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DESIGN ASSISTANCE PROVIDED BY:



1987-89 Ford Mustang

Classic Update Series

510547

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92970659 Rev 4.0 06/26/2024

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.



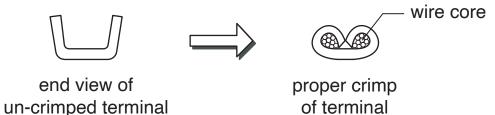
AAW offers a great terminal crimping video entitled "Proper Crimping Video". It can be viewed by visiting YouTube.

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

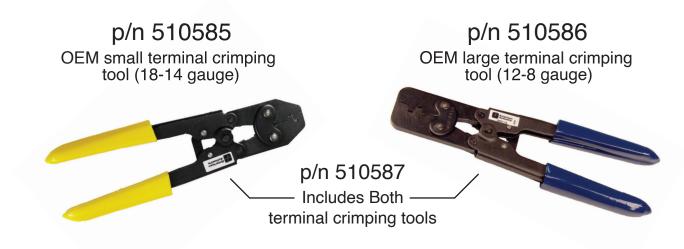
Youtube Channel: www.youtube.com/user/WiringHarness



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.



We carry many accessories for your 1987-89 Ford Mustang.



p/n 500802 GM "SI" series to Ford "3G" internal regulated alternator



STEP 1: DISCONNECT YOUR BATTERY:

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

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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: Dash Harness - This is the main harness in the kit and contains: - Starter solenoid connections. - Door jamb switches. - Wiper module and switch connections - Wiper motor connections - Brake light switch connection. - Defrost module and switch connections. - Neutral safety switch connection. - Headlight and fog light connections. Н 15, 16 Gauge Cluster Harness - This Harness contains: - Gauge connections for aftermarket gauges. M 17, 18 Rear Body Harness - This Harness contains: - 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. 19 - 22 Front Light Harness - This Harness contains: - Headlight, turn signal, running light connections. - Fog lamp wiring. - Windshield washer connection. - Electric fan relay trigger. - Brake fluid level wiring.

23 - 25 Engine Harness - This Harness contains:

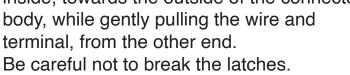
- Temperature, oil pressure, tachometer wiring.
- Ignition system / ECU power.
- A/C compressor connections.
- Alternator connections.

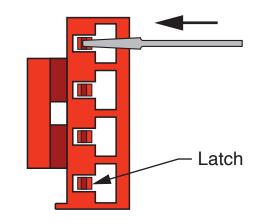


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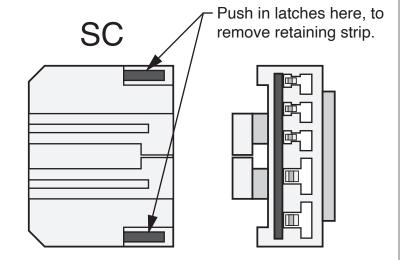
Connector terminal removal instructions:

You will need to remove the terminals, from the connectors that are to be salvaged from your original harnesses. Looking into the openings in the mating end of the connector, you will need to push the small latches inside, towards the outside of the connector body, while gently pulling the wire and terminal, from the other end.

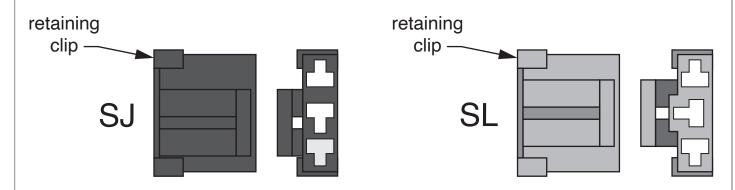




The white Defrost Module connector to the right, needs to have the black retaining strip removed, prior to pushing the latches, to release the terminals. This retaining strip will be replaced, after the new terminals are installed. If the strip should break, during removal, the connector will still work without it.



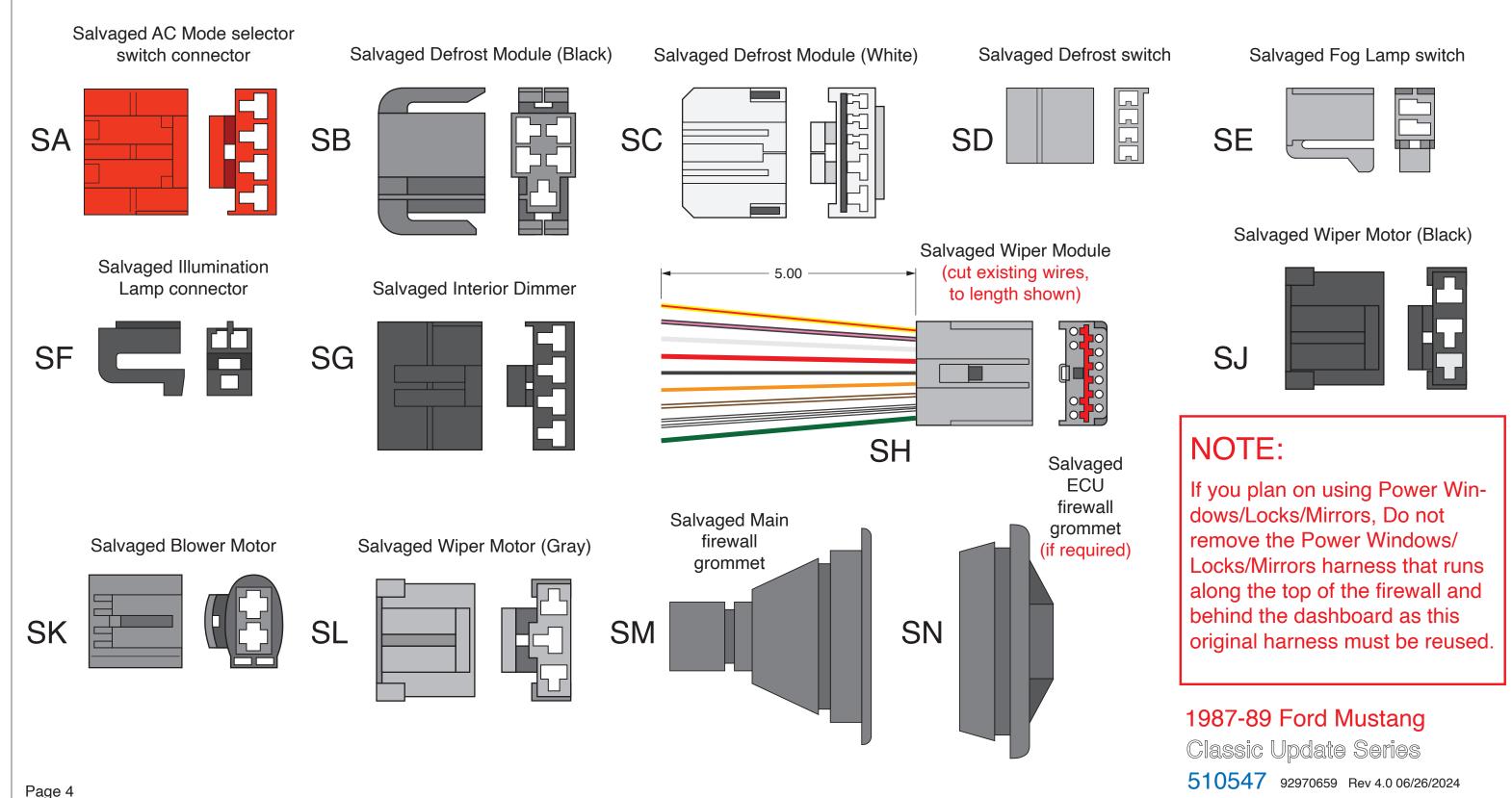
The two Wiper Motor connectors, have a retaining clip on the wire side, that must be removed, prior to pushing the latches to release the terminals. These retaining clips will be replaced, after the new terminals are installed. If the clips should break, during removal, the connectors will still work without them.



The terminals are not shown in these views, for clarity.

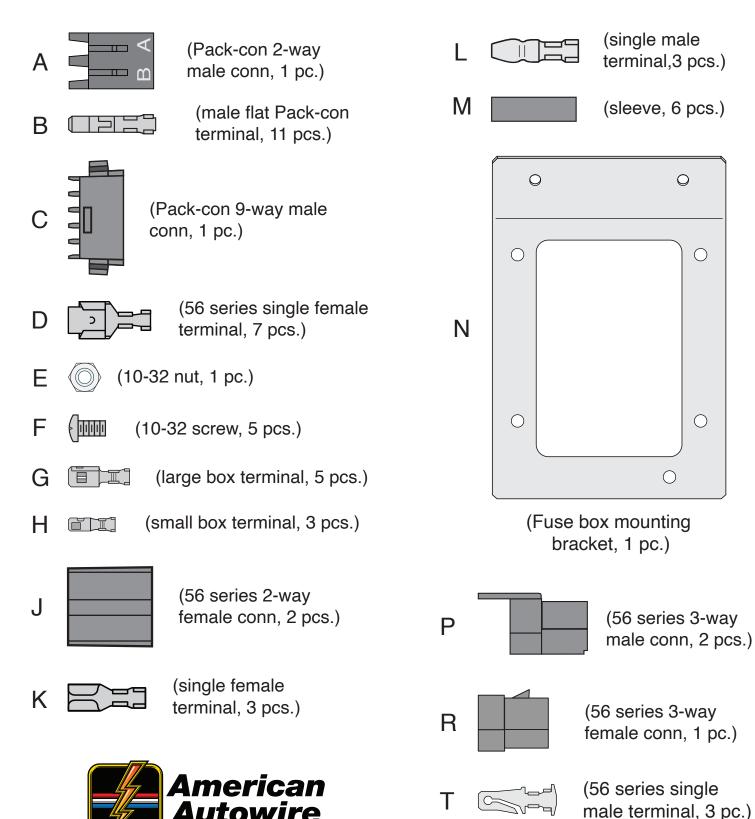
Dash/Main Harness installation instructions:

Shown below, are the connectors and grommets you will need to salvage/remove from your original Dash harness, that will be re-used (along with the supplied parts, on the following page) 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 (also see page 17, for parts salvaged from your original Rear Body harness). Terminal removal instructions, are on page 3. The original "donor" harnesses, for these salvaged parts, are in years 1987-93.



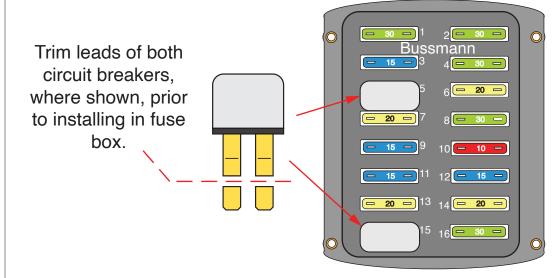
Dash/Main Harness installation instructions:

Shown below, are the supplied misc. terminals, plastic connector bodies, hardware, and bracket, that will be used (along with the salvaged parts that were removed from your original Dash harness, from the previous page) 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.

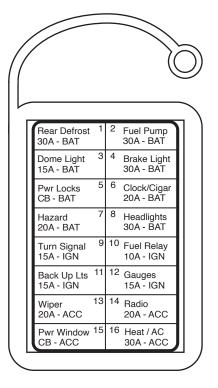


PLEASE READ THIS HELPFUL INSTALLATION TIP, BEFORE GOING ANY FURTHER!

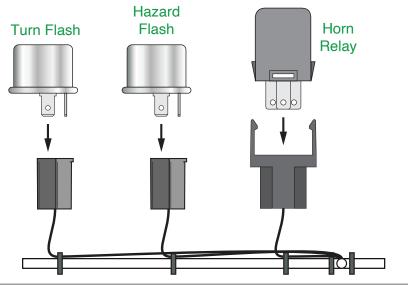
Prior to installing the Dash/Main harness in your dashboard, plug all of the fuses and circuit breakers (see detailed picture below), Horn Relay, Hazard Flasher and Turn Flasher (see detailed picture below), into this harness.



Fuse, circuit breaker installation orientation.



Fuse label shown on inside of fuse box cover; may be placed anywhere.



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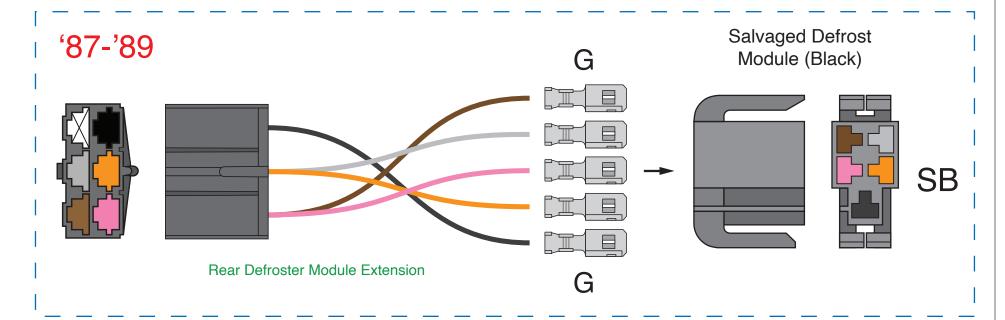
Page 5

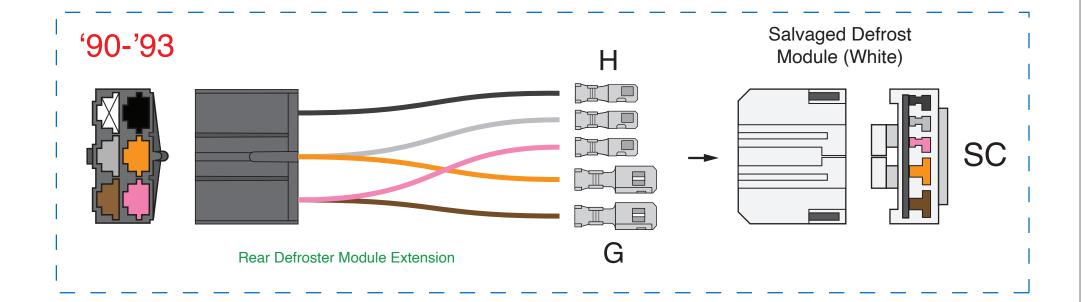
<u>Dash/Main Harness installation instructions:</u> Instrument Rheostat It is recommended that the connector terminations and harness installations, on the following pages, either brown wire can are performed in the order they are presented. be plugged into either of the center cavities The connectors on this page, should have their SG wires installed, on a bench or work area, prior to installing the harness, in the dashboard. Rear Defrost The indexing shown for each connector is from the face-view, not the wire-entry perspective. SF SA Wiper Motor 2 Wiper Motor 1 SD Blower A/C Mode Motor A/C Panel Fog Lamp Switch Illuminate Switch SJ SL SK SE either terminal can be plugged into either cavity 1987-89 Ford Mustang merican Classic Update Series 510547 92970659 Rev 4.0 06/26/2024 Page 6 www.americanautowire.com 856-933-0801

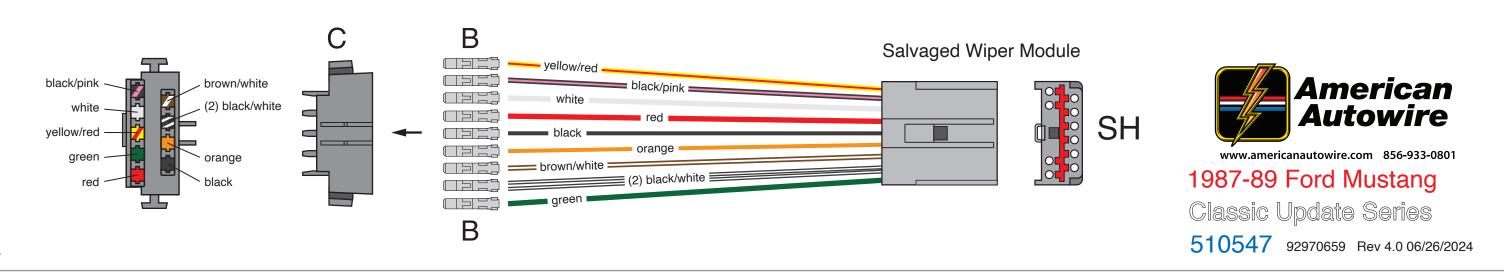
<u>Dash/Main Harness installation instructions:</u>

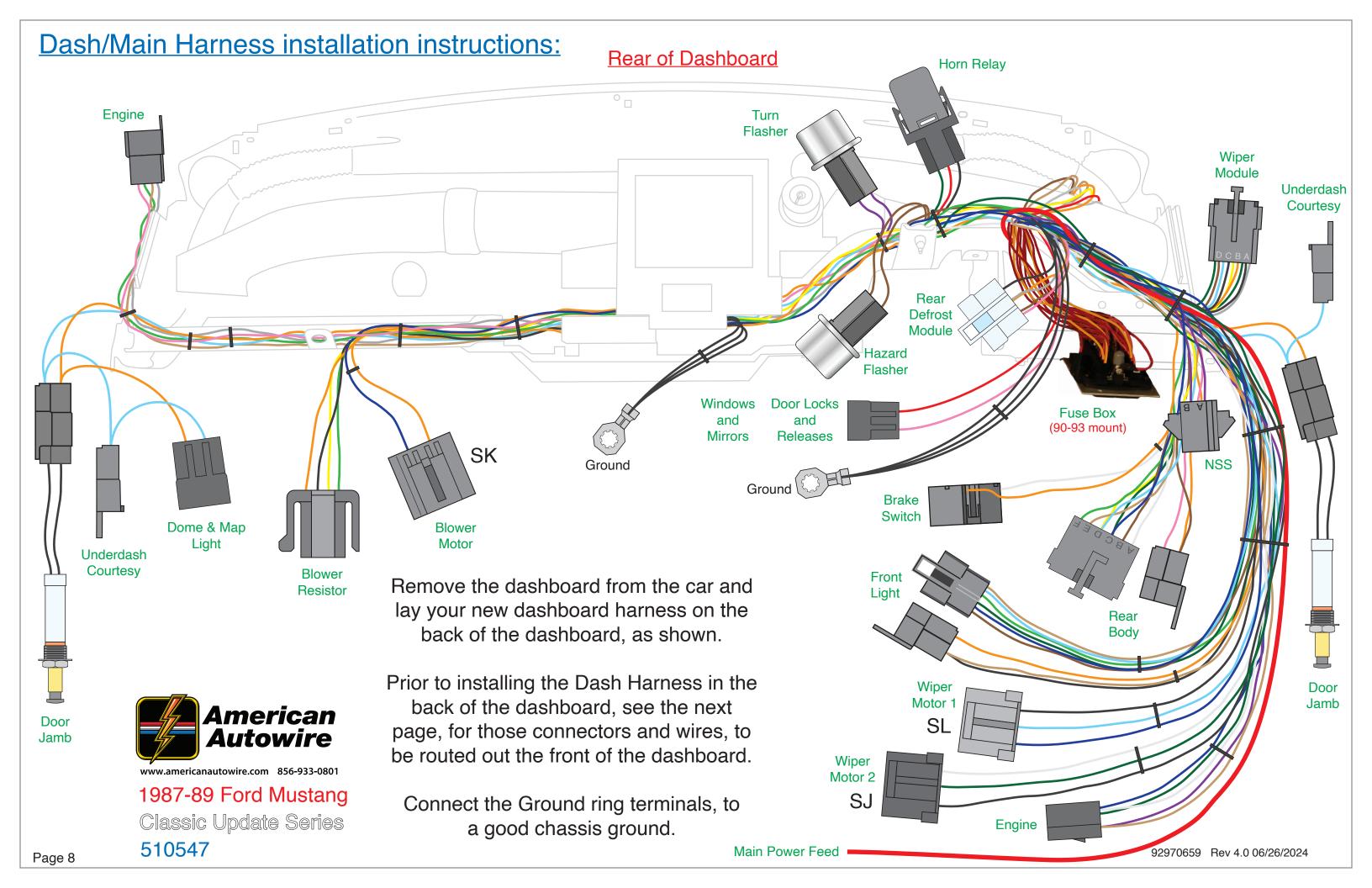
The terminals and connectors on this page, should be installed on a bench or work area, prior to installing the harness in the dashboard.

The indexing shown for each connector is from the face-view, not the wire-entry perspective.



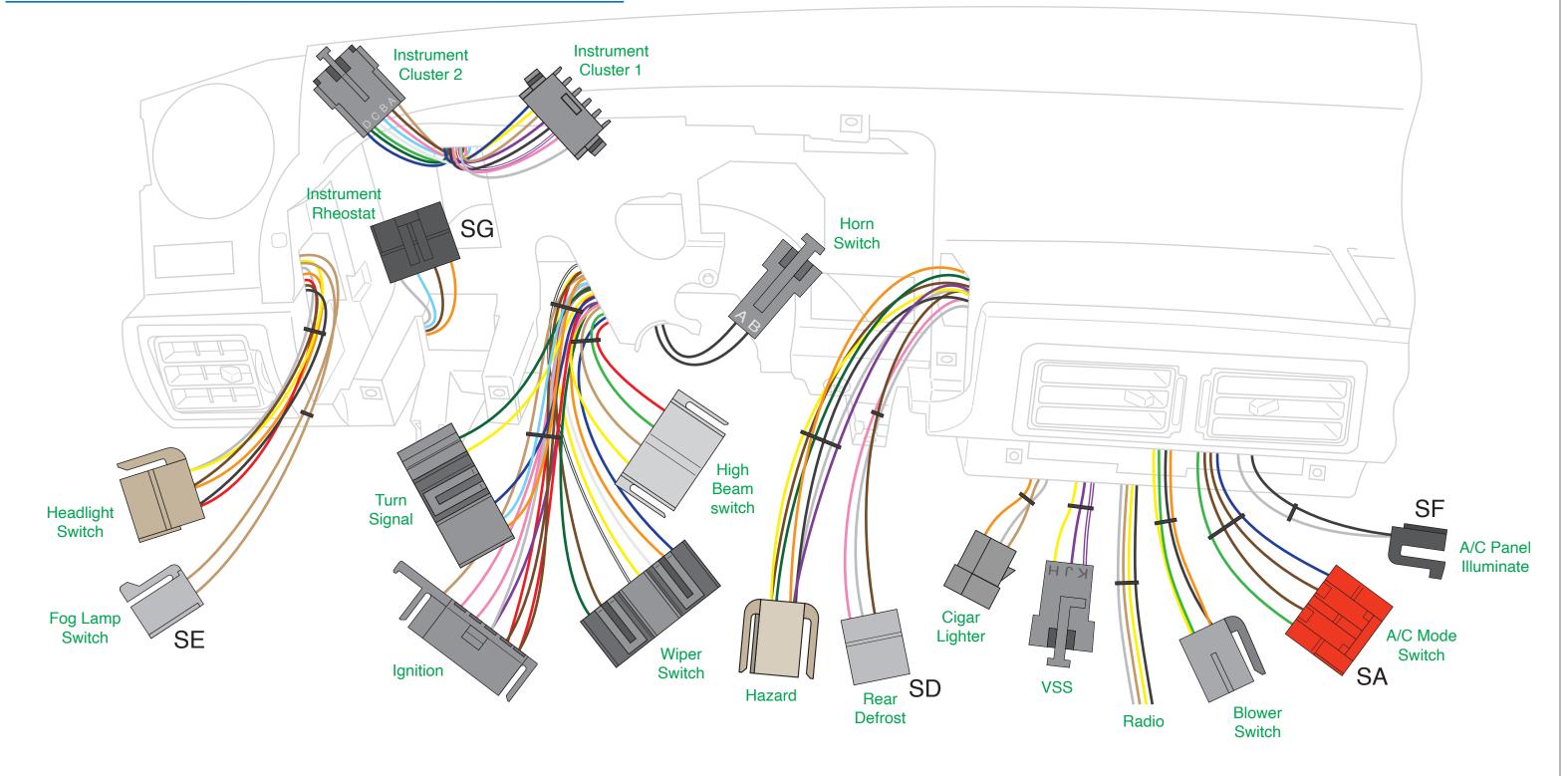






<u>Dash/Main Harness installation instructions:</u>

Front of Dashboard (instrument panel removed)





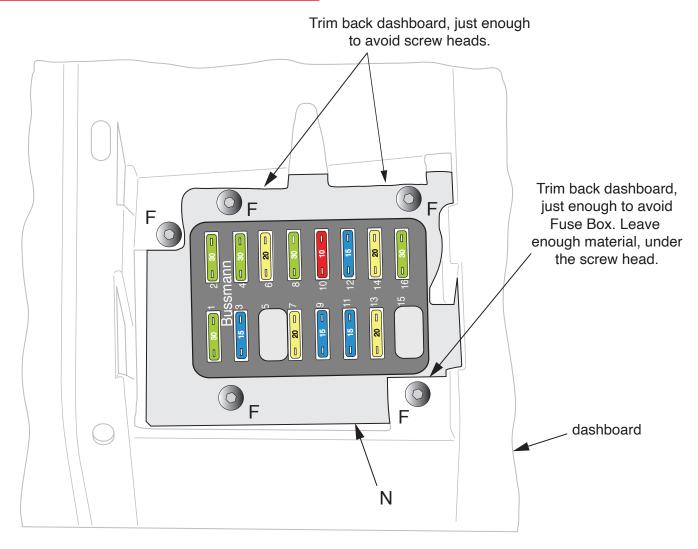
While installing the Dash Harness in the back of the dashboard, route these connectors and wires out the front of the dashboard, as shown.

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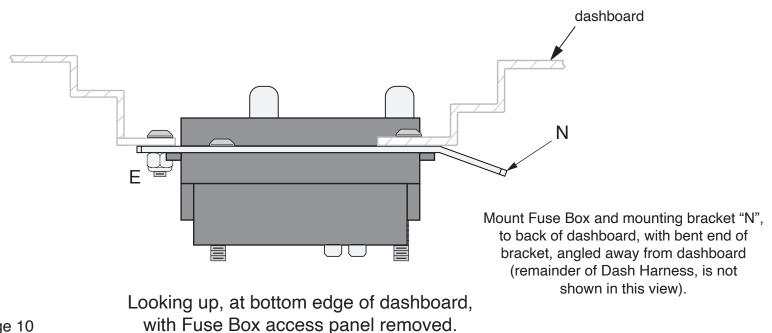
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<u>Dash/Main Harness installation instructions:</u>

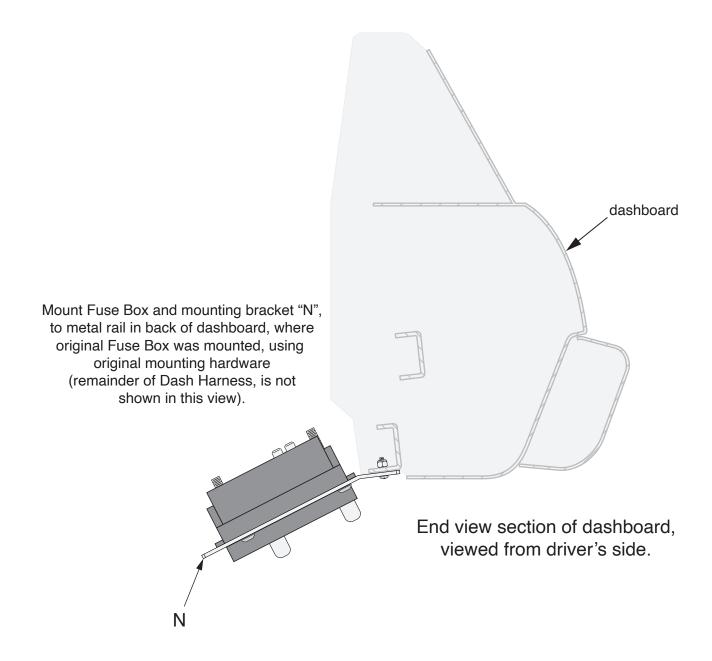
1987-89 Fuse Box installation:



Front of dashboard, with Fuse Box access panel removed.



1990-93 Fuse Box installation:

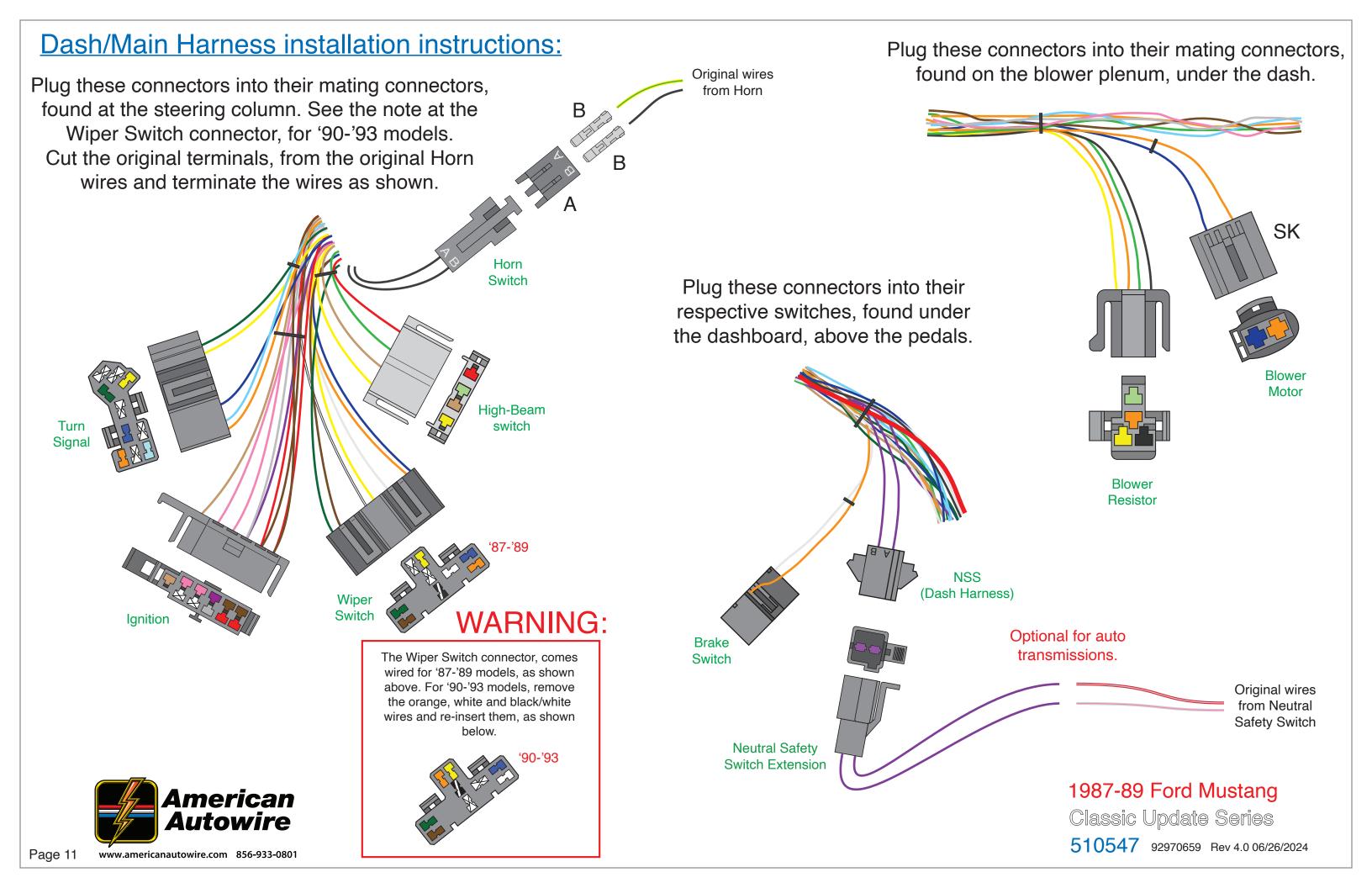


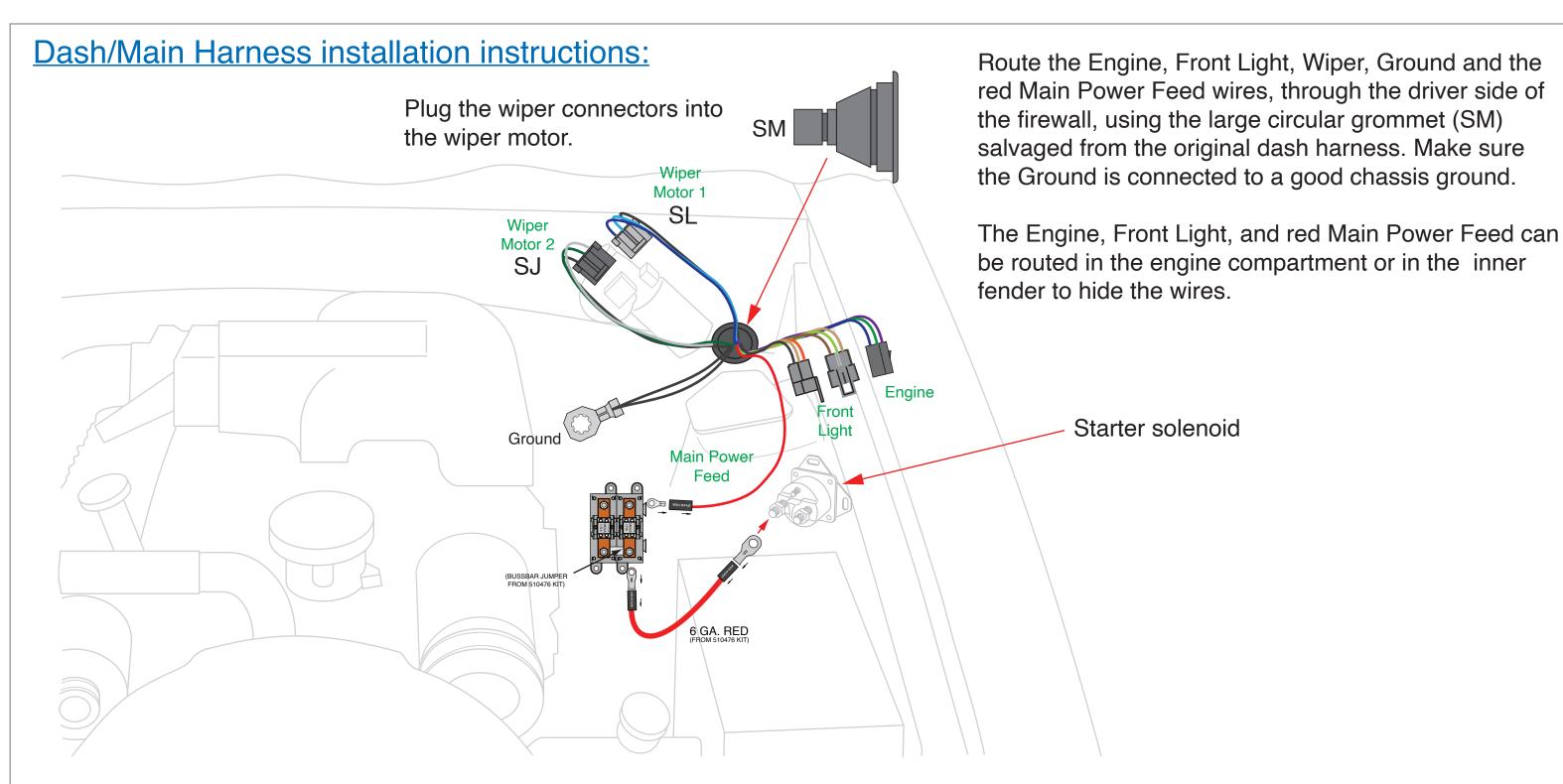


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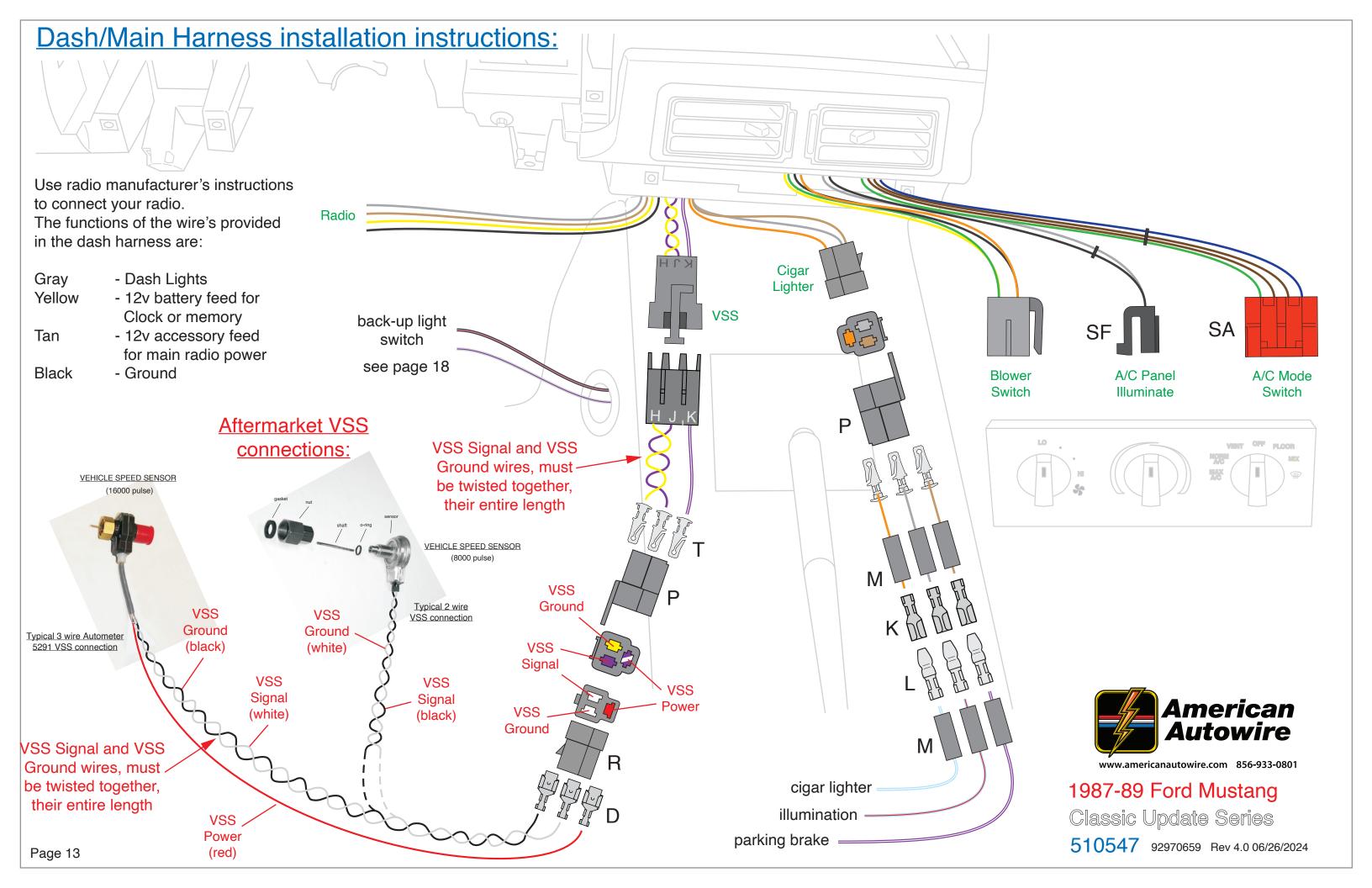


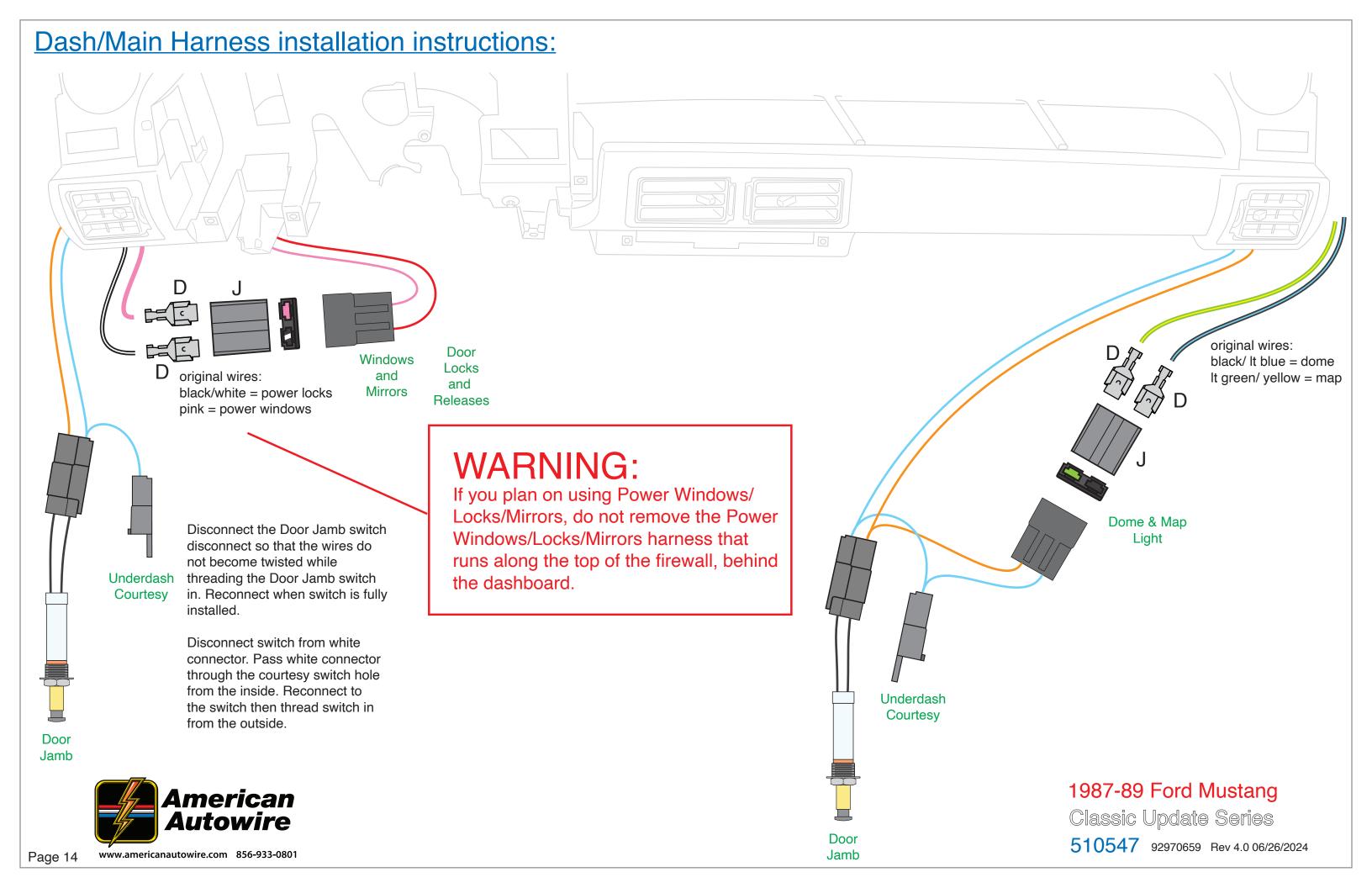
Mount the Mega Fuses (510476) included with this kit in a location close to the starter solenoid. Route red main power feed to the Mega Fuse. Cut to length and install ring terminal per the instructions included with the 510476 kit. Use a section of the 6ga wire to connect the Mega Fuse to the battery side of the starter solenoid, using the ring terminals supplied with the 510476 kit.



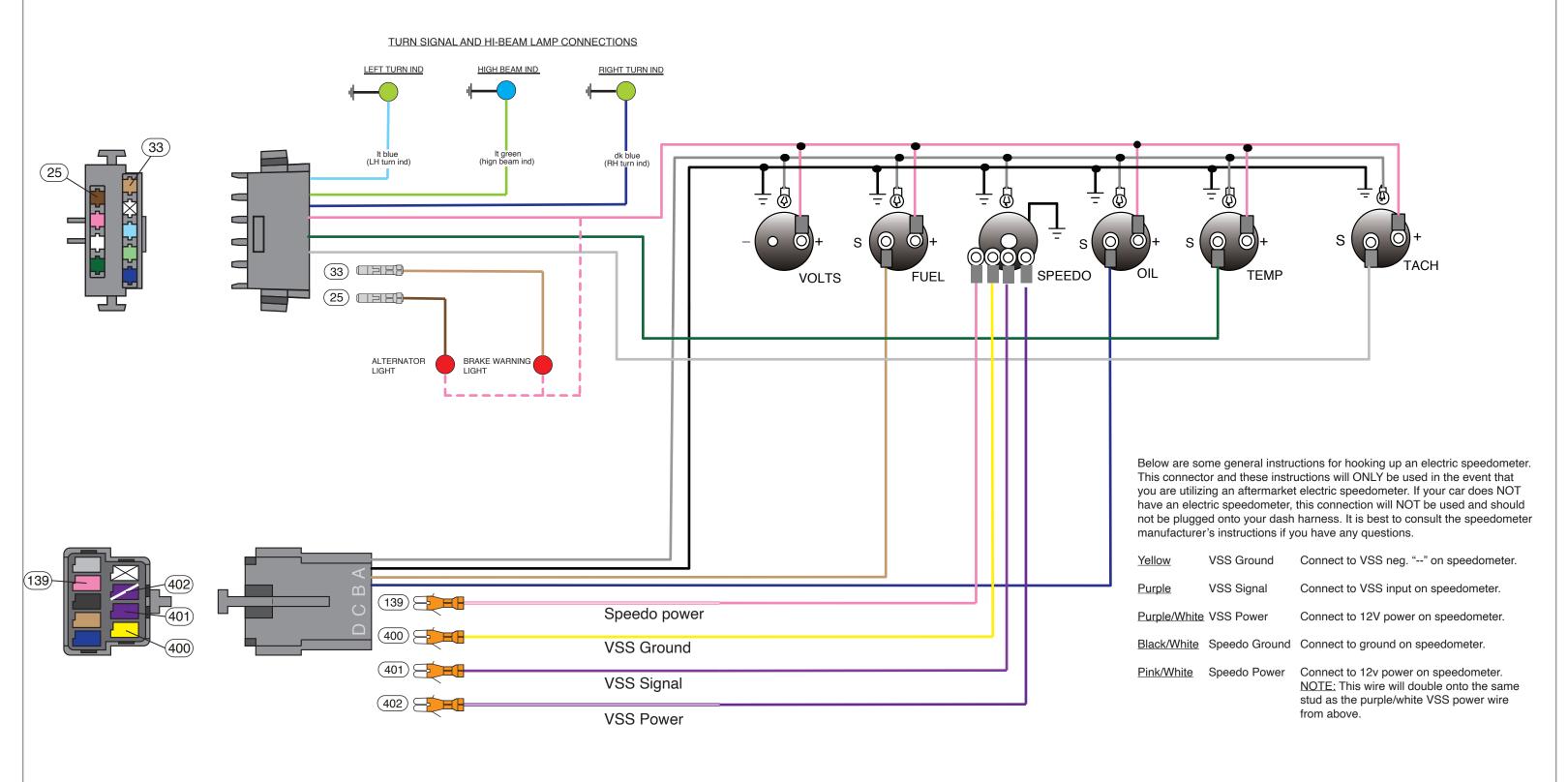
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Gauge Cluster Harness (aftermarket gauges) installation instructions:





See page 16.

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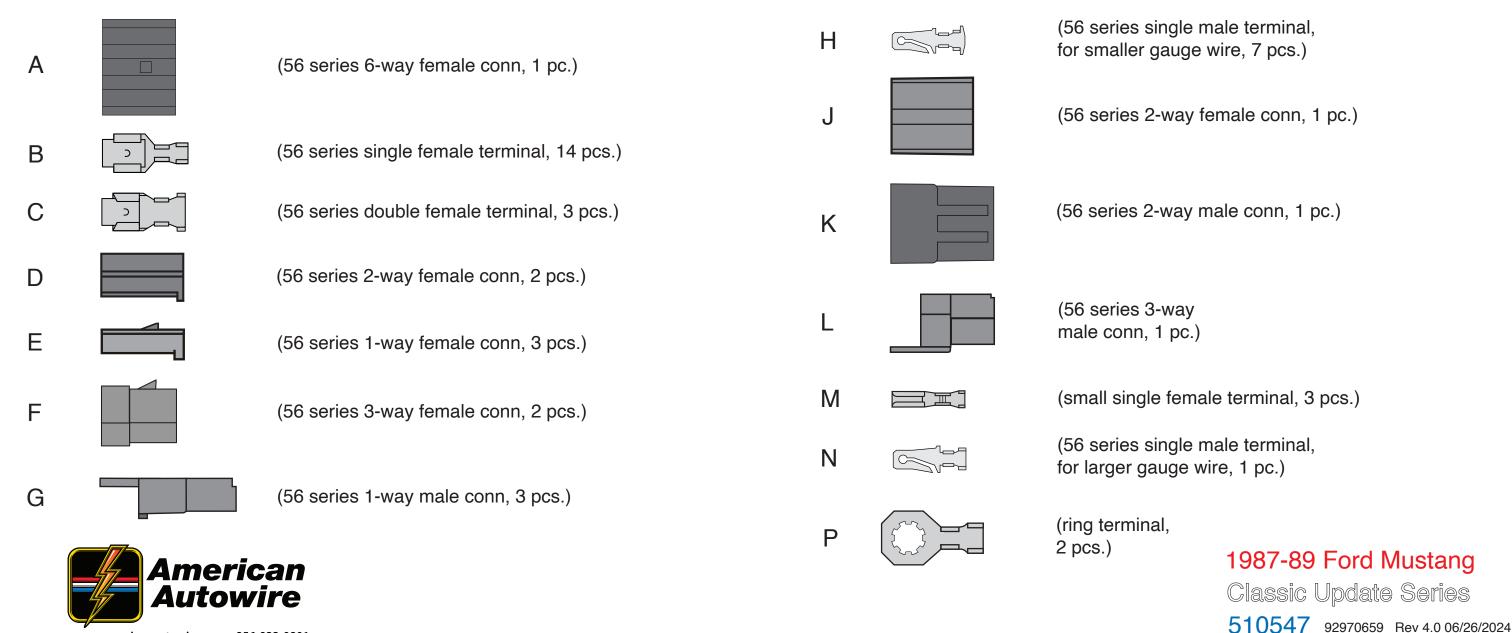
Gauge Cluster Harness (aftermarket gauges) installation instructions: Instrument Cluster 1 Instrument SG Cluster 2 Instrument Rheostat Rheostat SE See page 15. SD Fog Lamp Switch Headlight Hazard Rear Switch Defrost American Autowire www.americanautowire.com 856-933-0801 1987-89 Ford Mustang Classic Update Series 510547 92970659 Rev 4.0 06/26/2024 Page 16

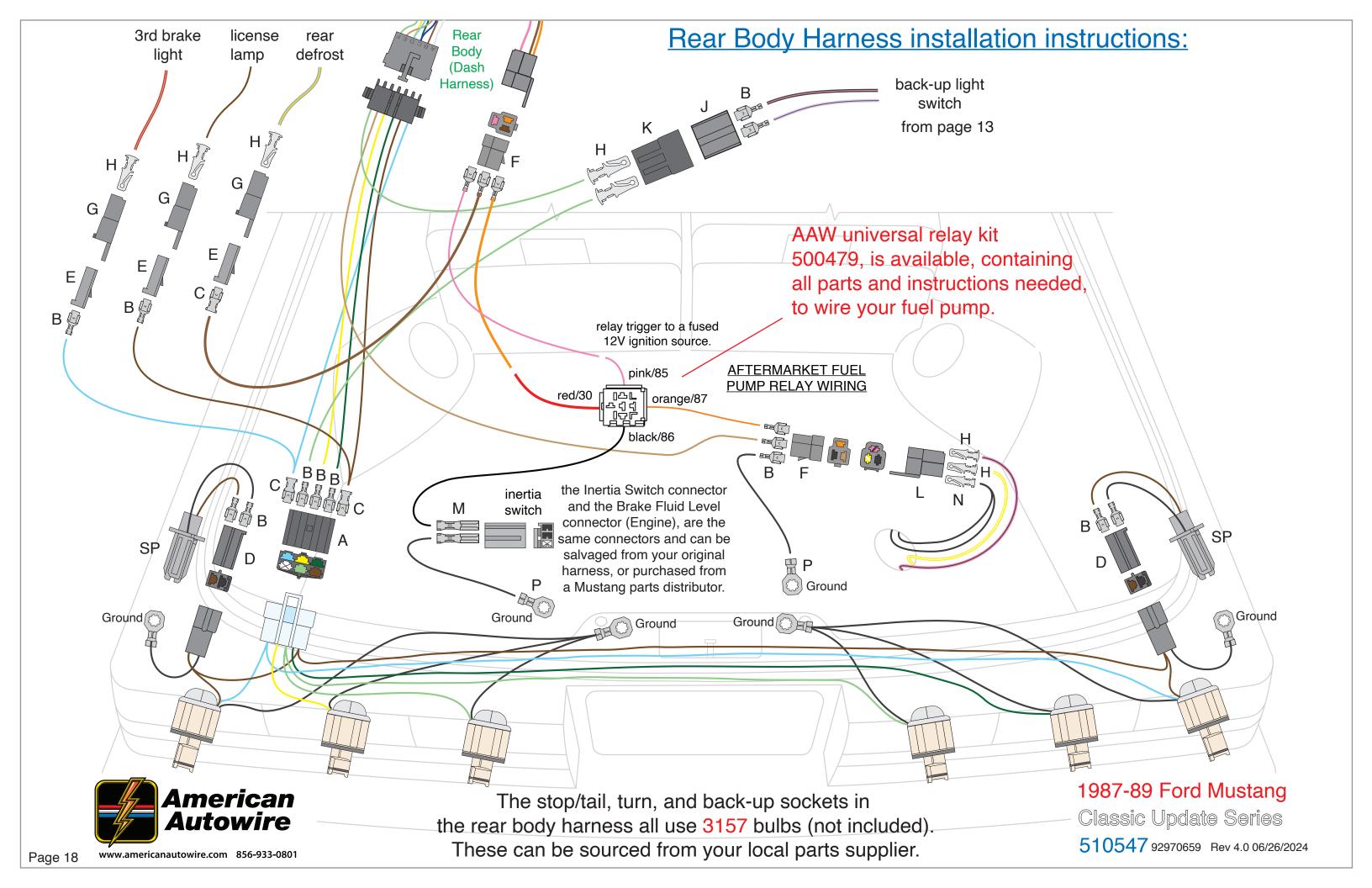
Rear Body Harness installation instructions:

Shown below, is the side marker lamp socket you will need to salvage/remove from both sides of your original Rear Body harness, that will be re-used (along with the supplied parts below) to complete your Rear Body harness connections. It is itemized and referred to on this page, just as it is on the following pages of this Rear Body instruction set.

Salvaged side marker lamp socket (2); cut 3" length of wire from original harness

Shown below, are the supplied misc. terminals and plastic connector bodies, 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.





Front Light Harness installation instructions:

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.

A (56 series 4-way female conn, 2 pcs.)

(56 series single female terminal, 9 pcs.)

C (56 series double female terminal, 5 pcs.)

(56 series 3-way female conn, 1 pc.)

E (56 series 1-way female conn, 2 pcs.)

F (ring terminal, 5 pcs.)

G (single male terminal, 2 pcs.)

H (sleeve, 4 pcs.)

(single female terminal, 2 pcs.)

K (washer pump conn, 1 pc.)

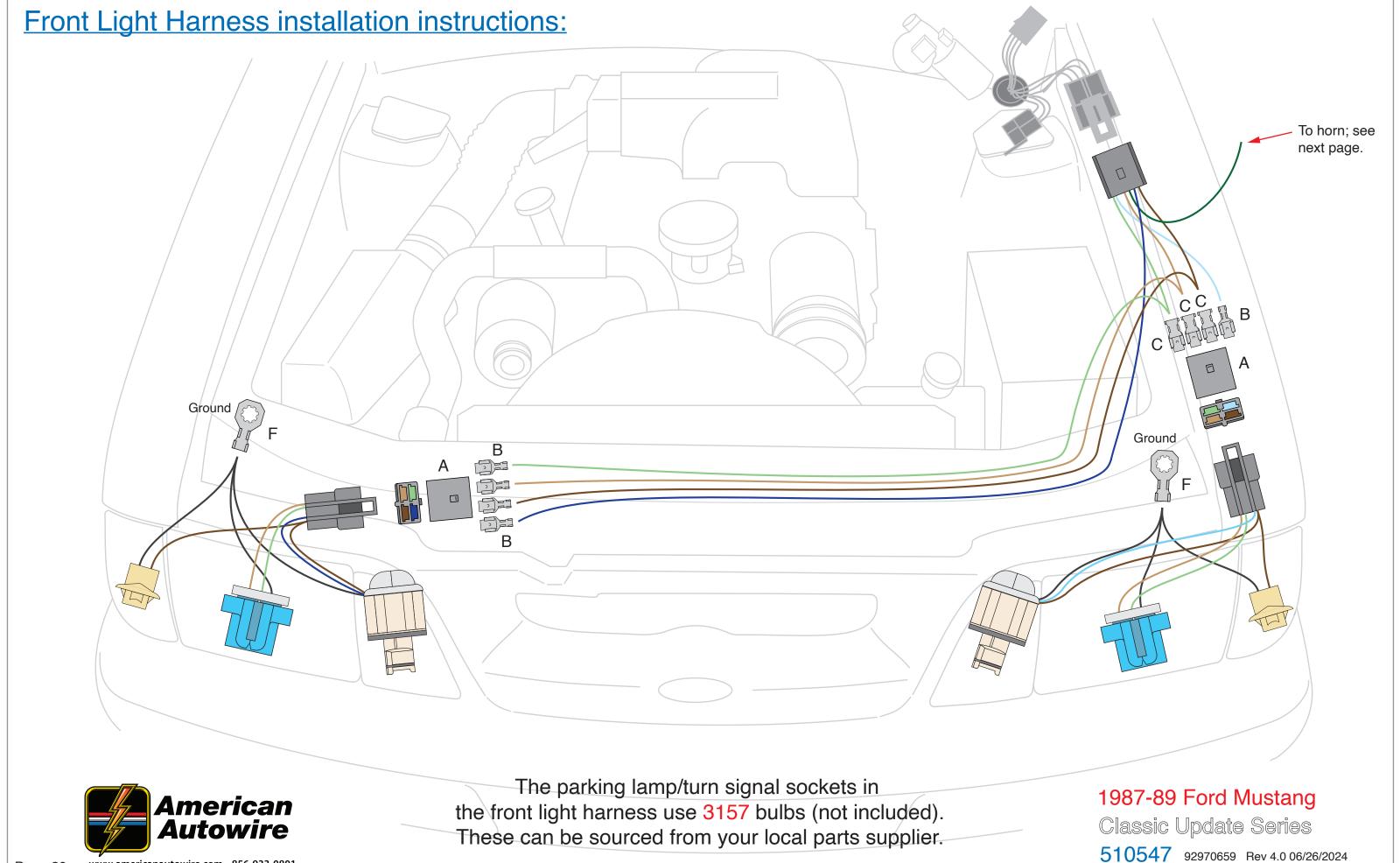
(56 series 2-way female connector, 2 pcs.)

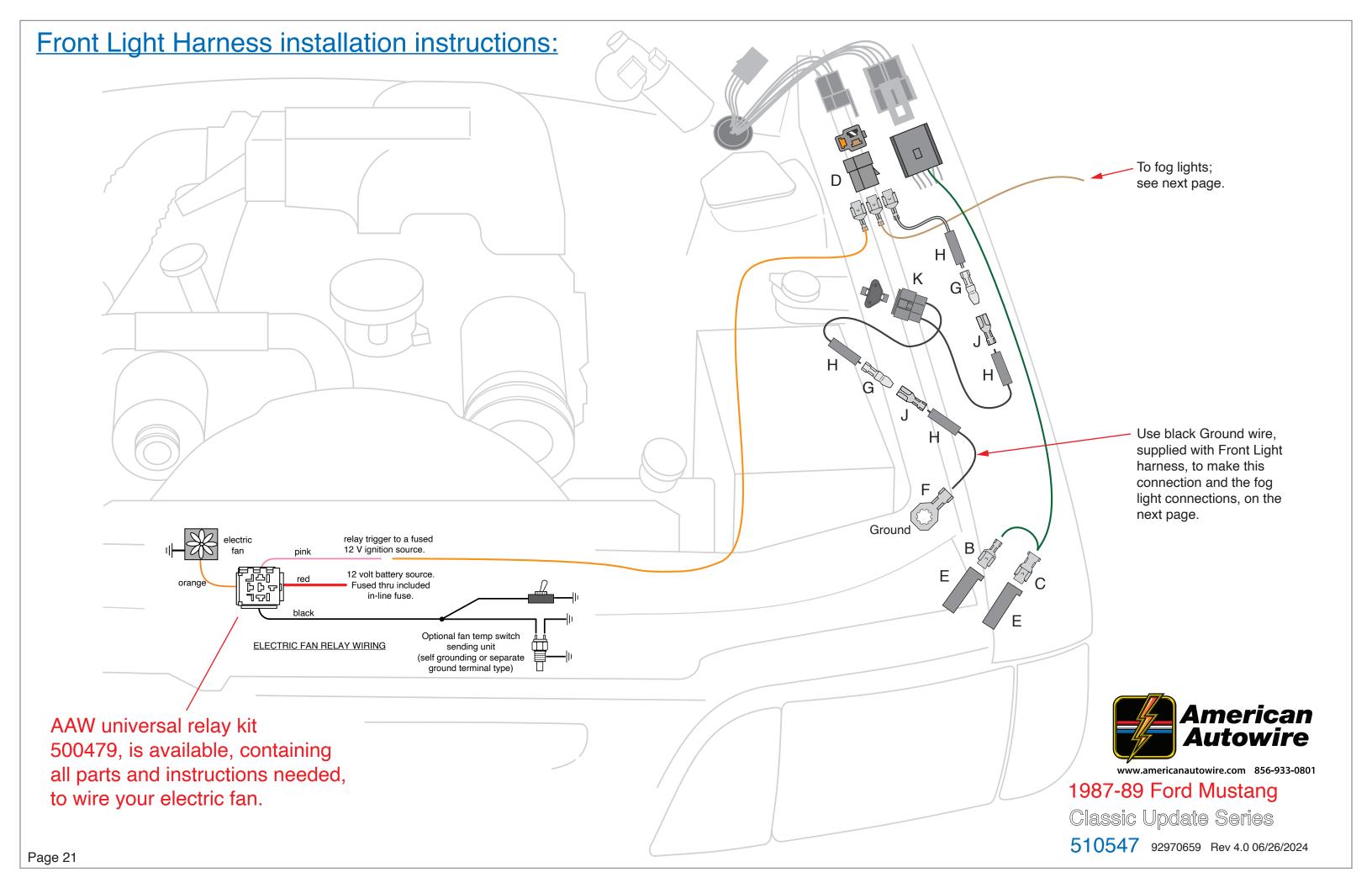
M (56 series 2-way male connector, 2 pcs.)

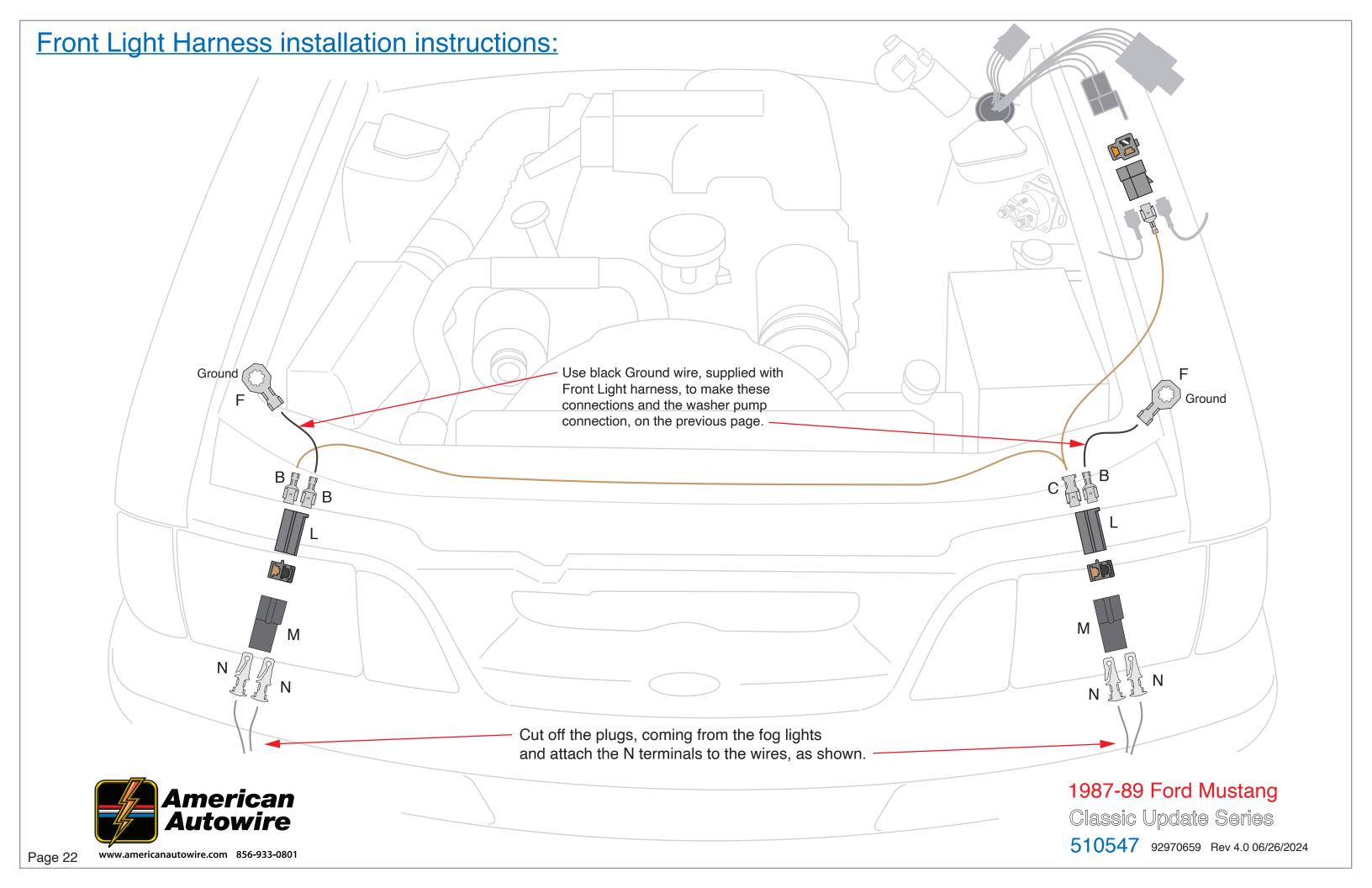
(56 series single male terminal, 4 pcs.)



D

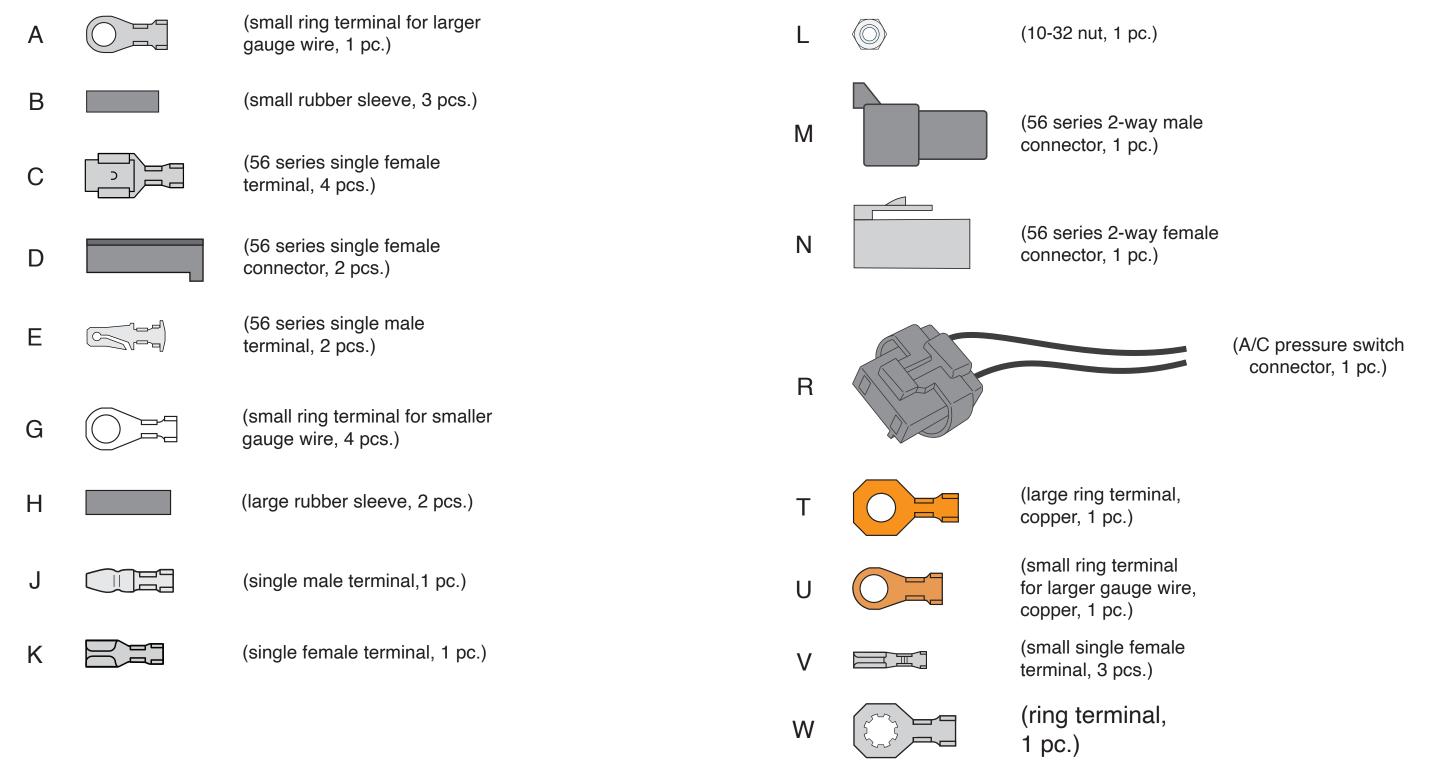






Engine Harness installation instructions:

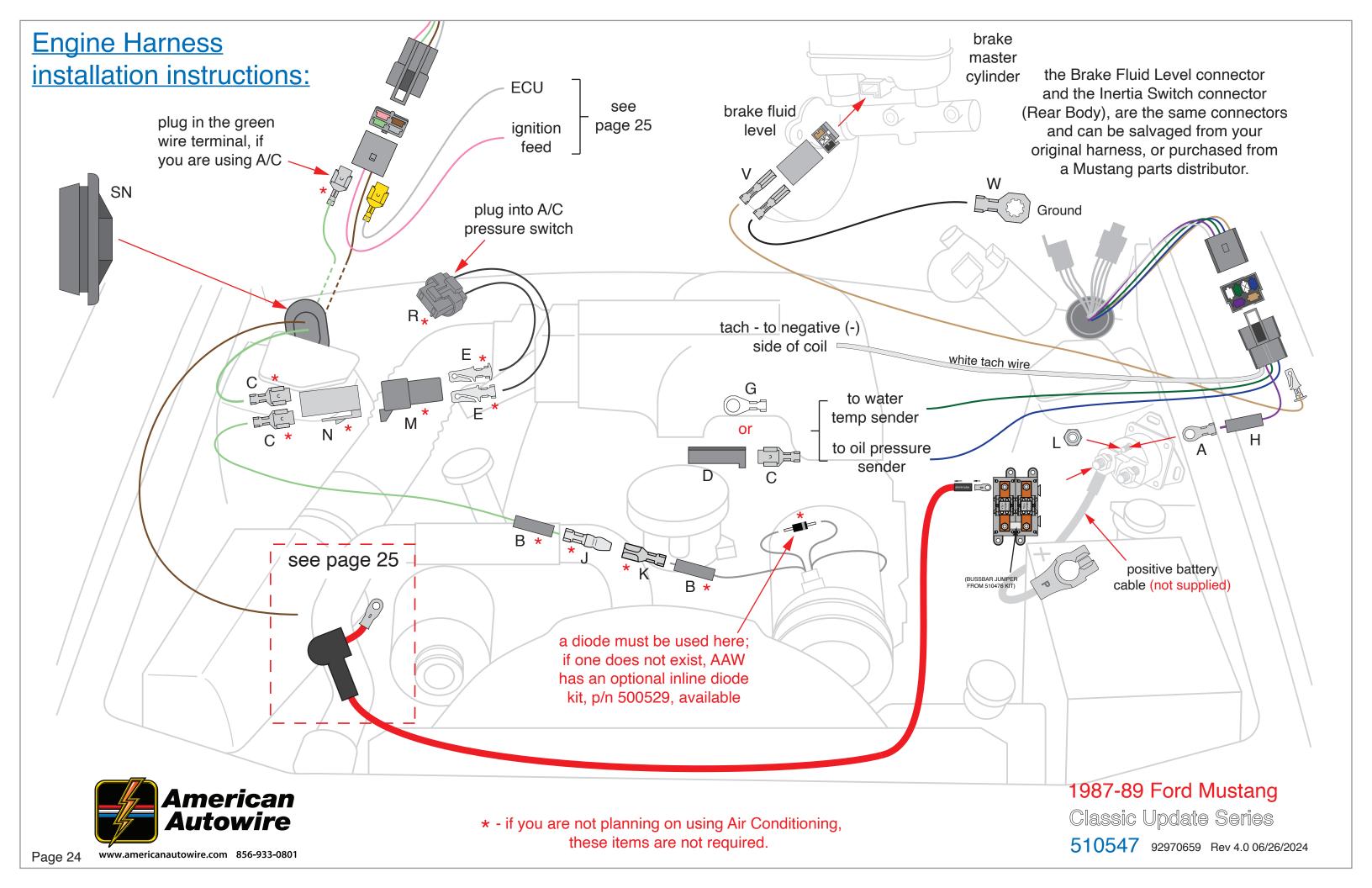
Shown below, are the supplied misc. terminals, sleeves and plastic connector bodies, that will be used to complete your Engine harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Engine instruction set.





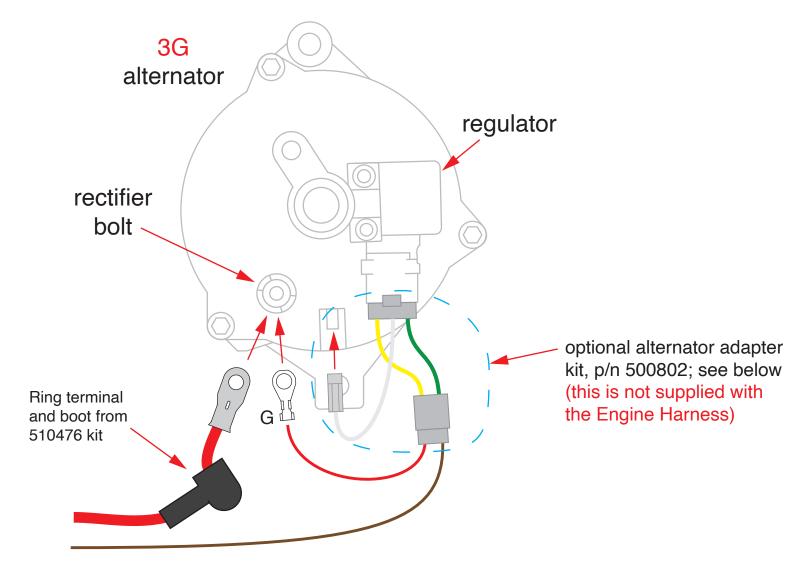
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Engine Harness installation instructions:

Alternator connections:



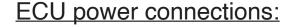
NOTE:

AAW recommends the use of Ford 3G or other alternators, over the use of Ford 2G alternators, due to known failures in 2G alternator wiring.



GM "SI" series to Ford "3G" internal regulated alternator





The following wires are supplied with this kit, for powering aftermarket ignition systems and fuel injection ECU's.

Pink - 12v in run and crank key positions - This wire is already installed

in the Engine Kit 51056

Grey - 12v in the run key position

- This wire is supplied loose and needs to be plugged into the location shown page 24, if required.

Purple - 12v in crank key position

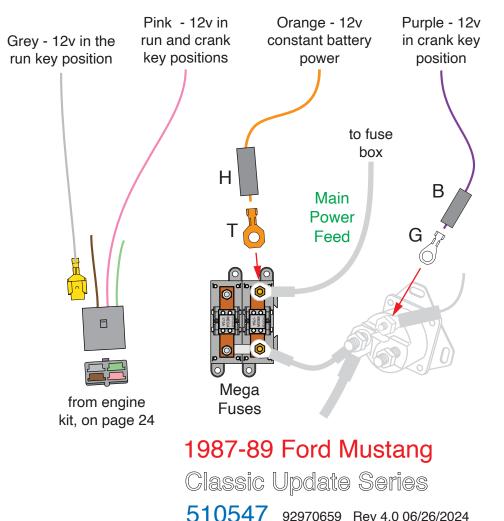
- This wire is supplied loose and can be connected to the S terminals of the starter solenoid and connected to your ECU required.

Orange - 12v constant battery power

- This wire is supplied loose and needs to be connected

Main Power Feed side of the Mega Fuse, if required.

Please refer to your ignition system or fuel injection manufacturer's instructions, for correctly connecting to the system that you are using.





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.

