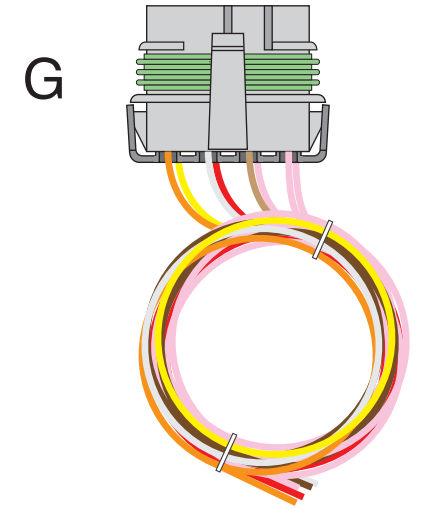
Main Harness - Gray Output Connector installation instructions:



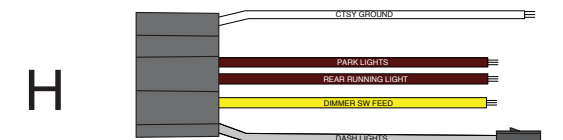
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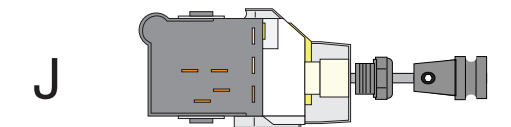
**FIND THIS PART,
IN BAG B.**



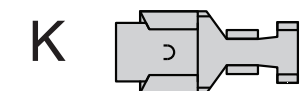
FIND THESE PARTS,
IN BAG C.



(Headlight, Parking Light
Harness; Reference)



(headlight switch, 1 pc.)

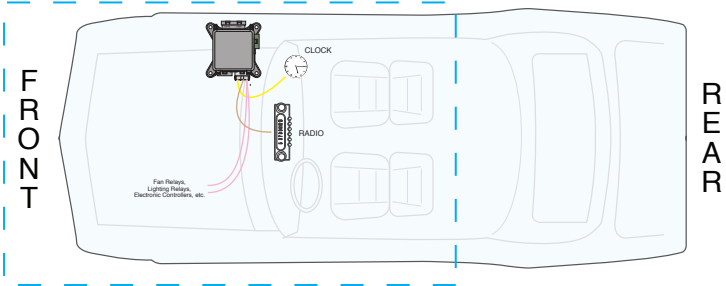


(female terminal,
large 3, pc.)

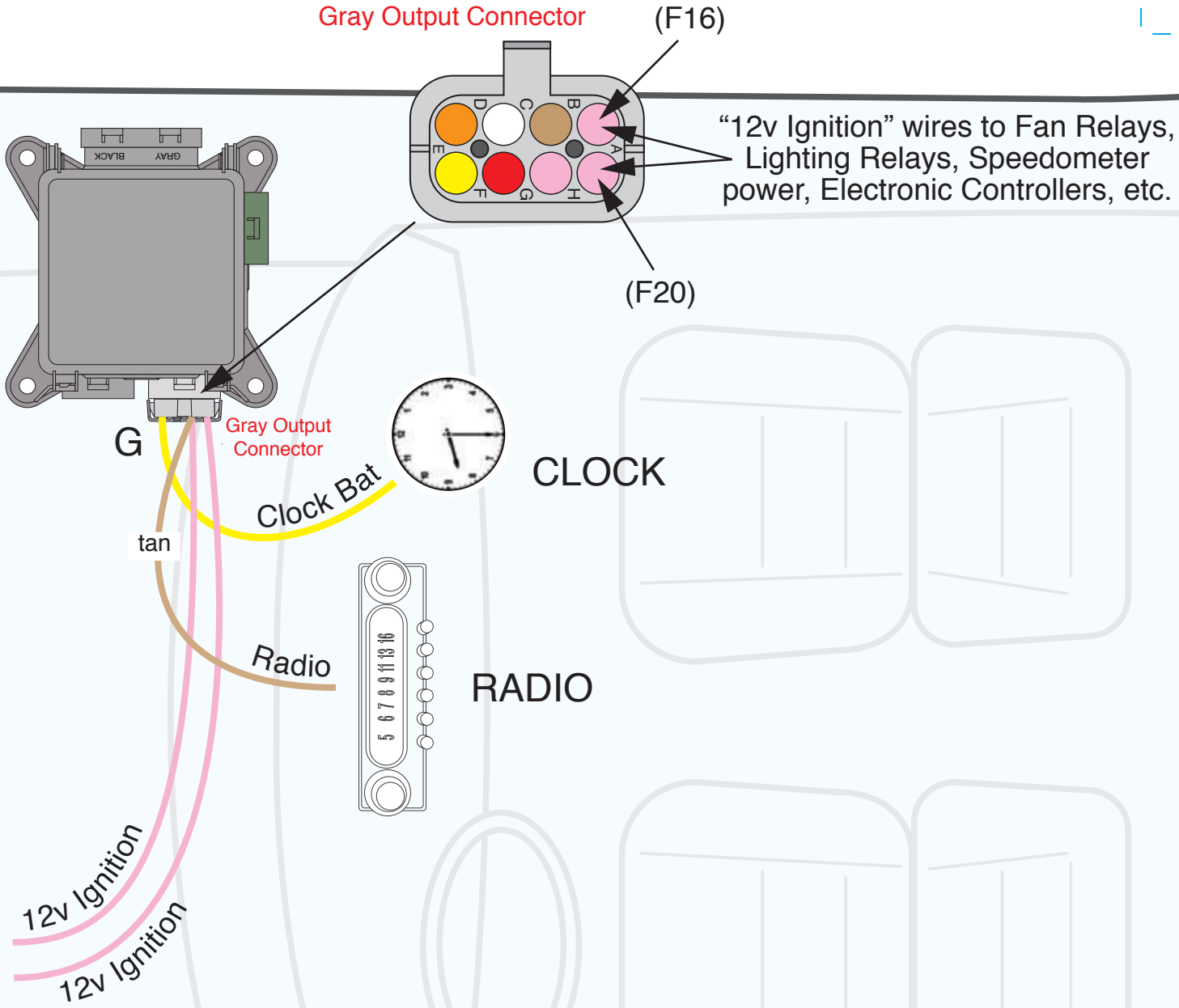


(female terminal,
small, 3 pc.)

Main Harness - Gray Output Connector installation instructions:

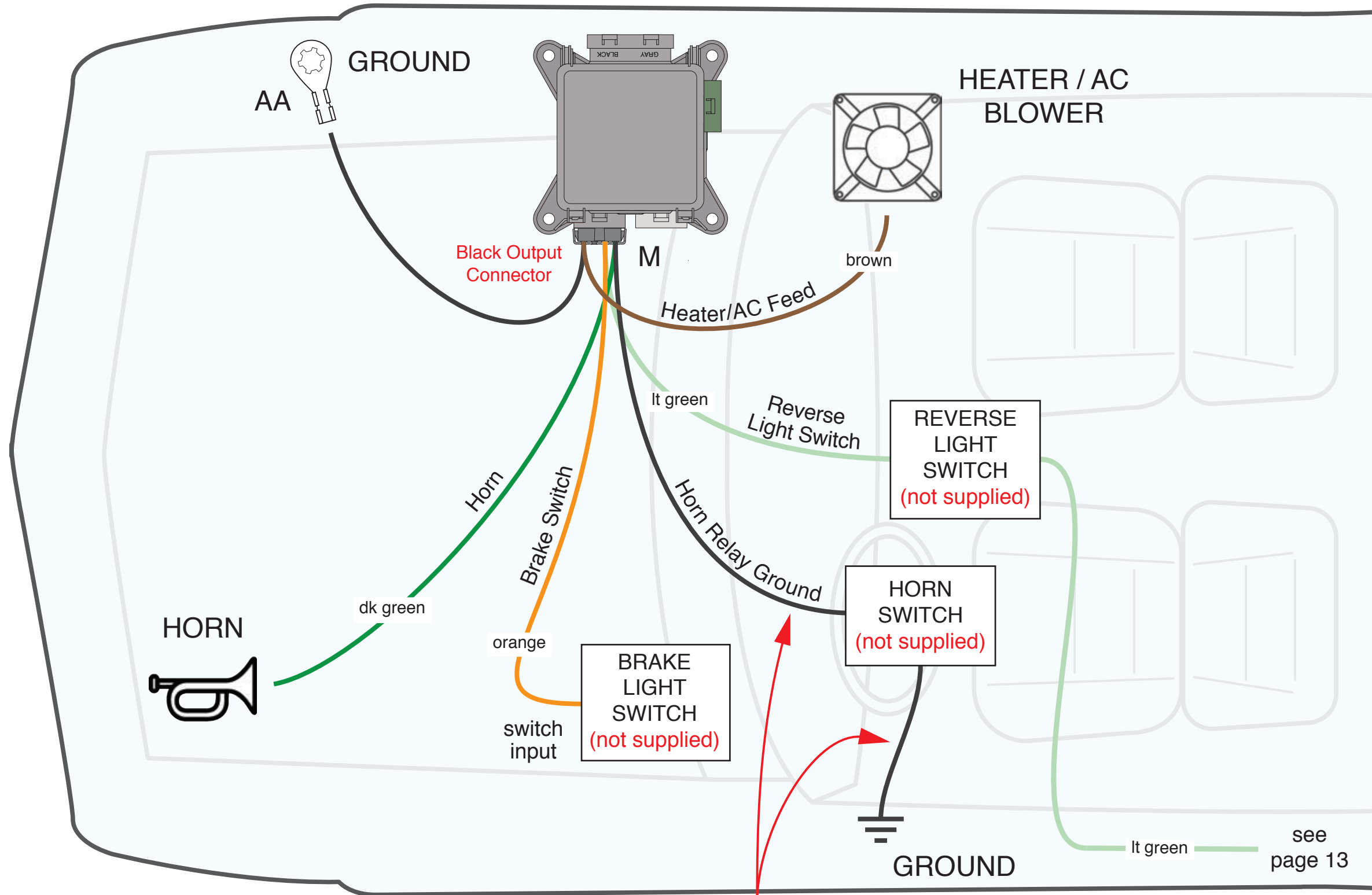
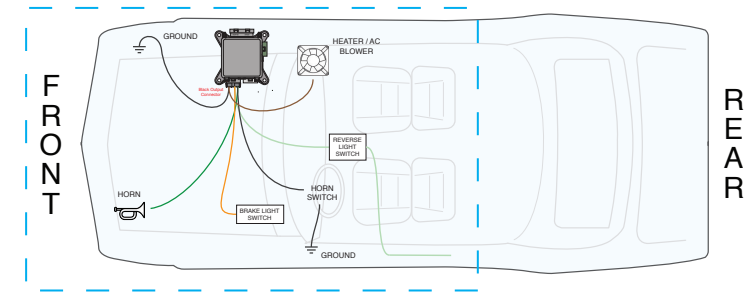


Wiring-end view of
Gray Output Connector

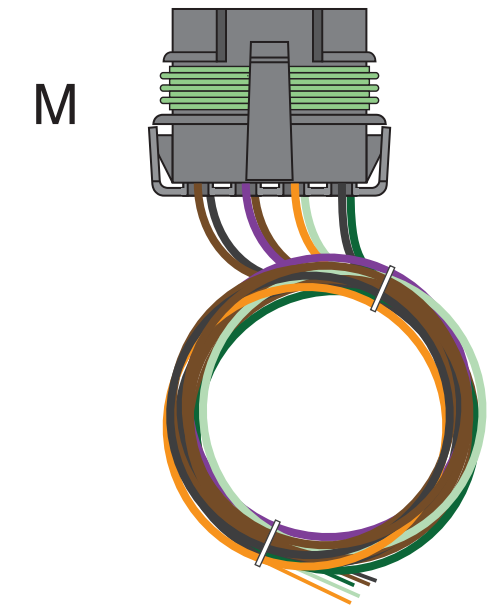


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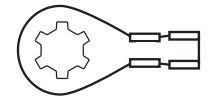
Main Harness - Black Output Connector installation instructions:



FIND THESE PARTS,
IN BAG B.



AA



(ring terminal,
internal tooth,
2 pcs.)



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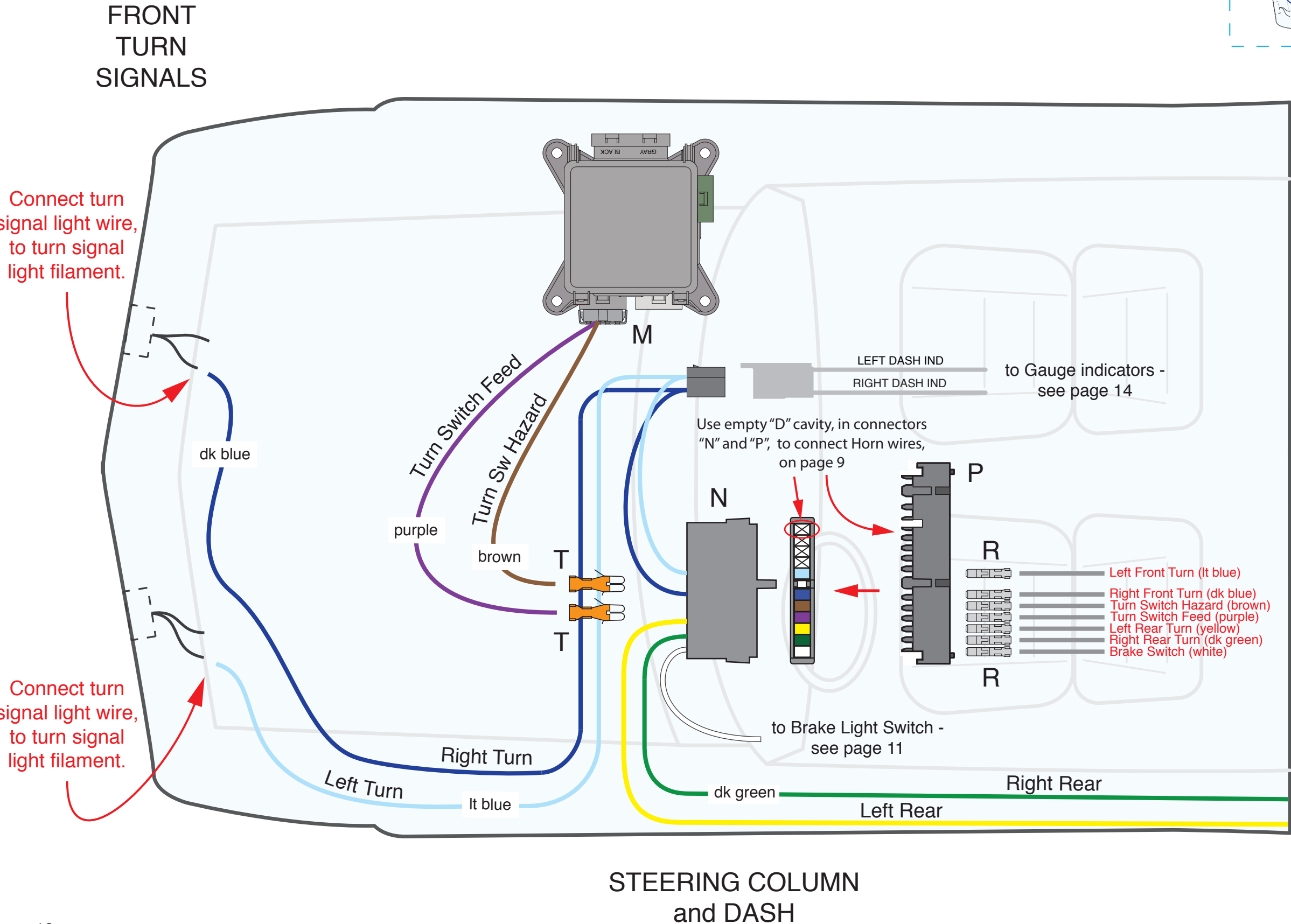
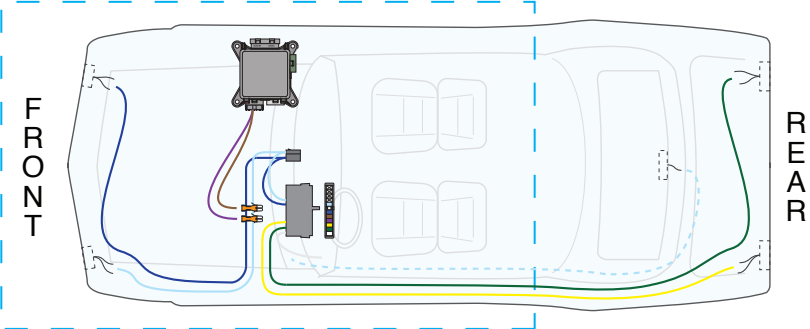
Page 9

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

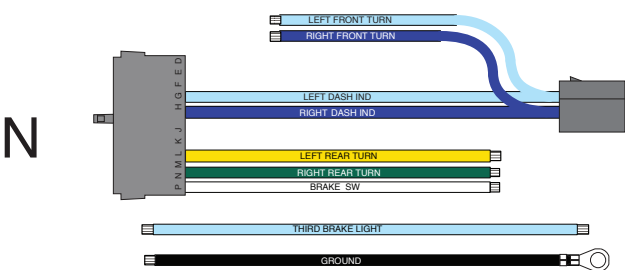
510564

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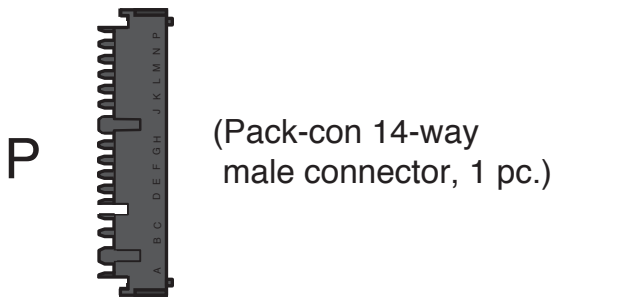
Turn Signal Harness installation instructions:



FIND THESE PARTS,
IN BAG D.



(Turn Signal
Harness; Reference)



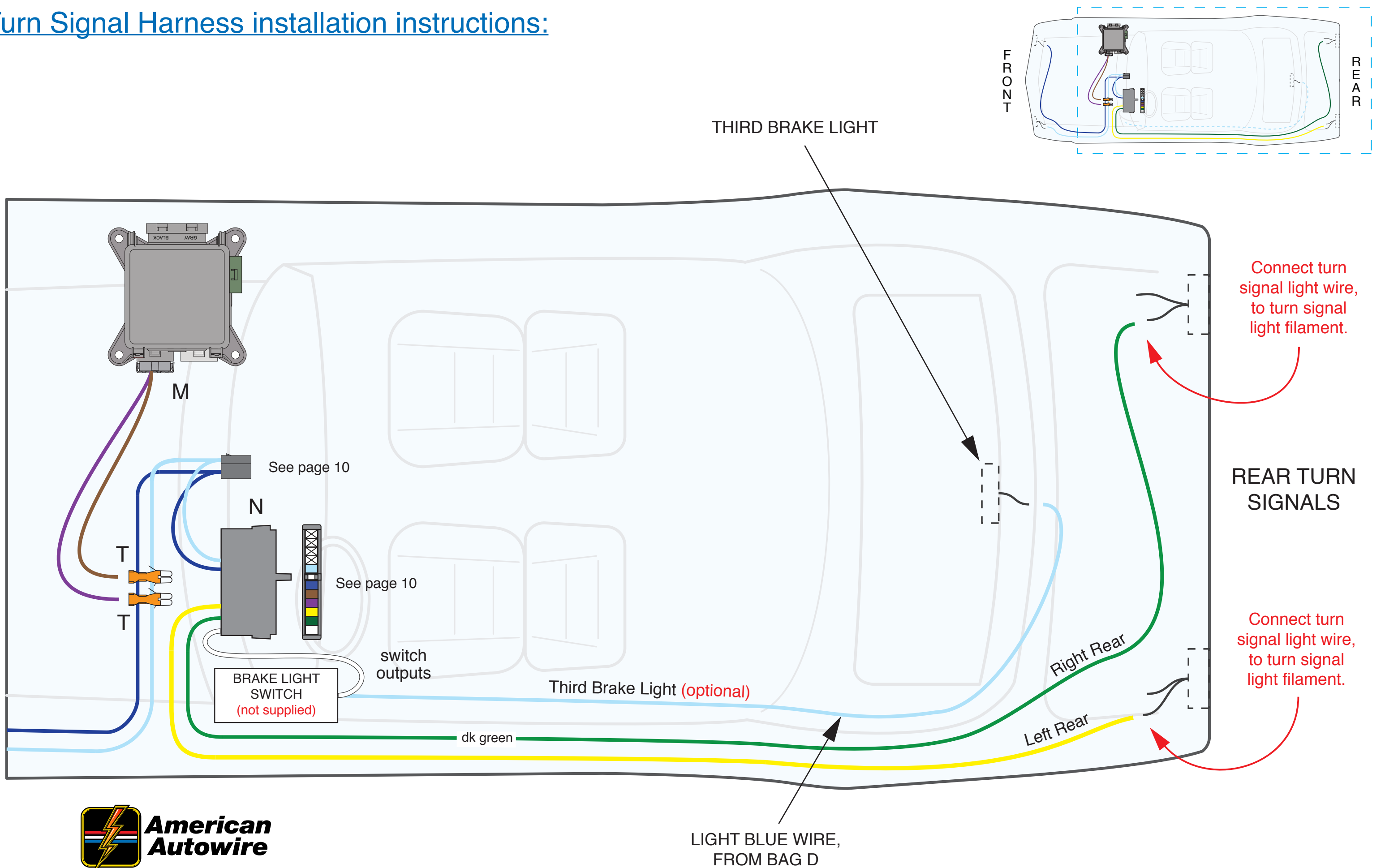
(Pack-con male
terminal, 10 pcs.)

(Pack-con female
terminal, 6 pcs.)

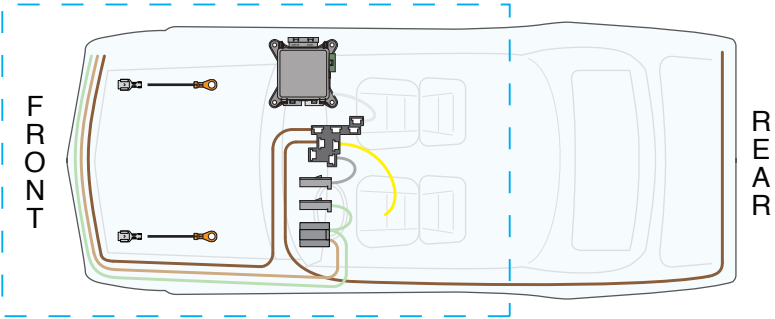


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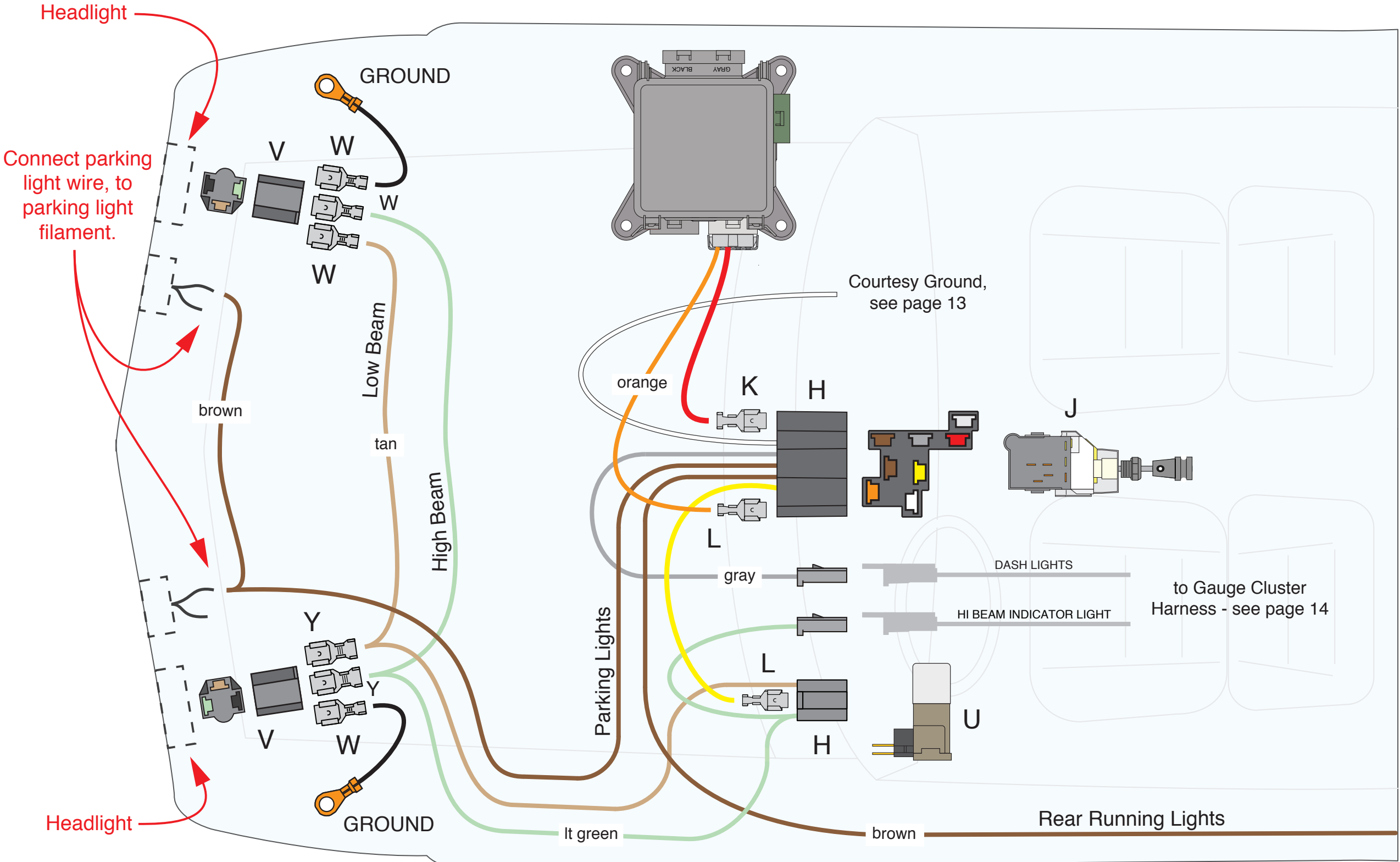
Turn Signal Harness installation instructions:



Headlight Harness installation instructions:



HEADLIGHTS and FRONT PARKING LIGHTS



FIND THESE PARTS, IN BAG C.

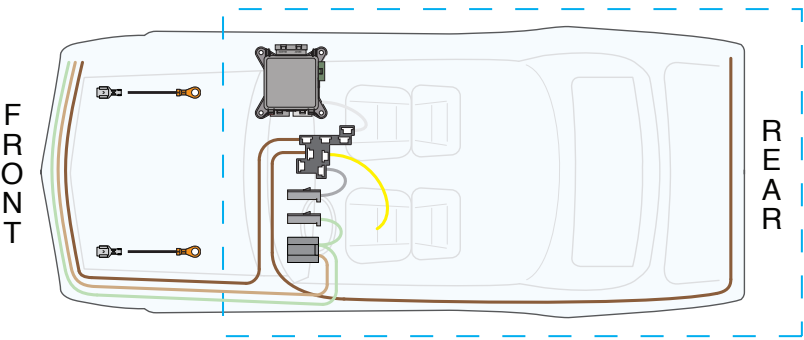
- H** (Headlight, Parking Light Harness; Reference)
- J** (headlight switch, 1 pc.)
- K** (single female terminal, large, 2 pc.)
- L** (single female terminal, small, 3 pcs.)
- U** (dimmer switch, 1 pc.)
- V** (3-way female connector, 2 pcs.)
- W** (single female terminal, 6 pcs.)
- Y** (double female terminal, 2 pcs.)

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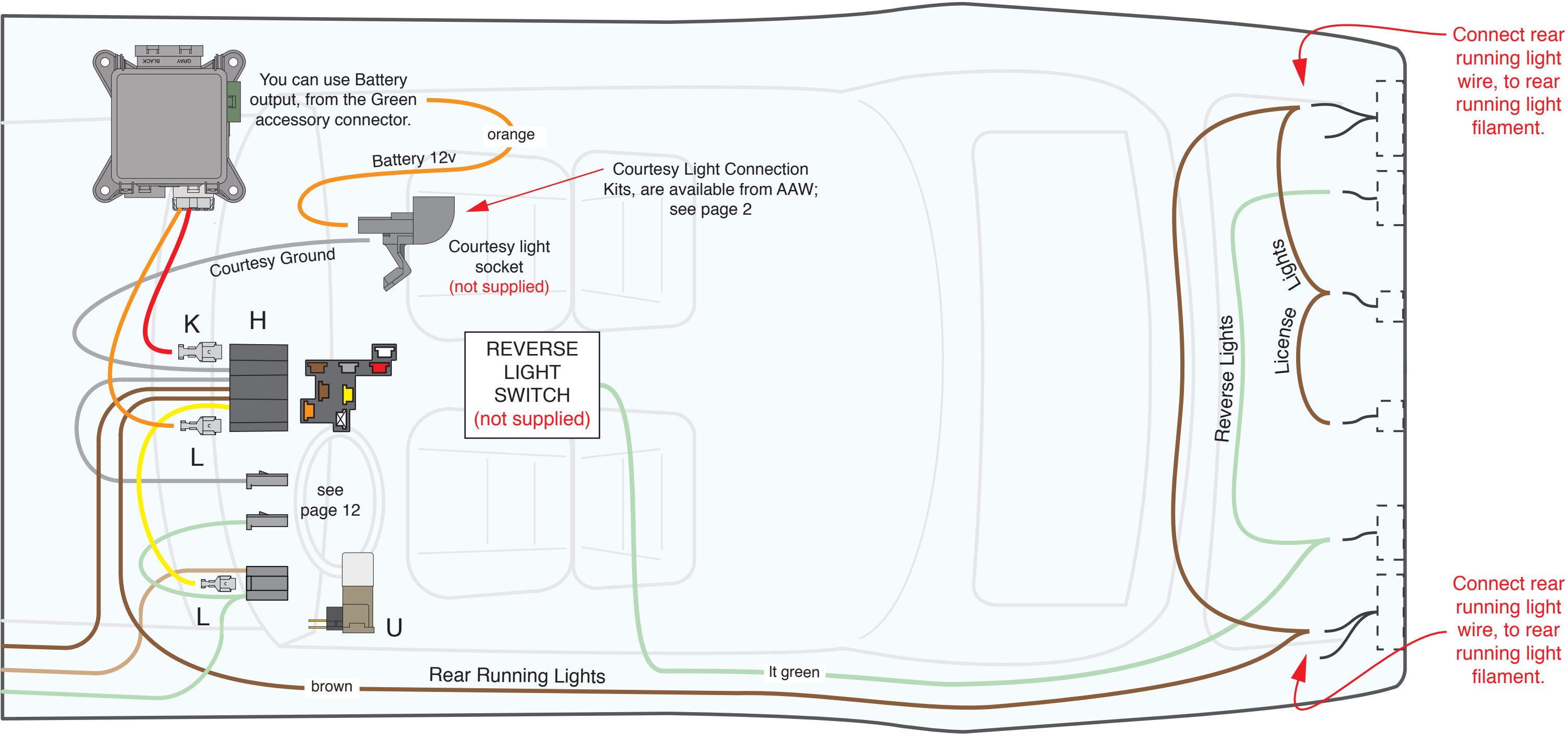
Headlight Harness installation instructions:



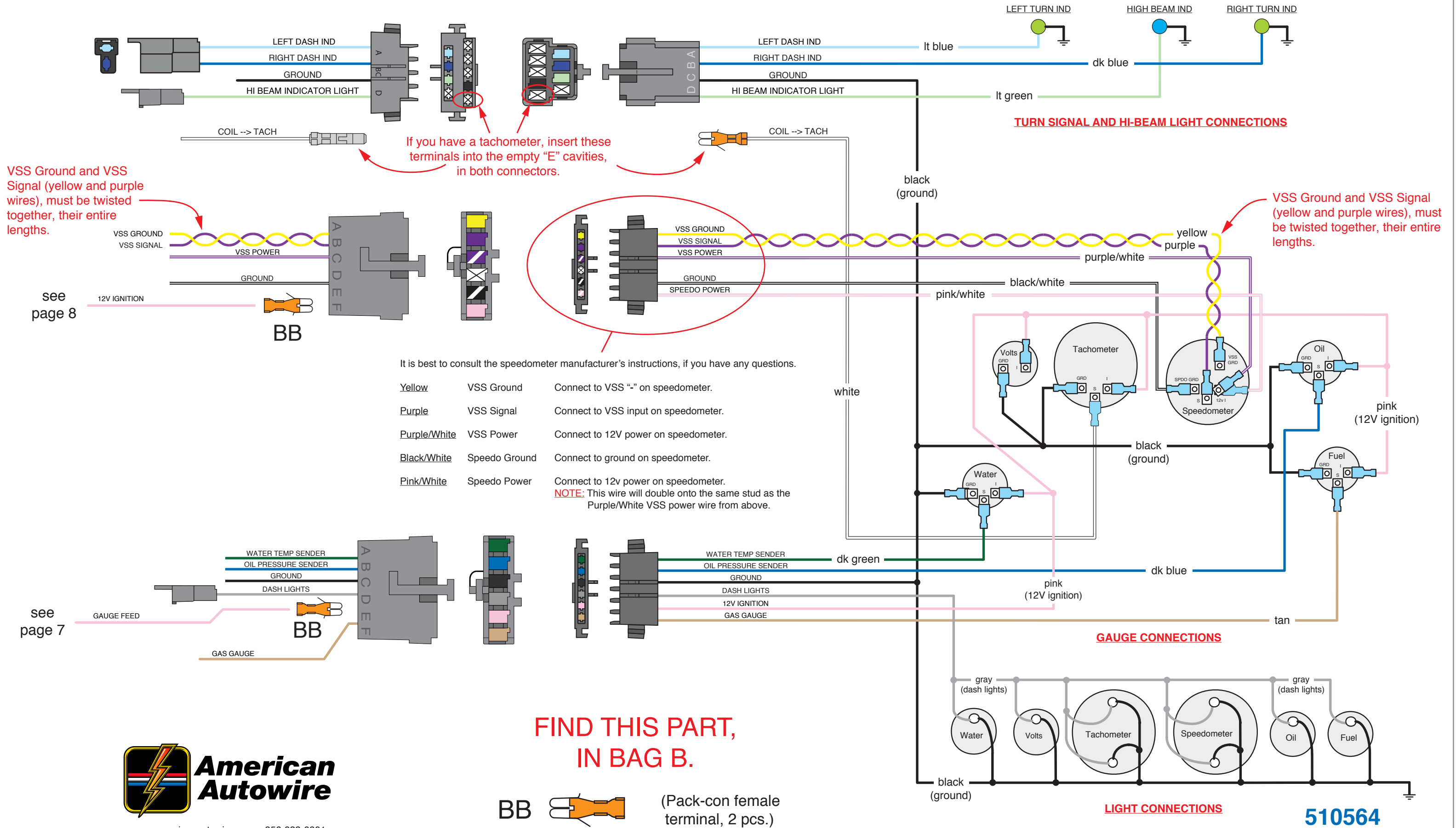
REAR RUNNING, REVERSE
and LICENSE PLATE
LIGHTS



COURTESY
LIGHTS

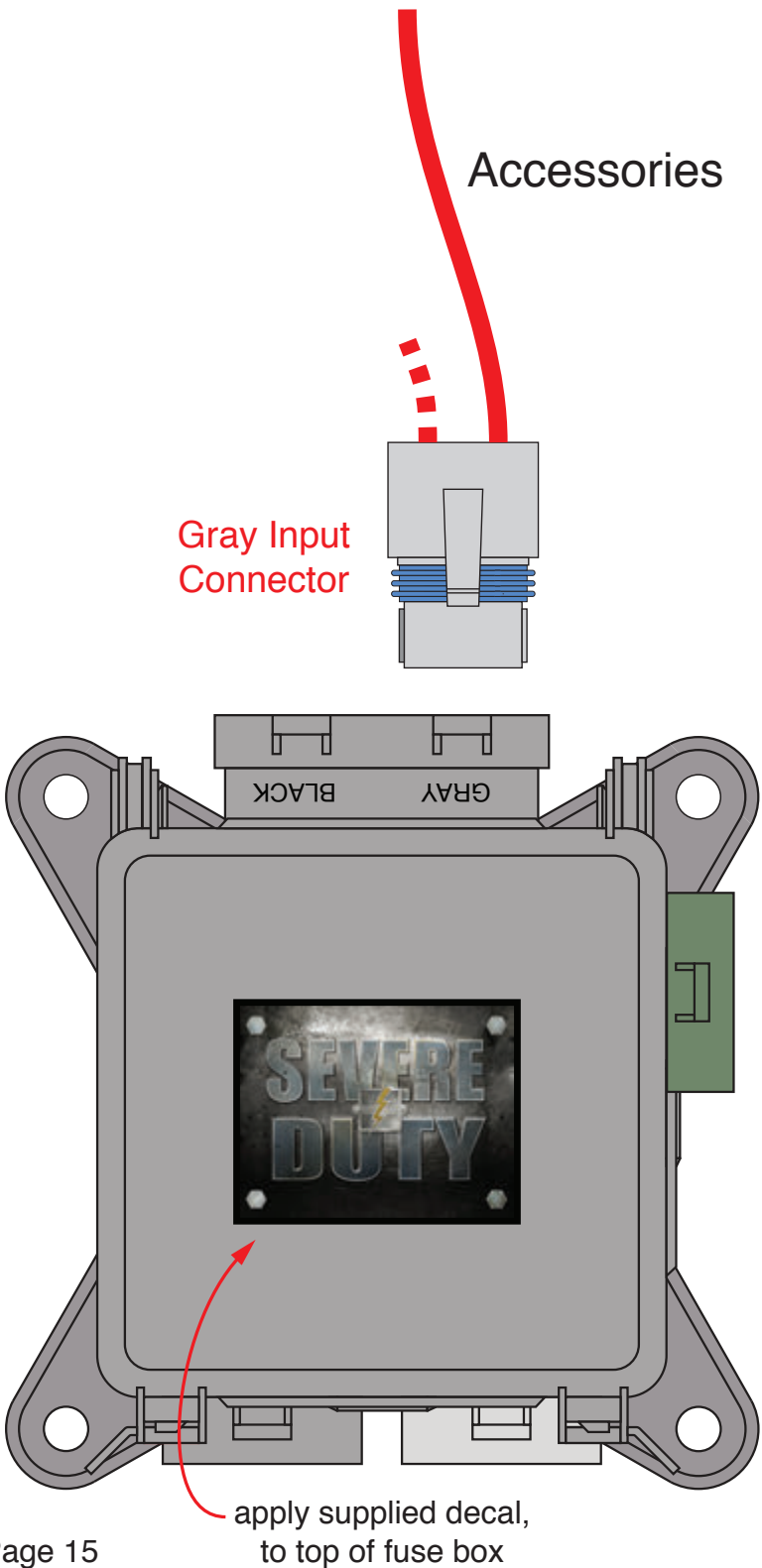


Gauge Cluster Harness (aftermarket gauges) installation instructions:



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.

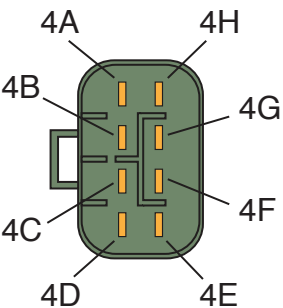
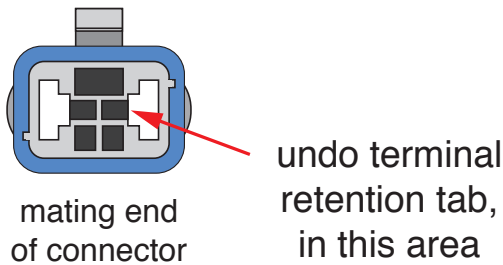


Accessories

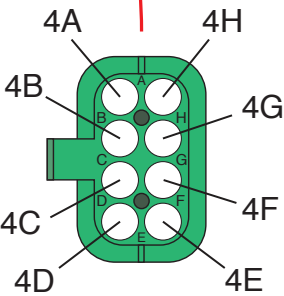
To remove this Accessory wire, first remove the wire retention clip, from the wire side of the connector...



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.



mating face of green accessory connector

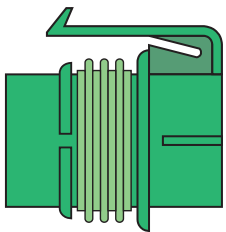


wiring end of connector

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	

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

FIND THESE PARTS, IN BAG B.



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



(cable seal retainer, 1 pc.)



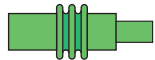
(cable seal, gray, 8 pcs.)



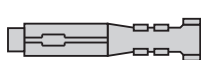
(cable seal, blue, 8 pcs.)



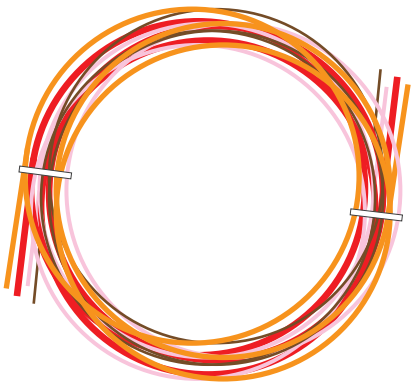
(cable seal, green, 8 pcs.)



(connector cavity plug, green, 8 pcs.)



(female terminal, 10 pcs.)



(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.

