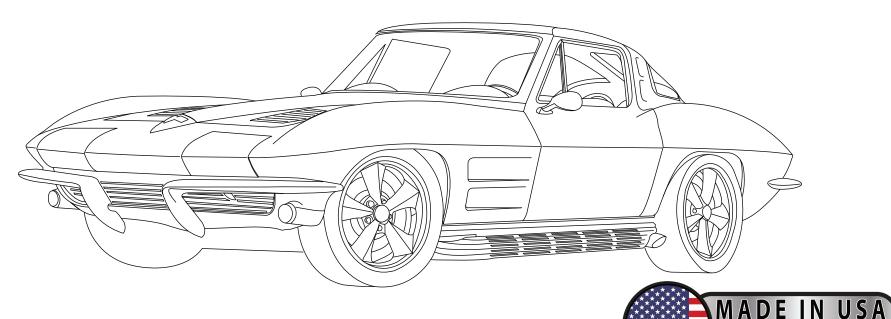


WARNING:

Validate the kit contents with the component list included on this page, before proceeding. This kit is intended to be used in a modified vehicle. Please read this page thoroughly and be sure that you understand everything explained on it prior to opening any of the enclosed packages, or before attempting to install any of the components. Once this kit has been opened or a component installed, the kit is not returnable.

- 1. This upgraded AAW wiring system should typically be used in a MODIFIED application only. This kit is not designed for use on a stock Corvette.
- 2. This kit includes the wiring to support the use of a factory heater only system and/or aftermarket heater and A/C systems. This kit does not include the wiring for the factory original A/C system.
- 3. This kit requires the use of a high current self-exciting 1-wire, "SI" series, or other style internally regulated alternator. An adapter may be necessary in some applications. The use of stock alternator is NOT supported.
- 4. This kit requires the use of an original, factory headlight swtich nut to mount the new, upgraded headlight switch. This nut is not provided in the kit so, if the original nut is not aviable, a replacement will be required. The GM part number for this nut is h and it is available fro, various Corvette parts suppliers.
- 5. This kit DOES NOT support the use of an ammeter. All AAW kits are engineered to supply the optimum charge to the battery. To achieve this performance, we route our 6ga. charge wire directly from the alternator output charge terminal to the starter battery terminal. Due to the path of the charge being altered from the stock configuration, the gauge can no longer see a charge vs. a discharge, so it may not work properly. Most stock alternator current outputs were rated at a maximum of about 37-60 amps. Modified cars being built today typically utilize a 100 amp or higher output alternator. With these higher current units, ammeters, generally speaking, become a safety hazard. Ammeters are usually wired in parallel to the charging circuit, are typically unfused, and can short very easily causing a fire. This wiring system has been designed to work with a voltmeter.
- 6. This kit IS NOT set up with a resistance wire for a standard, points type ignition system. It is wired with a full 12-volt primary ignition feed that is hot in the crank and run positions. Our system will support HEI, MSD, other electronic ignition systems, as well as most all computerized Fuel Injection systems. If you wish to run a points type system, there are illustrations on the engine connection pages to do so. Primary ignition voltage in the cranking position is handled via a full 12 volt bypass wire that is routed from the starter "R" terminals to the positive side on the coil. Extra parts (ballast resistor) that are not included in this kit will be required to complete that type of operation.



510612 - Classic Update Series Kit 1963-67 Chevrolet Corvette

This kit contains the following components:

| | | Part | | |
|---|------------|---------------|---|-------|
| | <u>Bag</u> | <u>Number</u> | <u>Description</u> <u>Quan</u> | ntity |
| | | 500042 | Floor Dimmer Switch | 1 |
| | | 500332 | Headlight Switch | 1 |
| | | 500674 | Ignition Switch Lock Cyl. & Keys | 1 |
| | | 510632 | Ignition Switch | 1 |
| | | 500919 | Practice Terminal Crimping Set | 1 |
| | | 510145 | Fuse, Relay, and Flasher kit | 1 |
| | G | 510890 | Dash Harness kit | 1 |
| | Н | 510614 | Instrument Cluster wiring kit | 1 |
| | J | 510908 | Engine Wiring Kit | 1 |
| | L | 510909 | Front Light Wiring kit | 1 |
| | M | 510619 | Rear Body Wiring kit | 1 |
| 3 | Ν | 510620 | Headlight Extension Wiring kit | 1 |
| | V | 510730 | VSS Extension Lead Wires | 1 |
| | Z | 510476 | Alternator and Main Power kit | 1 |
| , | | 520001 | Digital Gauge System Dim Wire - GM Kits | 1 |
| | | 92971437 | Firewall Template | 1 |
| | | 92973565 | Instruction set | 1 |
| | | | | |

Validate the kit contents with this component list. If there are any discrepancies with incorrect or missing parts, stop your installation and notify the supplier you purchased the kit from before proceeding.



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1963-67 Corvette

Classic Update Series

510612

VETERAN OWNED.

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92973565 Rev 2.2 08/25/2025

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: www.youtube.com/watch?v=JAqEDoVI-co

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





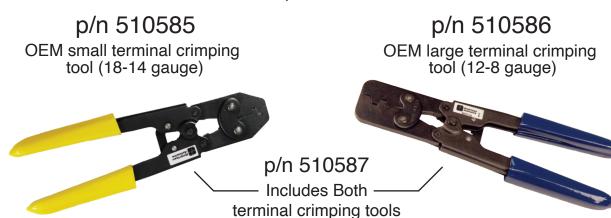
Factory Assembly Manuals 1963 p/n 36337 1964 p/n 36338 1965 p/n 36339 1966 p/n 36340 1967 p/n 36341 The terminals that we supply in our kits, utilize what is known as an F crimp. The F crimp, in a cross section, will look like the illustration below, when done correctly.





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.



We carry many accessories for your 1963-67 Corvette.



Full vehicle grounding kit p/n 500717



Optional Third Tail Light Kit p/n 510679



64-65 Corvette Rear Mounted Blower Kit p/n 510681

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



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STEP 1: DISCONNECT YOUR BATTERY:

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

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:

Pages: Sections: Bags:

Dash Harness - This is the main harness in the kit and contains:

- Starter solenoid connections.

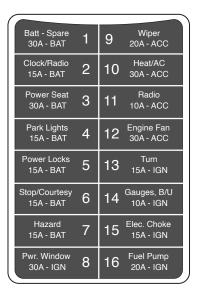
- Door jamb switches.
- Wiper motor connections.
- Wiper module and switch connections.h
- Brake light switch connection.
- Defrost module and switch connections.
- Neutral safety switch connection.
- Headlight and fog light connections.
- 10 14 Gauge Cluster Harness This Harness contains:
 - Gauge connections for aftermarket and factory gauges.
- 15 19 Rear Body Harness This Harness contains: M
 - Tail light, turn signal, reverse light, and running light connections.
 - Hatch connections; third brake light, license plate lights, and rear defroster connections.
 - Fuel pump connections
 - Brake fluid level wiring.
- 20 22 Front Light Harness This Harness contains:
 - Headlight, turn signal, running light connections.
 - Fog lamp wiring.
 - Windshield washer connection.
 - Electric fan relay trigger.
 - Electric Choke.
- Engine Harness This Harness contains:
 - Temperature, oil pressure, tachometer wiring.
 - Ignition system / ECU power.
 - Alternator connections.

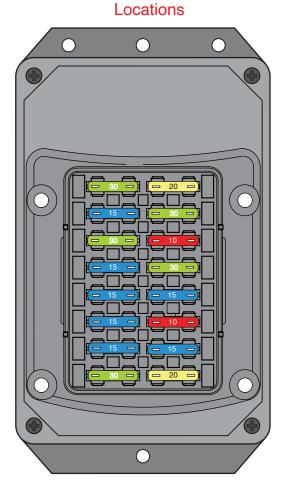


PLEASE READ THIS HELPFUL INSTALLATION TIP. **BEFORE GOING ANY FURTHER!**

Prior to installing the Dash/Main harness in your dashboard, plug all of the fuses (see detailed picture below), Horn Relay, Hazard Flasher and Turn Flasher (see detailed picture below), into this harness.

Fuse label on inside of Fuse Box lid





Fuse Values and

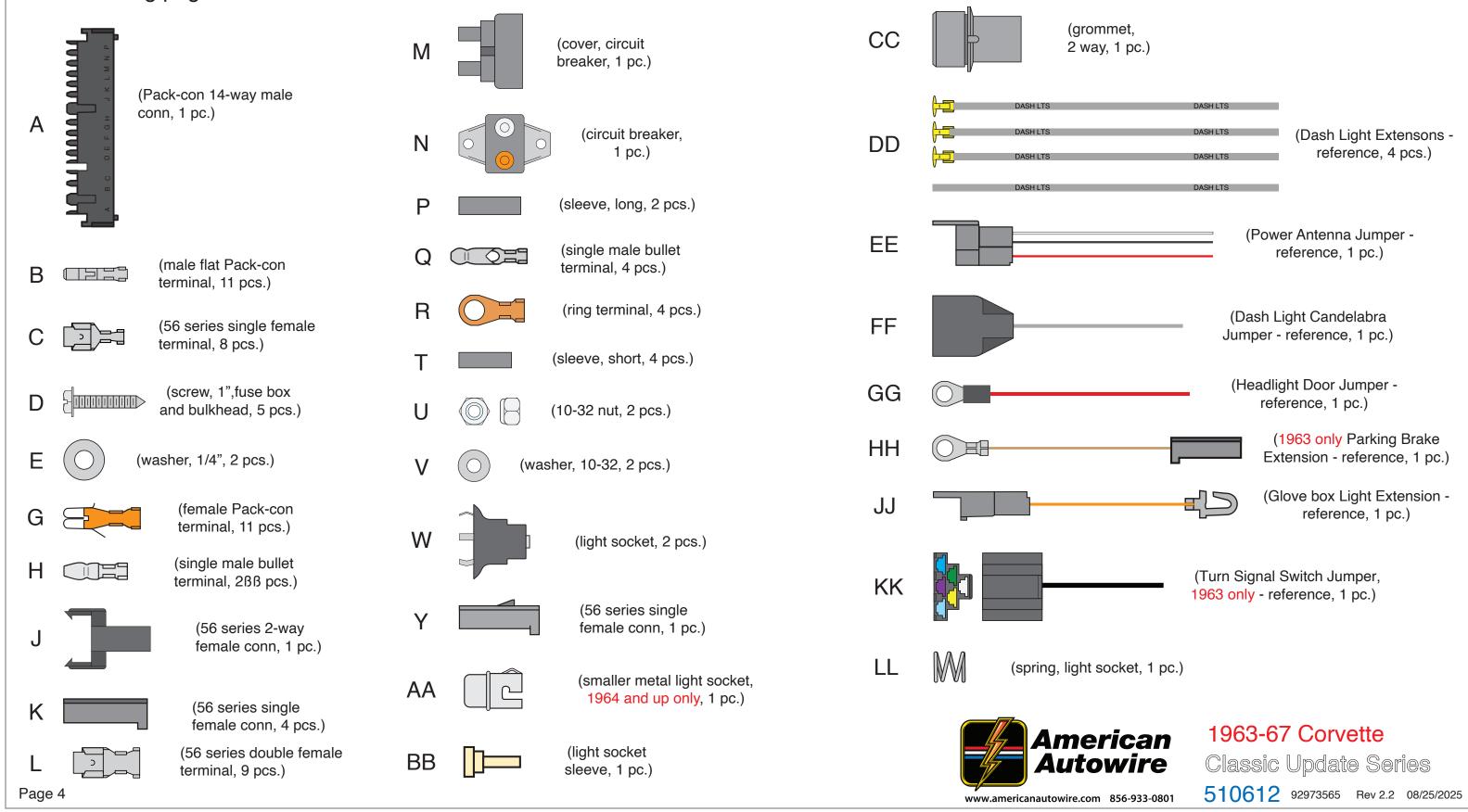
Horn Relay Hazard Flasher Turn Flasher

1963-67 Corvette

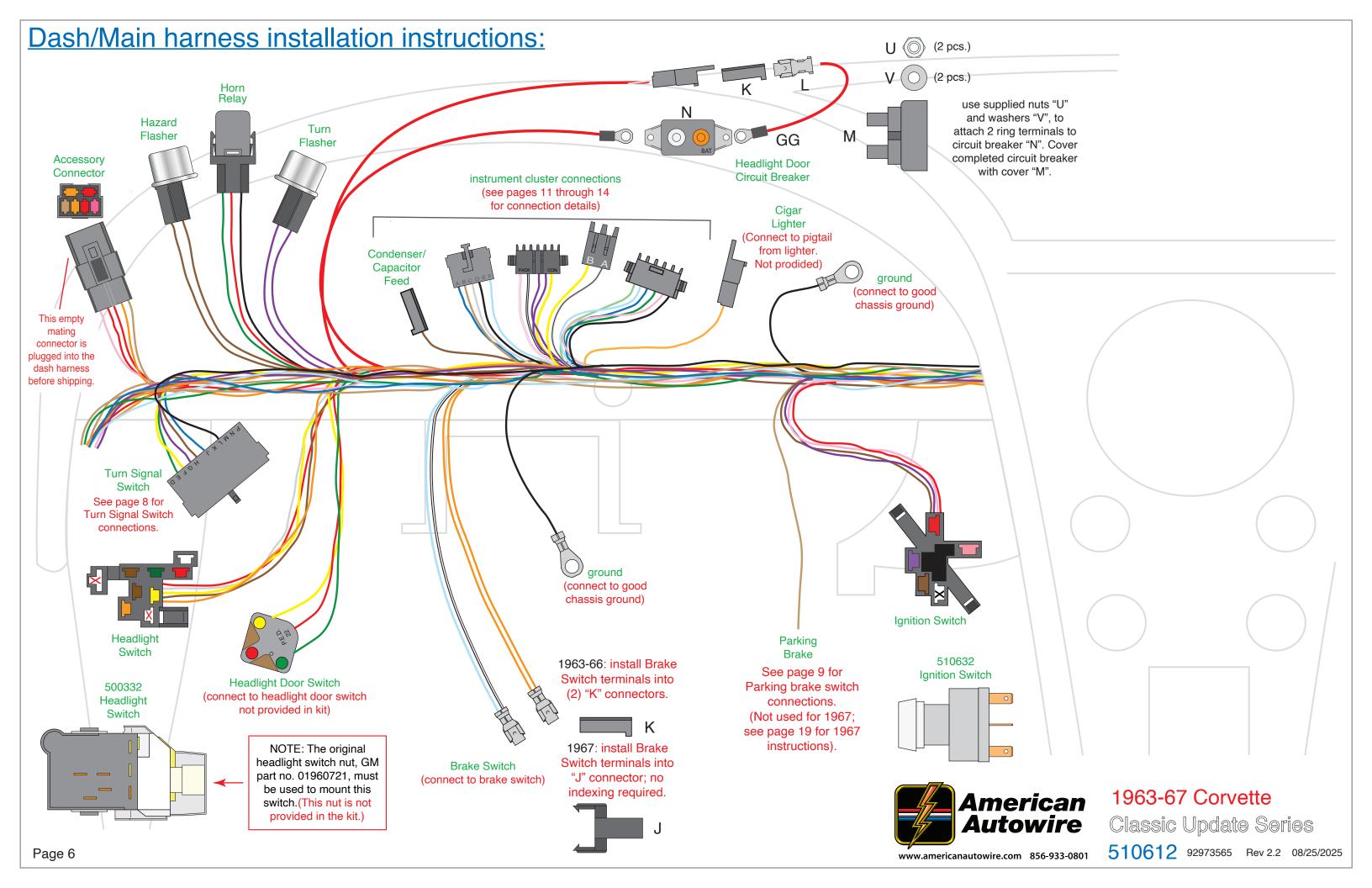
Classic Update Series

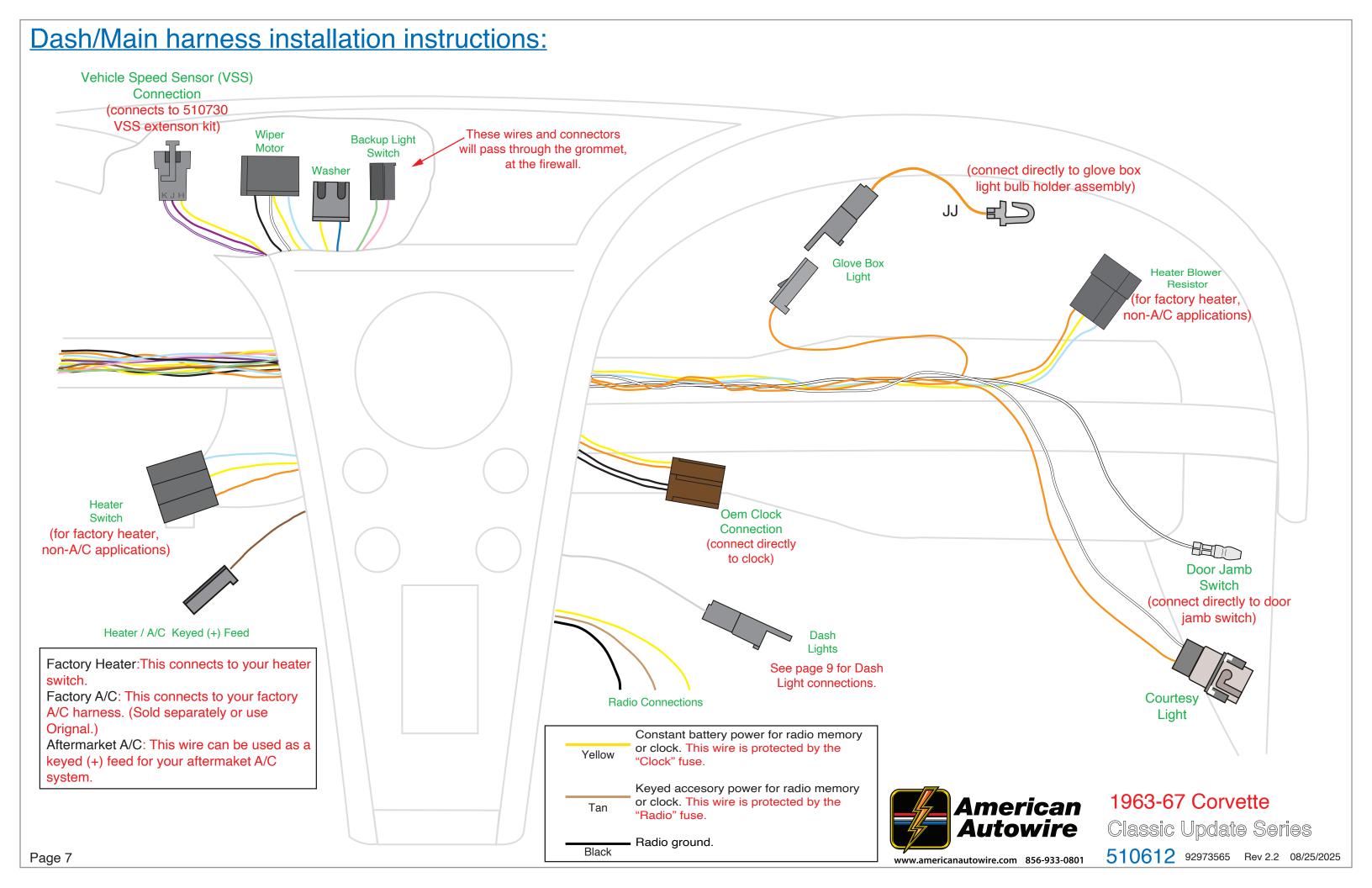
Dash/Main harness installation instructions:

Shown below, are the supplied misc. terminals, plastic connector bodies, hardware, jumpers and extensions that will be used to complete your Dash/Main harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Dash/Main instruction set.



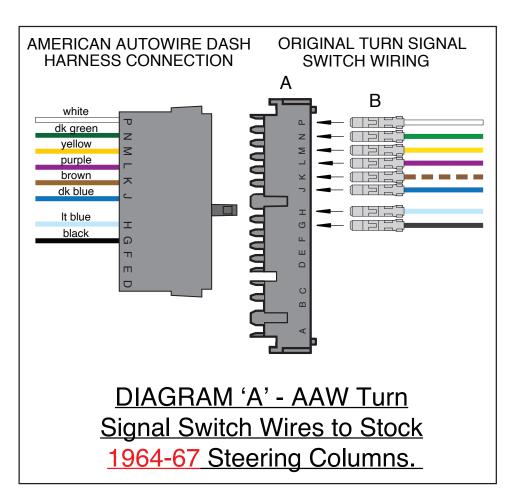
Dash/Main harness installation instructions: rear body ground (connect rear (connect to good body harnesses chassis ground) bag M) Door Jamb Switch (connect to door jamb switch) Courtesy Light **Bulkhead Connetor** (mounts to firewall pass through holefor connection to engine and front light harness) D NOTE: With the wires exiting the top end of the fuse box, position the fuse box on the side wall approximately as shown. There is one mounting hole in the lower flange and three in the top flange; use the two top holes that are on either Fuse Box side of the wires exiting the fuse box. Mark and drill three 1/8" (.125) dia holes in the inside of Dimmer Switch your LH door pillar/kick panel area. Use the three (connect to dimmer switch) screws, "item D", in the 92973549 loose piece kit (for the 510890 dash harness), to attach the fuse **American** box to inside of your LH door pillar/kick panel area. If necesarry. cut back any sound deadener **Autowire** or carpet, to mount the fuse box. Be sure to Inside of LH check for clearances of any accessories that you 500042 might be adding. door pillar area Dimmer www.americanautowire.com 856-933-0801 Switch 1963-67 Corvette Classic Update Series 510612 92973565 Rev 2.2 08/25/2025 Page 5





Dash/Main harness installation instructions:

AMERICAN AUTOWIRE DASH ORIGINAL TURN SIGNAL HARNESS CONNECTION **SWITCH WIRING** KK В dk green UUUUU yellow purple brown dk blue Jooga It blue black horn button DIAGRAM 'A' - AAW Turn Signal Switch Wires to Stock 1963 Steering Columns.



"Table B"

AAW Turn Signal Switch wires to stock 1963-67 Chevrolet Corvette Turn Signal Switch

| AAW Wire Color | AAW Wire | Connector |
|--|--|--|
| AAW Wire Color White Dark Green Yellow Purple Brown Dark Blue Light Blue Black None None None | AAW Wire Printing Brake SW Right Rear Turn Left Rear Turn Turn Switch Feed Turn SW – Hazard Right Front Turn Left Front Turn Horn Relay Ground None None None | Connector Cavity AAW P N M L K (aftermarket only) J H G F E D |
| | | |

Note: 1963 only: Remove the original Turn Signal Switch Connector and replace it with the AAW 14-way connector "A" and Turn Signal Switch Jumper "KK". Crimp on terminal "B" to each of the Jumper "KK" wires and plug them into connector "A" (see Parts Kit 92973549).

1964-67 only: Remove the original Turn Signal Switch Connector and replace it with the AAW 14-way connector "A". Crimp on terminal "B" to each of the original Turn Signal Switch wires and plug them into connector "A" (see Parts Kit 92973549).

Use "Table B" above to align the wires. Also, for all of the vehicles, the Steering Column Horn Button switches ground for the Horn Relay, which then switches power to the Horns, similar to the AAW design.

Accessory Connector

Use the provided 6-way empty connector, which is attached to the 6-way Accessory connector on the Dash Harness, and terminals "C" and "L" to add power wires (not provided) for the following optional systems:

| Wire Color | <u>Printing</u> | Fuse # | Fuse Block Cover Fuse | e rating |
|------------|-------------------|--------|-----------------------|----------|
| Red | CB-RADIO | 7 | Hazard | 15A |
| Tan | FUEL PUMP | 16 | Fuel Pump | 20A |
| Orange | POWER SEATS | 3 | Pwr Seats | 30A |
| Red | POWER LOCKS | 5 | Pwr Locks | 15A |
| Pink | POWER WINDOWS | 8 | Pwr Window | 30A |
| Orange | 12V BATTERY FUSED | 1 | Batt-Spare | 30A |

Description

Fused 12 volt BATTERY feed for cruise control (may also be used to feed power to another battery circuit).

Fused 12 volt IGNITION feed for fuel pump (may also be used to feed power to another ignition circuit).

Fused 12 volt BATTERY feed for power seats (may also be used to feed power to another battery circuit).

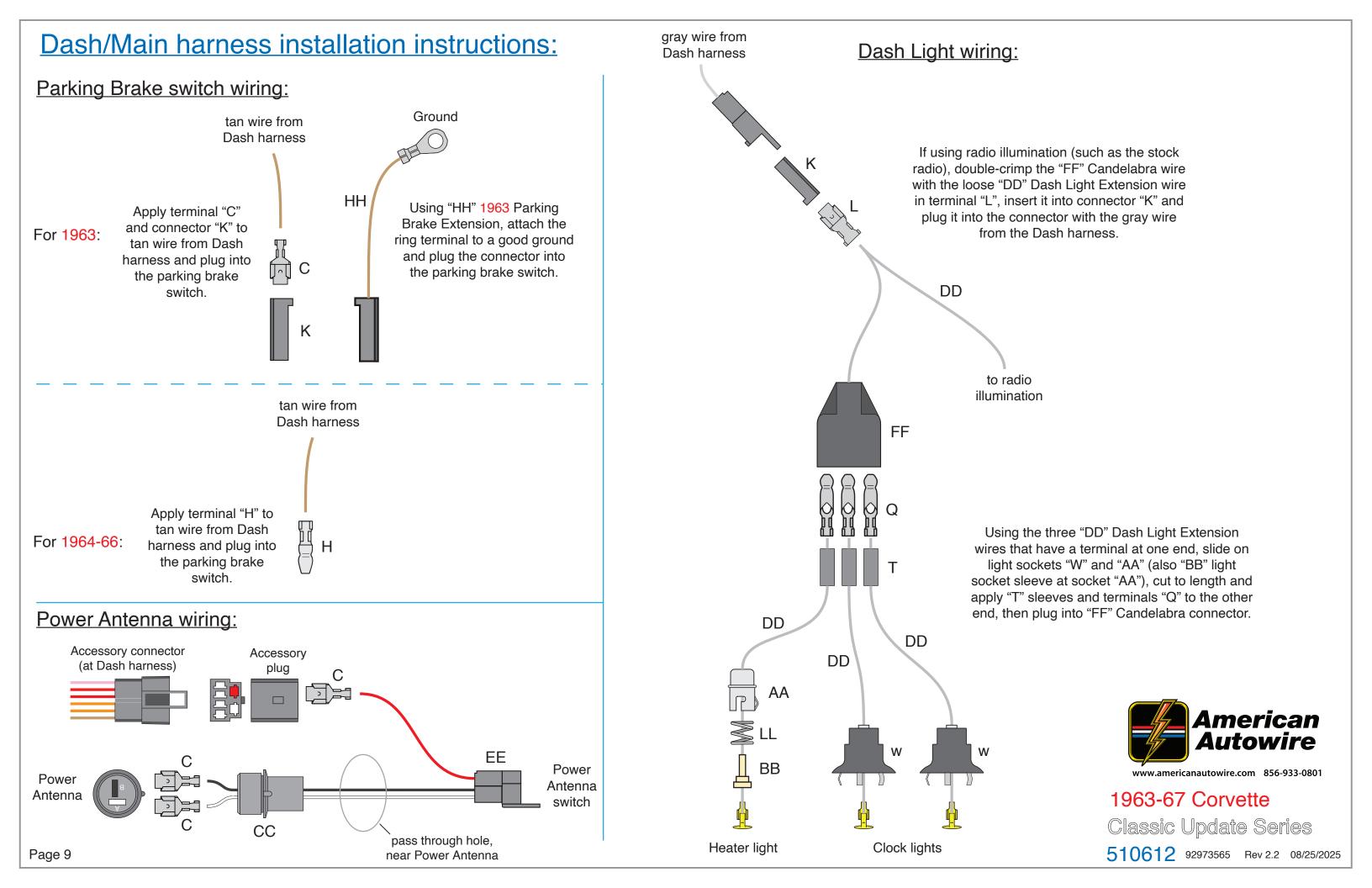
Fused 12 volt BATTERY feed for power door locks (may also be used to feed power to another battery circuit).

Fused 12 volt ACCESSORY feed for power windows (may also be used to feed power to another accessory circuit).

Fused 12 volt BATTERY feed (may also be used to feed power to a battery circuit).

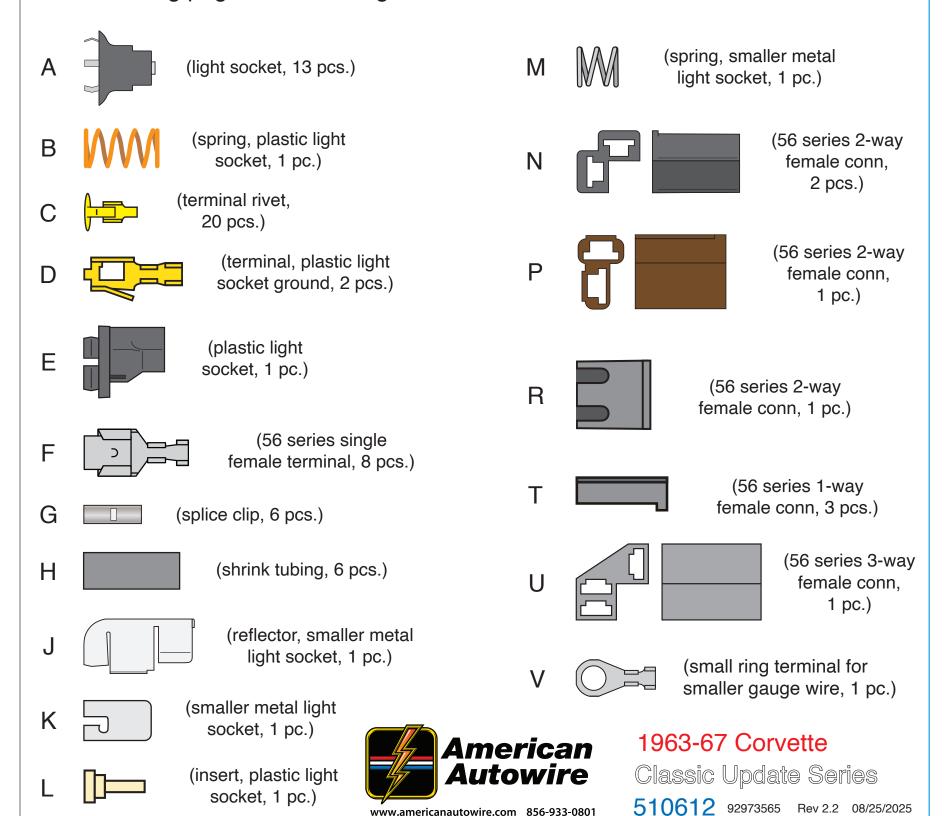


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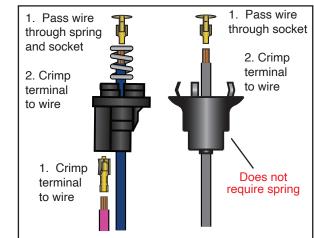


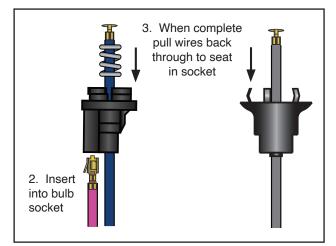
Gauge Cluster harness installation instructions:

Shown below, are the supplied misc. terminals, plastic connector bodies, light sockets and hardware that will be used to complete your Gauge Cluster harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Gauge Cluster instruction set.



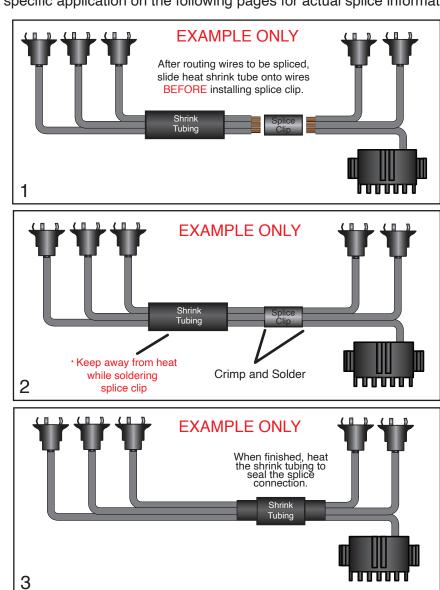
How to install lamp sockets and lamp socket terminals.





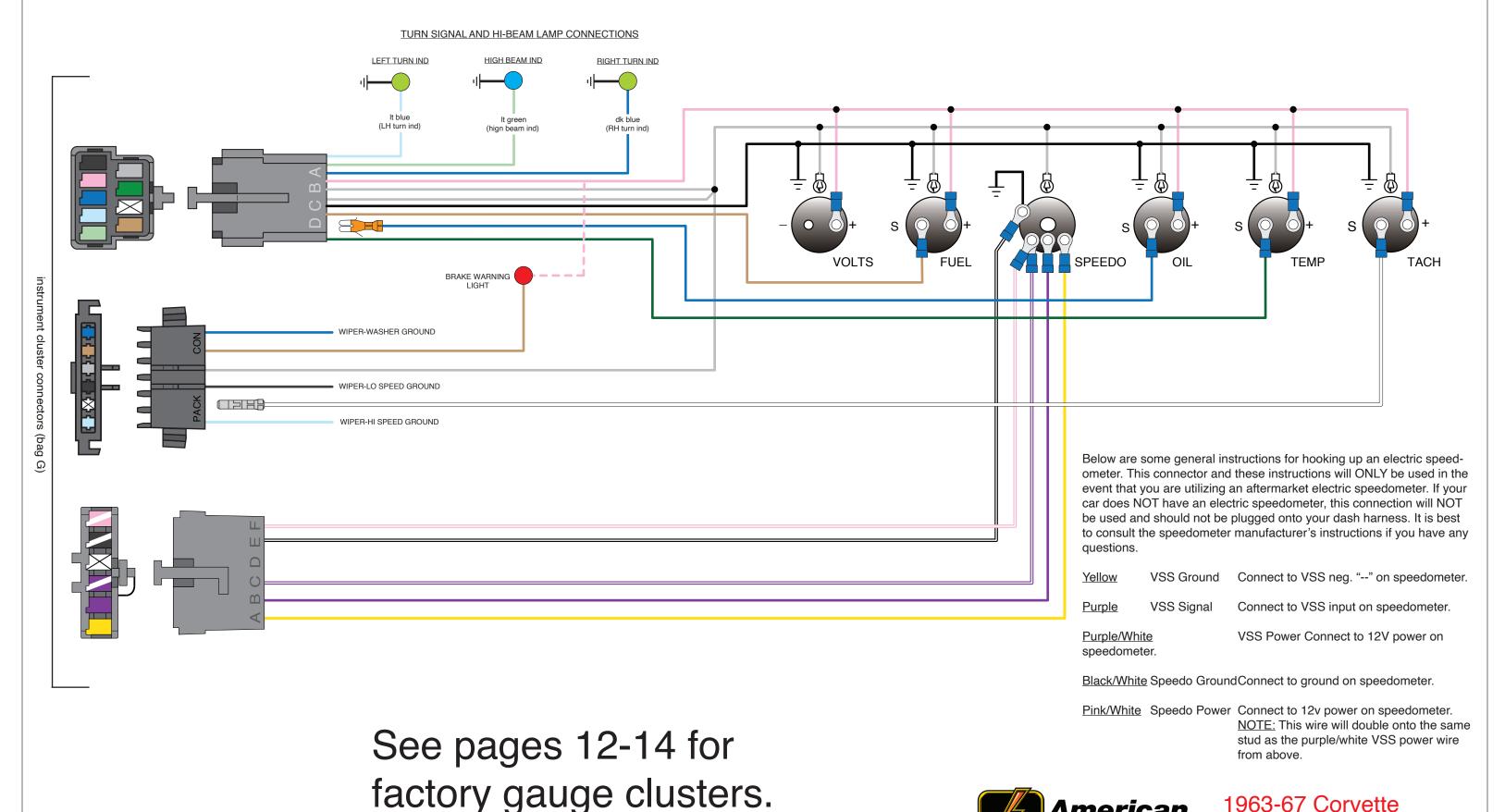
How to use the splice clip to join multiple wires.

Below is just an **EXAMPLE** of how to use the splice clip and shrink tubing; see your specific application on the following pages for actual splice information.





Gauge Cluster harness (aftermarket gauges) installation instructions:



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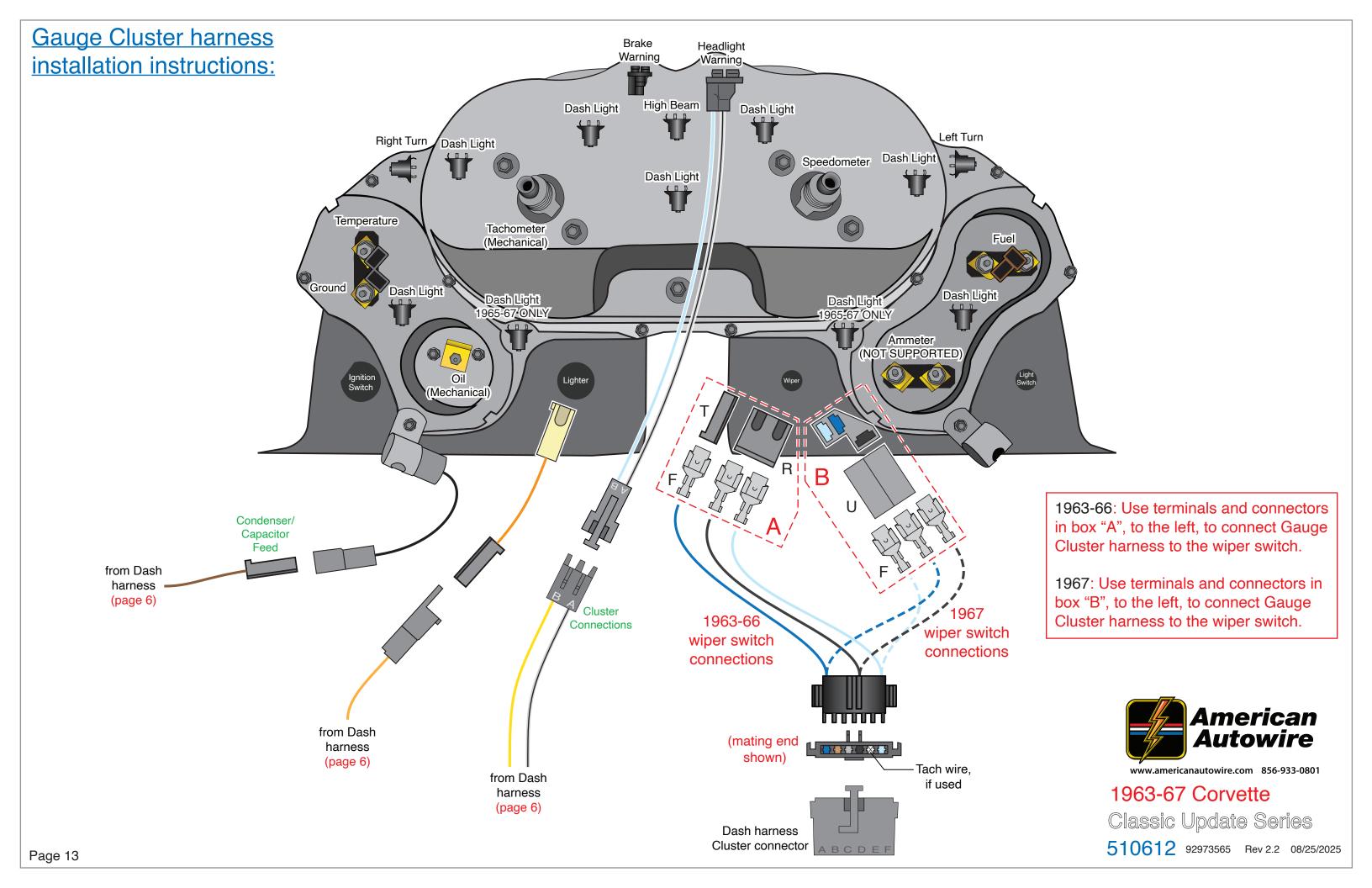
American

Autowire

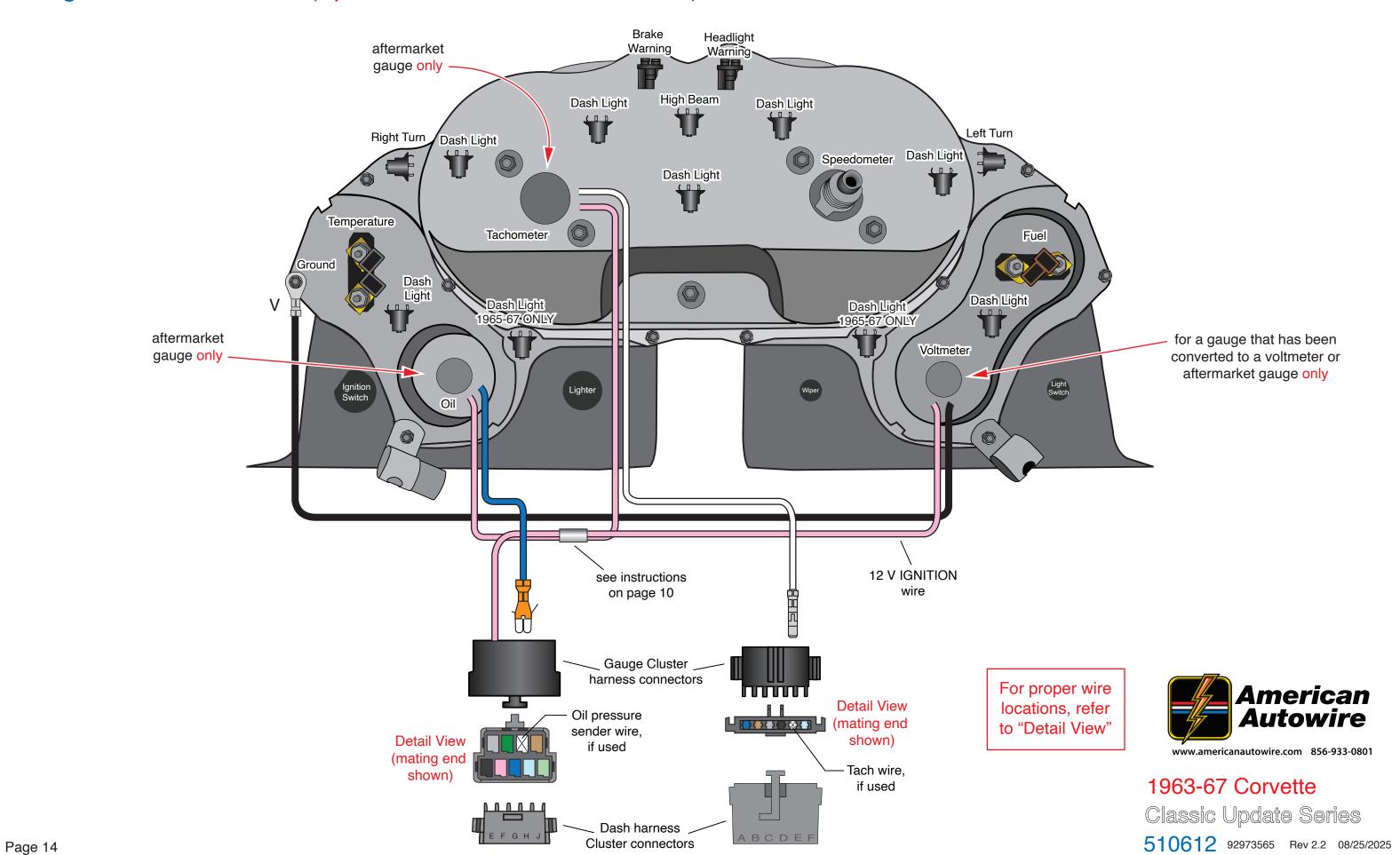
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Gauge Cluster harness installation instructions: Brake Headlight Warning Warning High Beam Dash Light Dash Light Left Turn Right Turn Dash Light Speedometer Dash Light Dash Light Temperature Tachometer Fuel (Mechanical) Dash Light Dash Light Dash Light 1965-67 ONLY Dash Light 1965-67 ONLY from Gauge Cluster harness connector from Gauge Cluster Ammeter (NOT SUPPORTED harness connector Light Switch Ignition Switch Oil View "A" Mechanical For proper wire locations, refer to "Detail View" see instructions on page 10 see instructions on page 10 Gauge Cluster harness connectors View "A" American **Detail View** Oil pressure (mating end sender wire, **Detail View** shown) if used (mating end www.americanautowire.com 856-933-0801 shown) Tach wire, if used 1963-67 Corvette Classic Update Series Dash harness ABCDEF 510612 92973565 Rev 2.2 08/25/2025 Cluster connectors Page 12

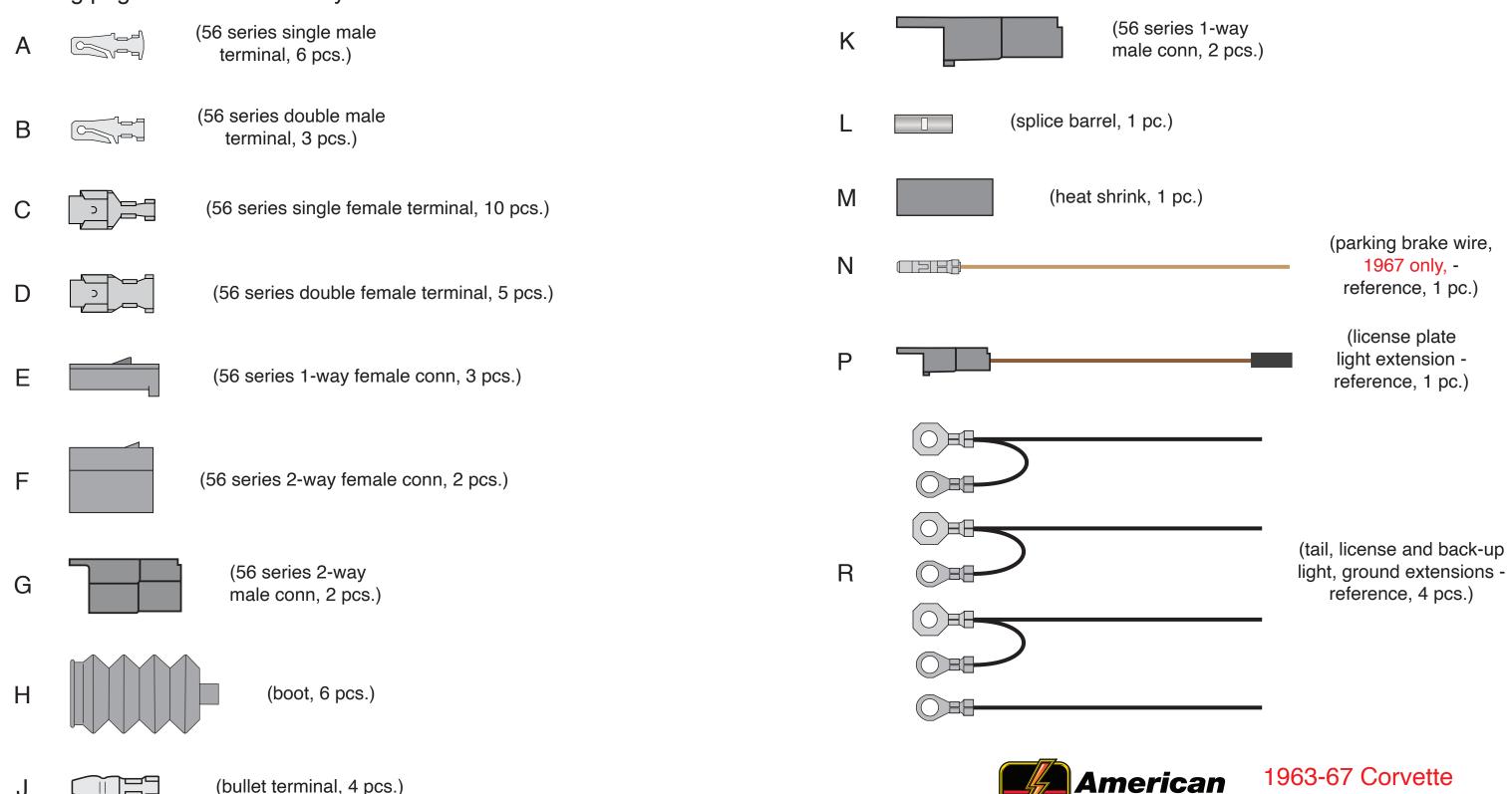


Gauge Cluster harness (optional aftermarket functions) installation instructions:



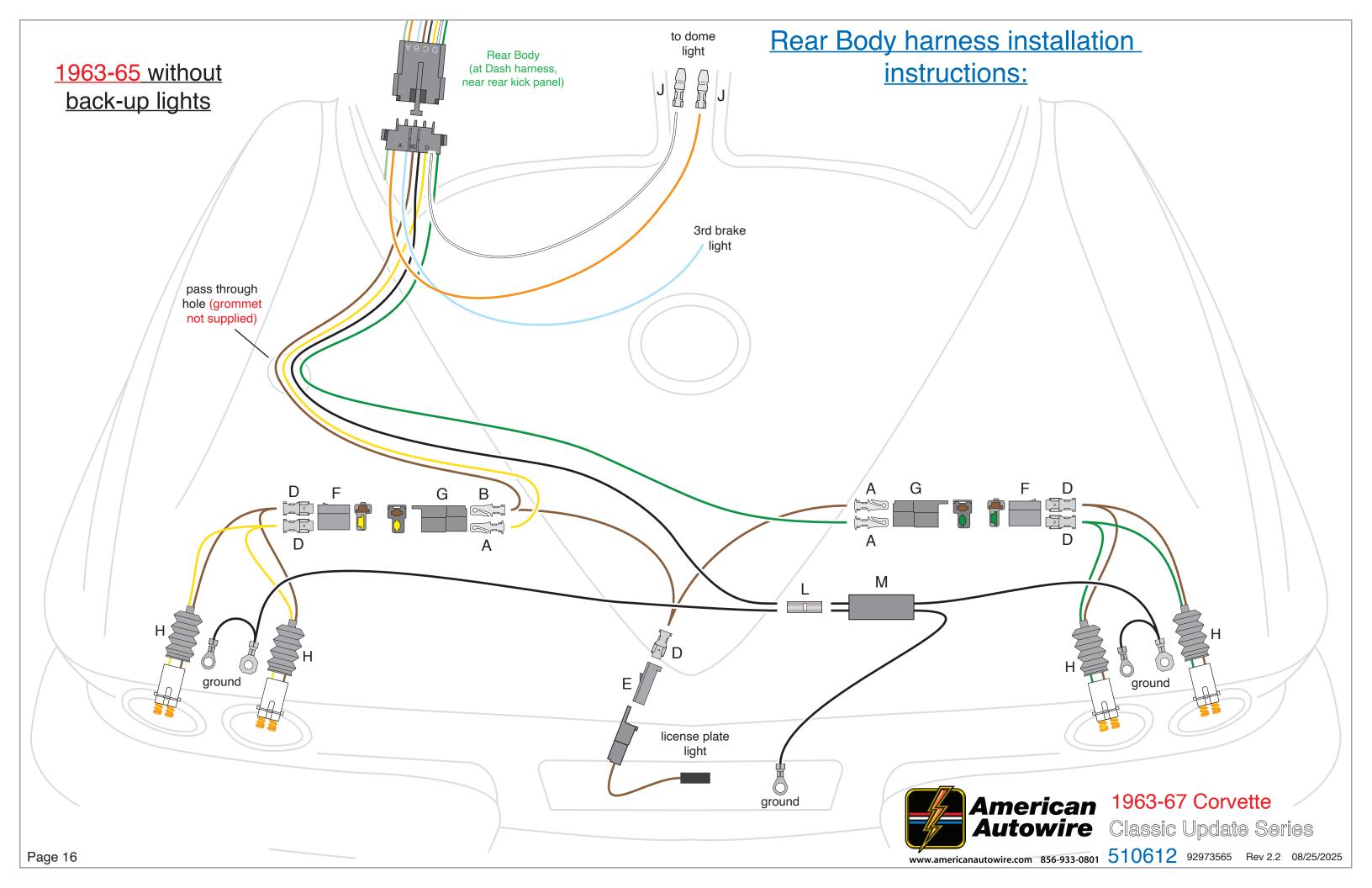
Rear Body harness installation instructions:

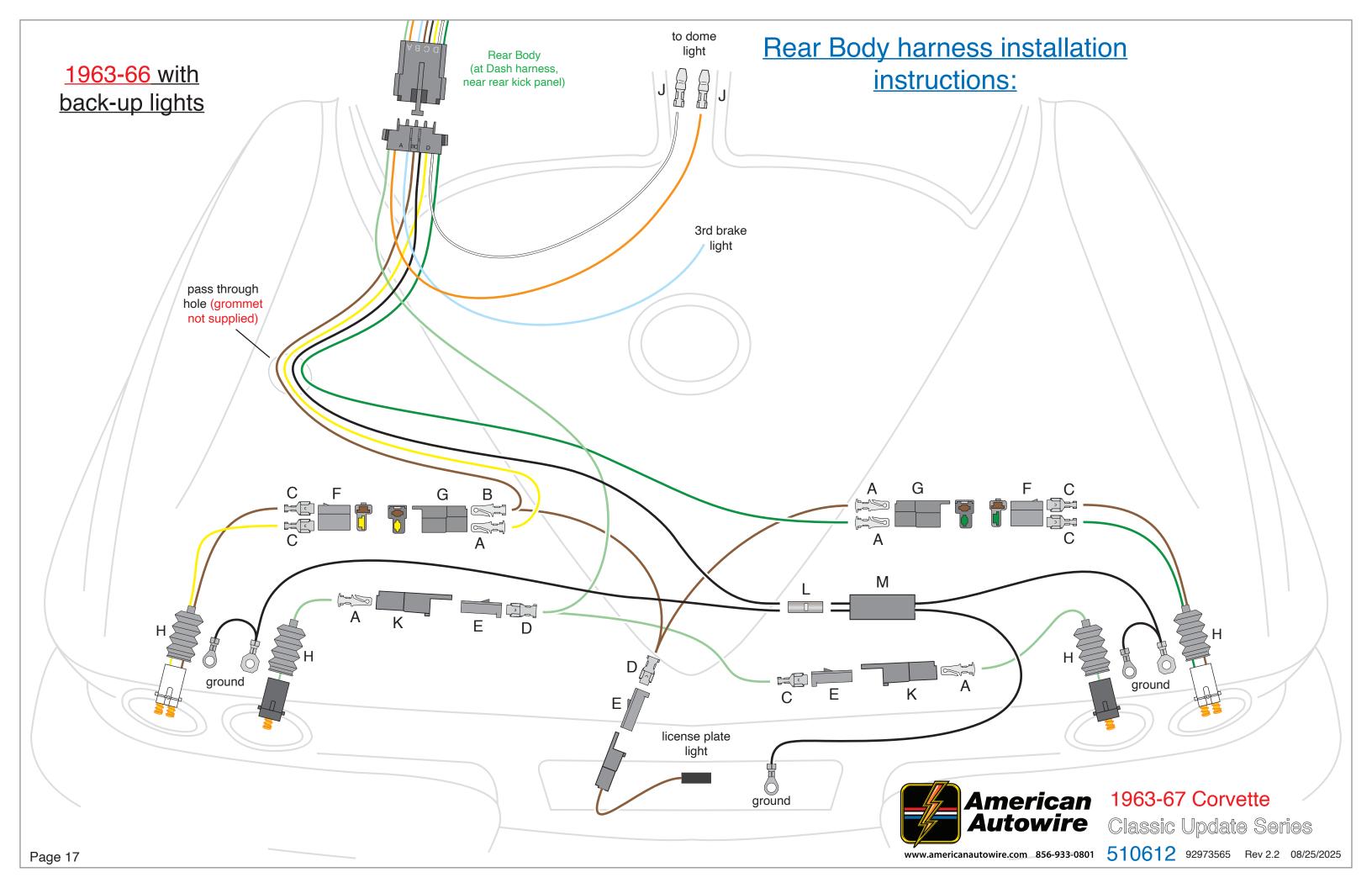
Shown below, are the supplied misc. terminals, plastic connector bodies, boots and wire extensions that will be used to complete your Rear Body harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Rear Body instruction set.

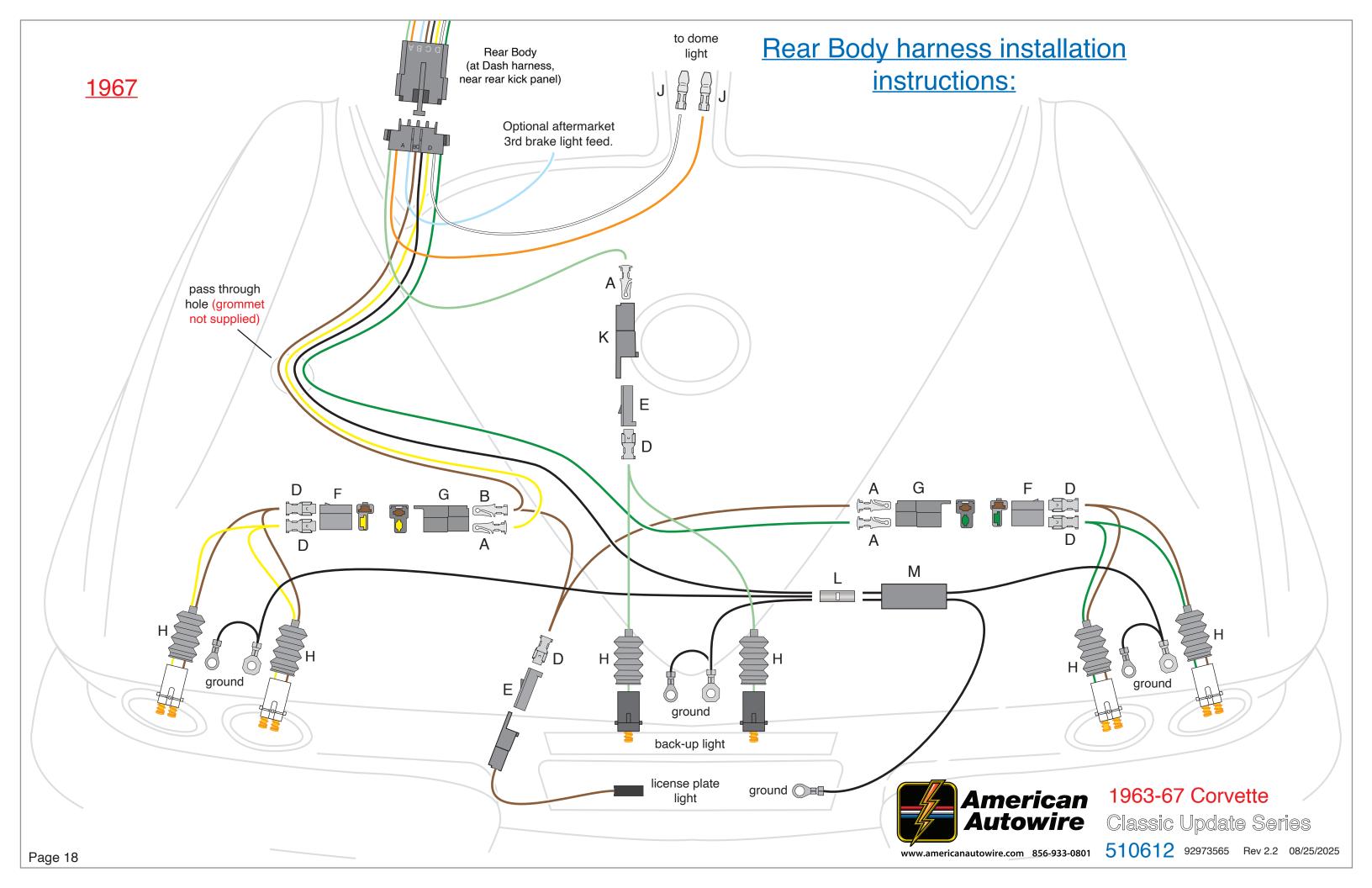


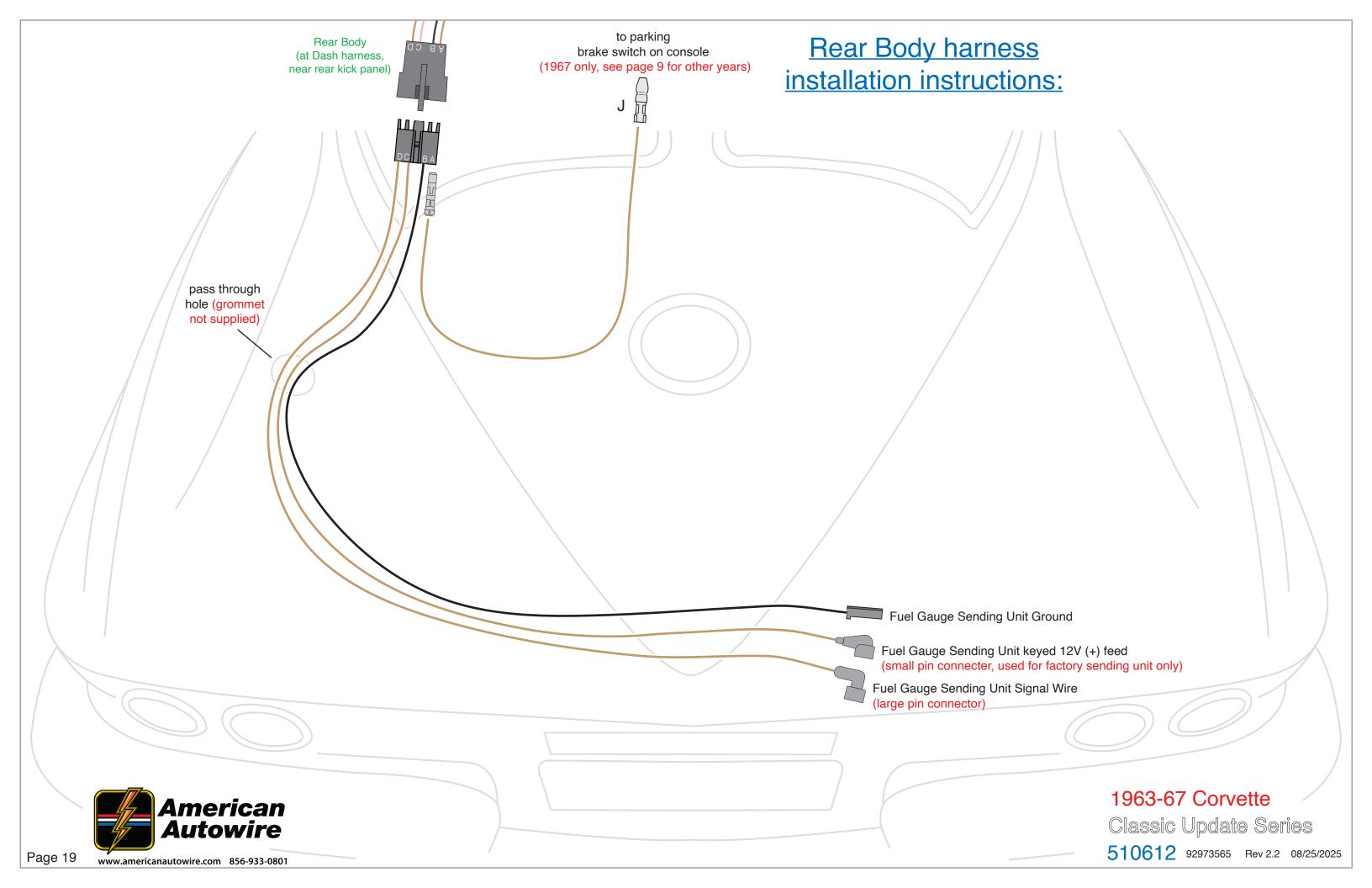
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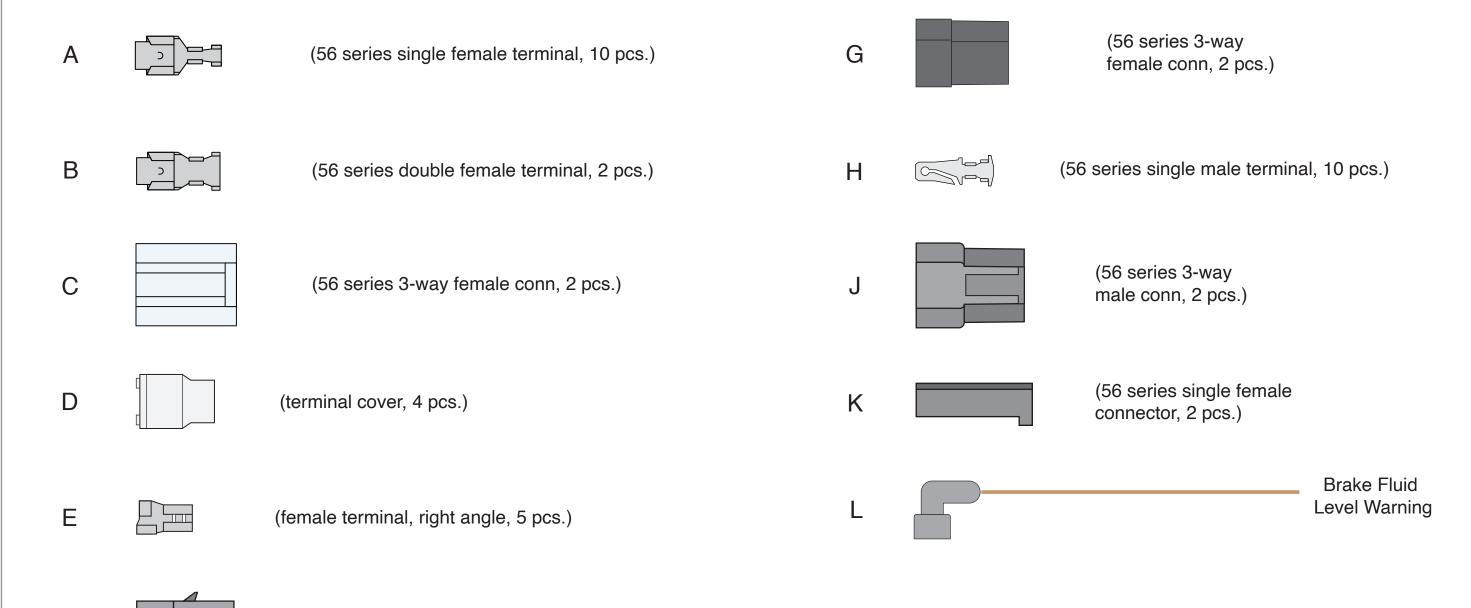




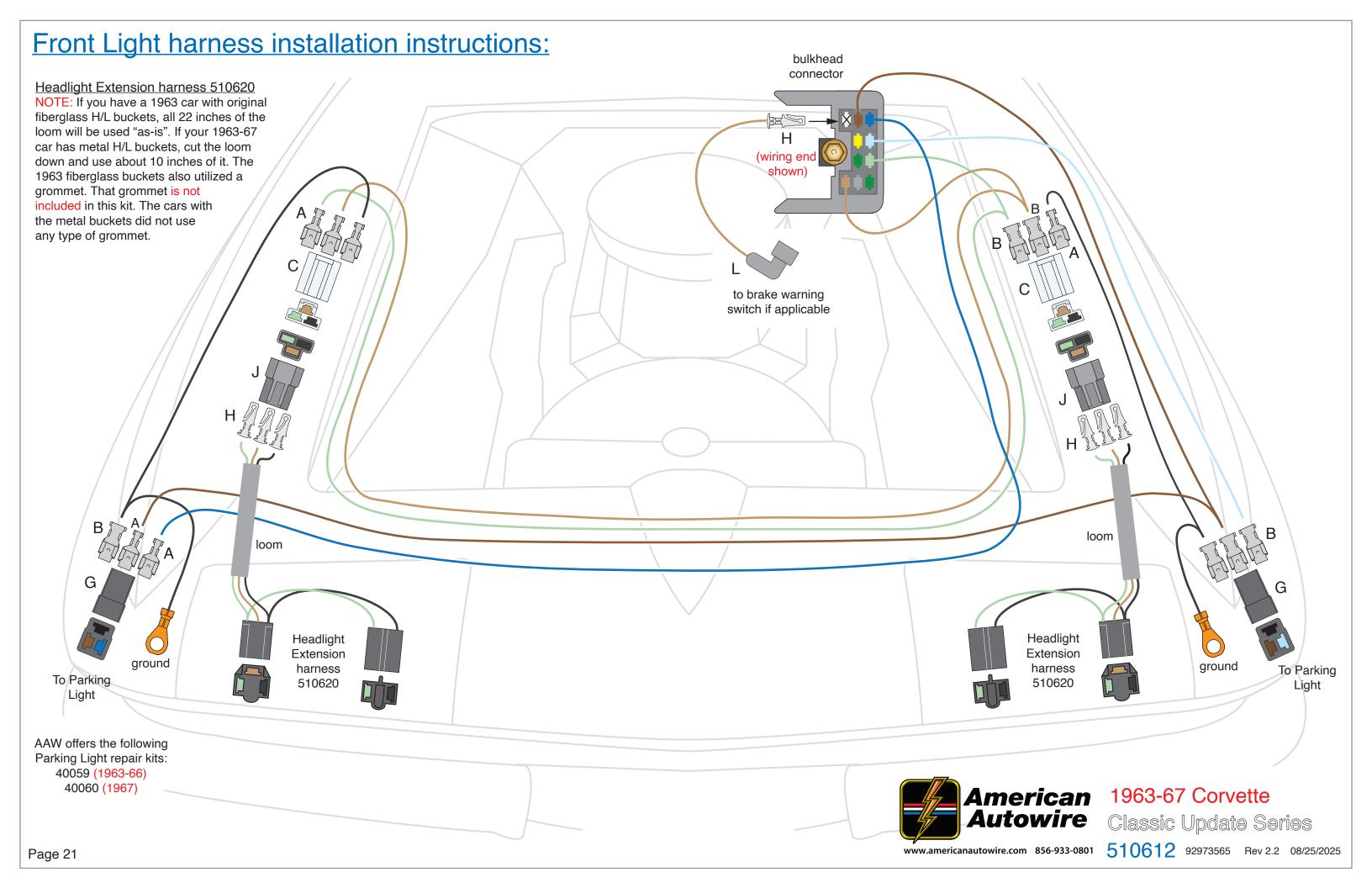
Front Light harness installation instructions:

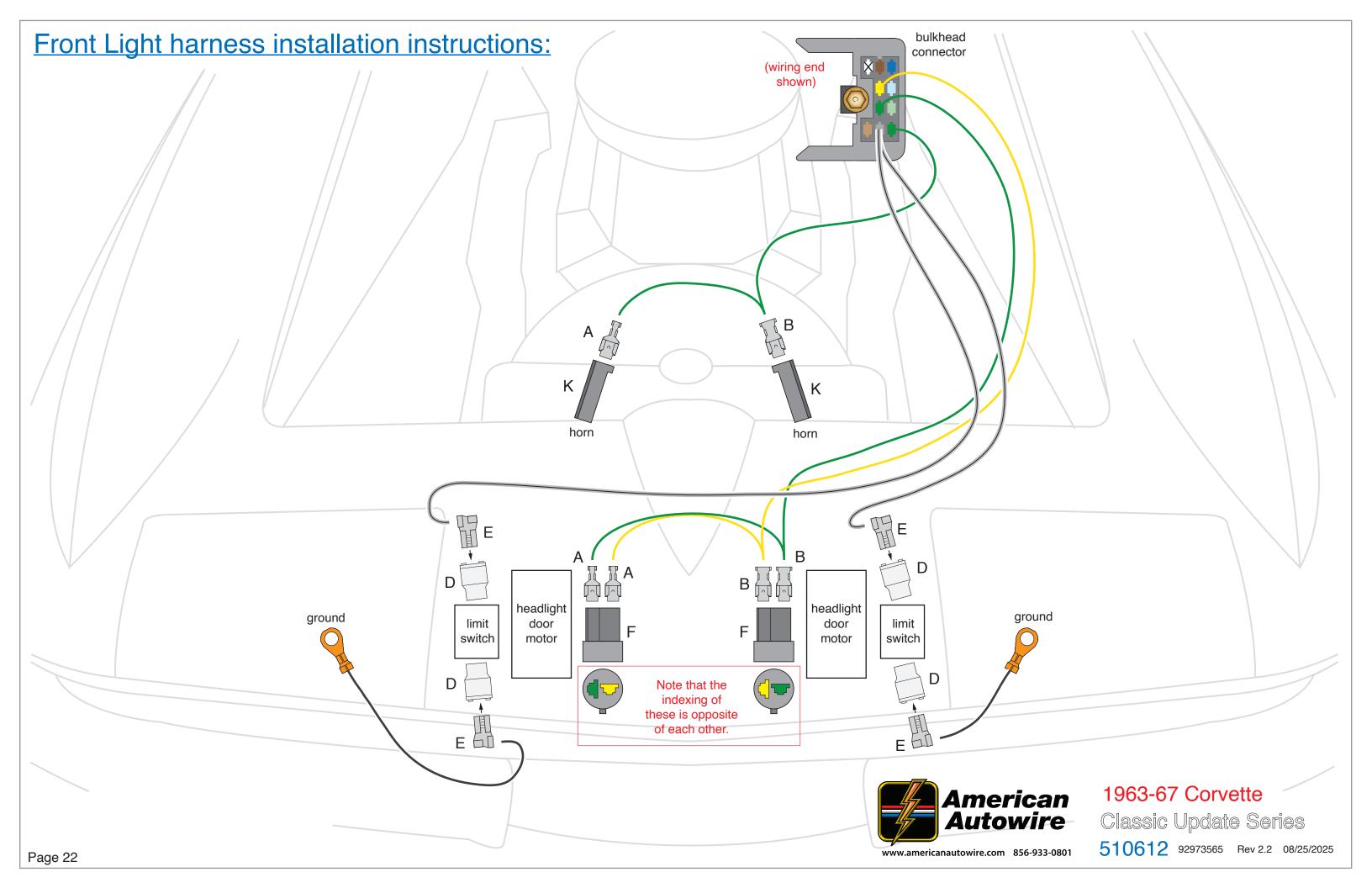
(56 series 2-way female conn, 2 pcs.)

Shown below, are the supplied misc. terminals and plastic connector bodies, that will be used to complete your Front Light harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Front Light instruction set.



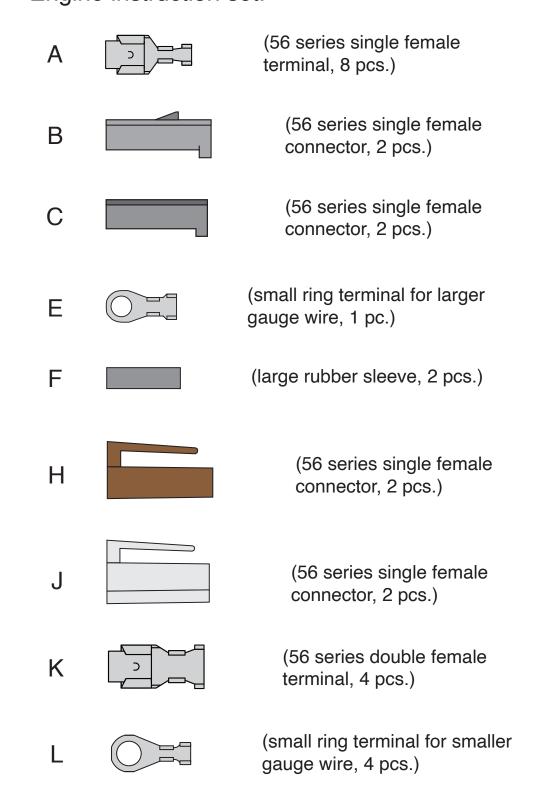




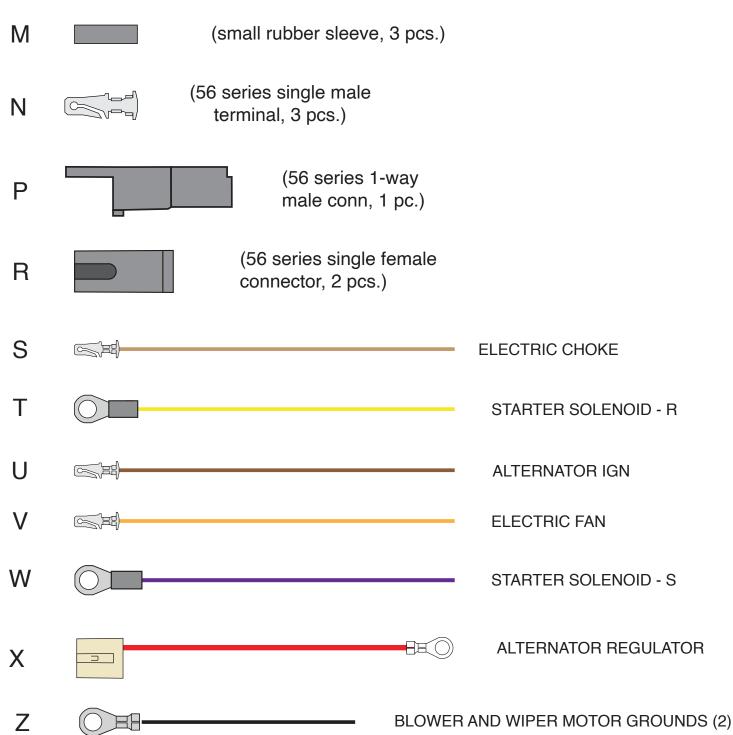


Engine harness installation instructions:

Shown below, are the supplied misc. terminals, sleeves, plastic connector bodies and wires, that will be used to complete your Engine harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Engine instruction set.

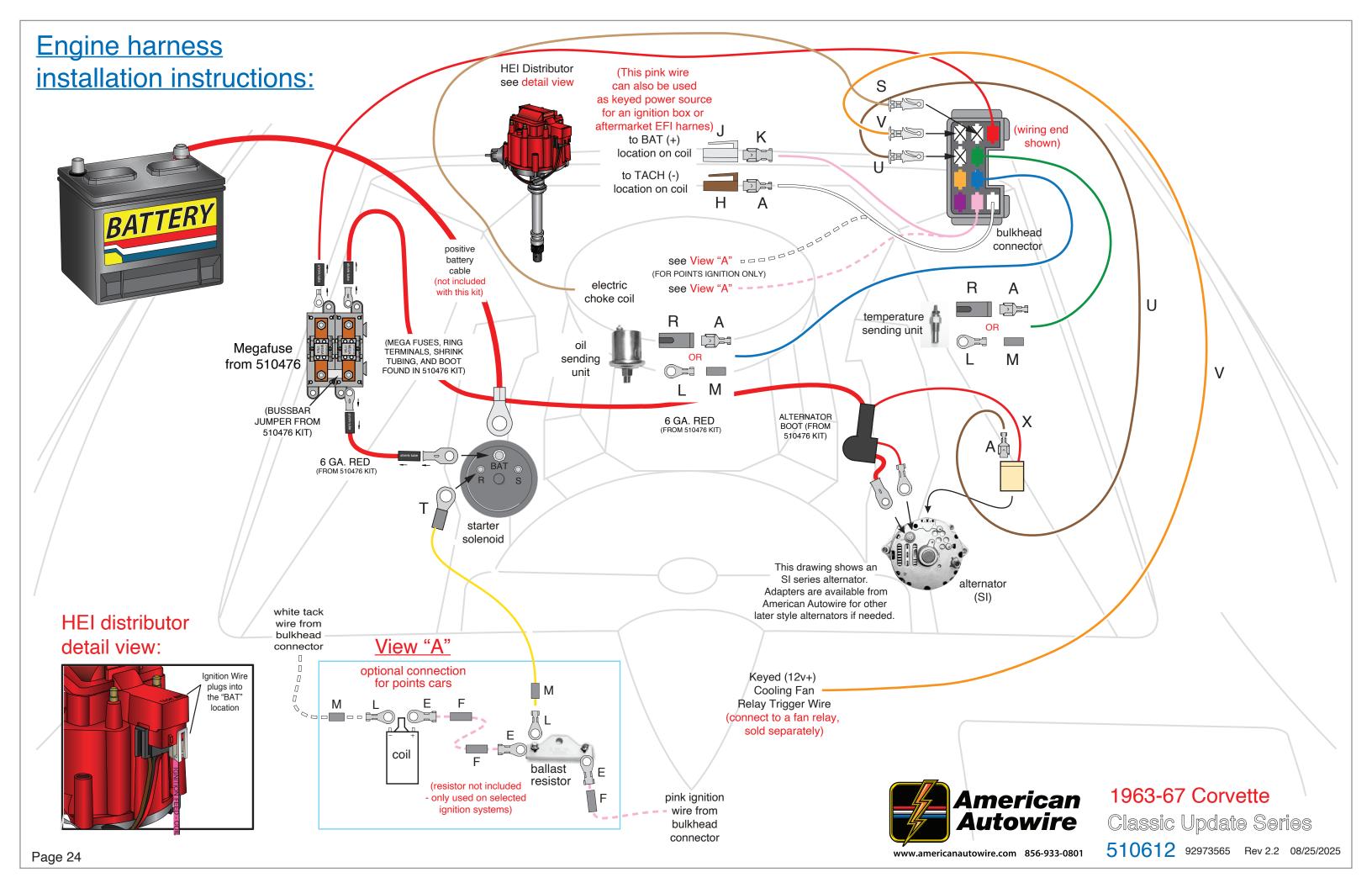


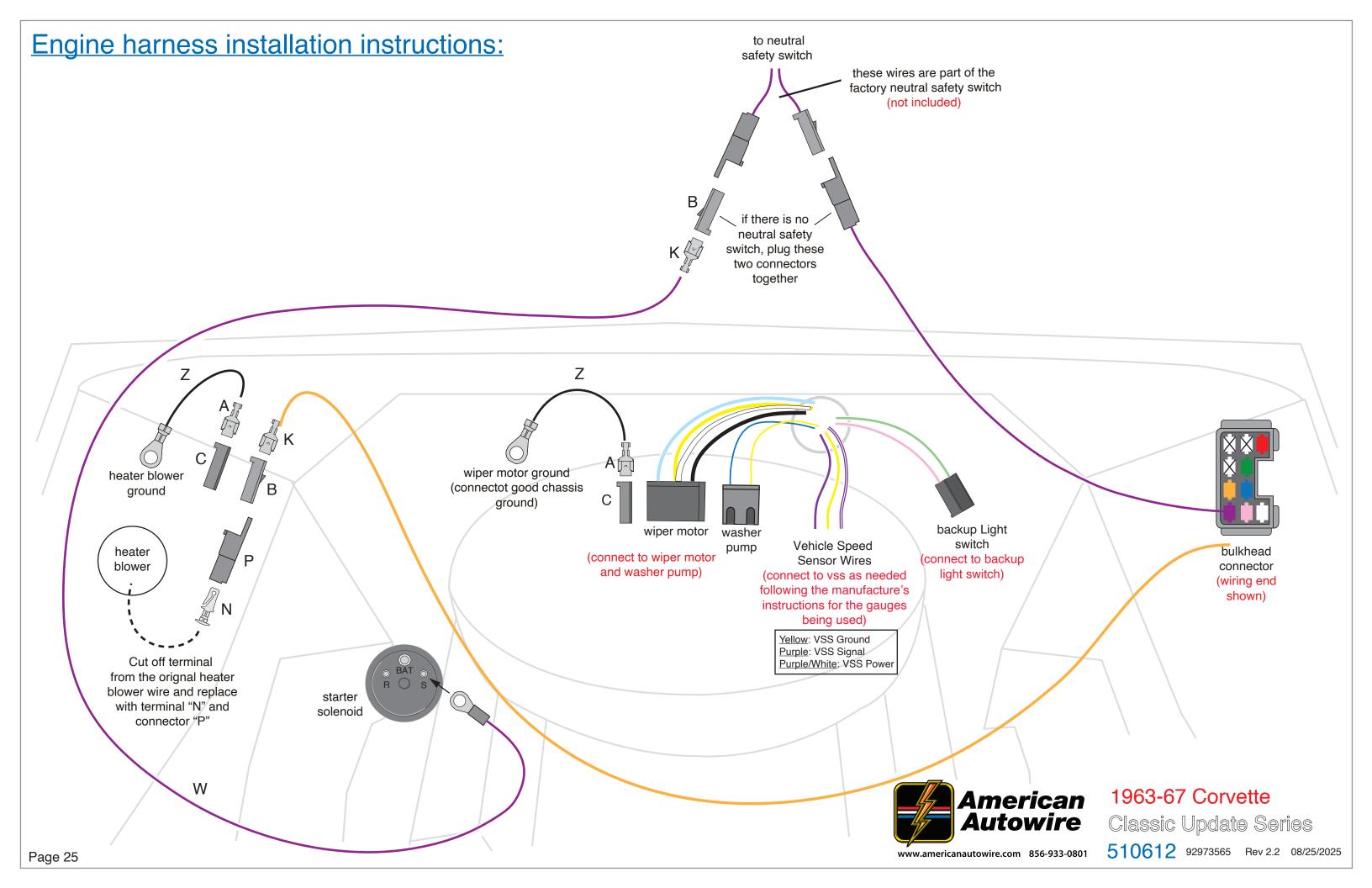
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STEP 3: RECONNECT YOUR BATTERY:

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.

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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 Values and Locations

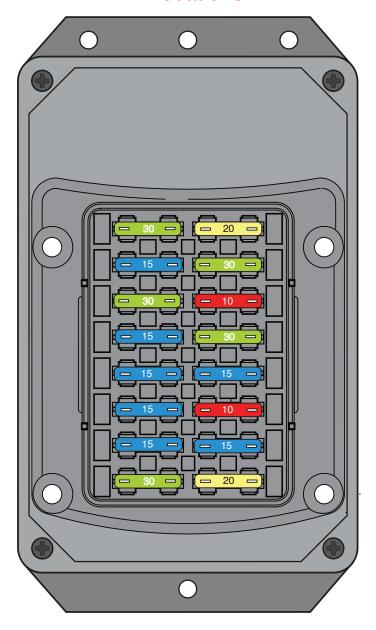
Fuse/Circuit table

Fuse Box lid



Fuse label on inside of Fuse Box lid

| $\overline{}$ | | |
|----------------------------|---|-----------------------------|
| Batt - Spare 30A - BAT | 1 | 9 Wiper 20A - ACC |
| Clock/Radio 15A - BAT | 2 | 10 Heat/AC 30A - ACC |
| Power Seat 30A - BAT | 3 | 11 Radio 10A - ACC |
| Park Lights 15A - BAT | 4 | 12 Engine Fan 30A - ACC |
| Power Locks 15A - BAT | 5 | 13 Turn 15A - IGN |
| Stop/Courtesy 15A - BAT | 6 | 14 Gauges, B/U 10A - IGN |
| Hazard 15A - BAT | 7 | 15 Elec. Choke 15A - IGN |
| Pwr. Window 30A - IGN | 8 | 16 Fuel Pump 20A - IGN |



| | Cover Label | Rating | Description |
|----|-----------------|--------|--|
| 1 | Bat-Spare | 30A | Battery feed spare |
| 2 | Clock - Bat | 15A | Battery feed for a Clock and a Radio. |
| 3 | Power Seats | 30A | Battery feed for optional Power Seats. |
| 4 | Park Lights | 15A | Battery feed to Park Lights |
| 5 | Power Locks | 15A | Battery feed to Power Locks |
| 6 | Stop / Courtesy | 15A | Battery feed for Brake Lights and Courtesy Lights. |
| 7 | Hazard | 15A | Battery feed for optional Hazard Lights and optional battery feed. |
| 8 | Power Window | 30A | Ignition feed for optional Power Windows. |
| 9 | Wiper | 20A | 12V Accessory feed for Wiper/Washer system. |
| 10 | Heat / AC | 30A | 12V Accessory feed for Heater/AC System. |
| 11 | Radio | 10A | 12V Accessory "on-off" feed to Radio. |
| 12 | Engine Fan | 30A | 12V Accessory for an optional Electric Fan System, Relay key-on trigger |
| 13 | Turn | 15A | Ignition feed for the Turn Signals. |
| 14 | Gauges, B/U | 10A | Ignition feed for Dash Gauges/Warning Lights, Back Up Lights |
| 15 | Electric Choke | 15A | Ignition feed for an Electric Choke, ECM Ignition Feed |
| 16 | Fuel Pump | 20A | Ignition feed for an Electric Fuel Pump |



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