



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.

This new updated American Autowire wiring system **WILL NOT SUPPORT** the factory Ford EEC computerized systems (carbureted or fuel injected), and should typically be used in a **MODIFIED** vehicle application only. This is not intended to be a stock replacement harnesss.

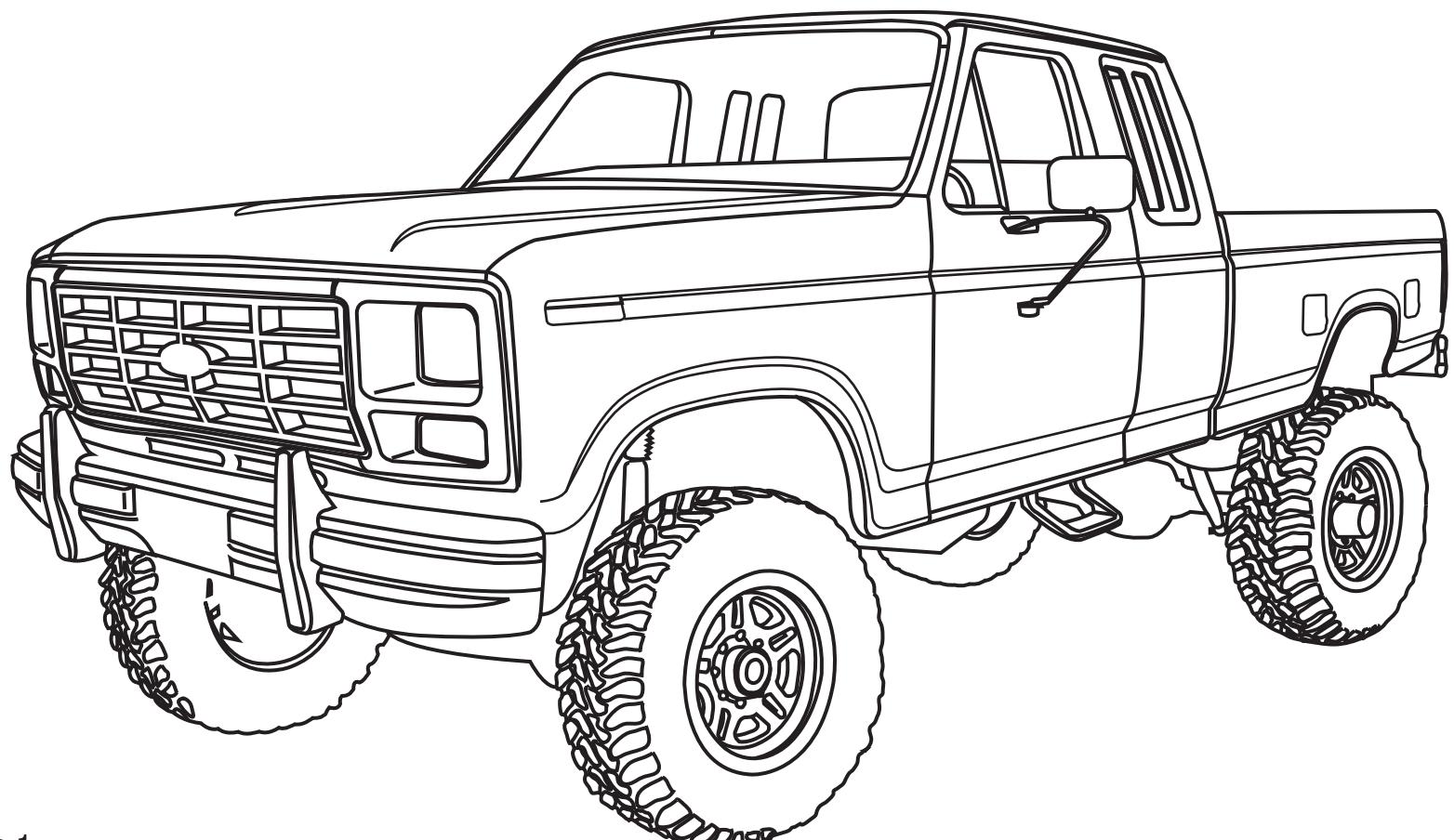
This kit is designed for gasoline powered trucks only and **DOES NOT** support any diesel applications.

This kit includes the wiring to support the use of a factory heater system and/or aftermarket heater and A/C systems. This kit **DOES NOT** include the wiring for the factory original **A/C** system. Optional, extra cost, **A/C Kits (510482 - 1980-83; 510483 - 1984-86)** are available that will allow you to use your original factory A/C components.

This kit only supports the use of a higher current, self-exciting 1-wire alternator or an internally regulated alternator. The factory alternator is **NOT SUPPORTED**. Optional adapters may be necessary for certain applications. AAW offers a Ford Gen III adapter, P/N 500802, at extra cost.

AAW **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 6 gauge charge wire from the alternator output charge terminal to the starter relay battery terminal. Due to the path of the charge being altered from the stock configuration, the gauge can no longer see a charge vs. discharge. **This wiring system has been designed to work with a voltmeter.**

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. It will work with the factory Ford Duraspark ignition systems with the purchase of separate Duraspark harness and ballast resistor. This kit is also compatible with HEI and other aftermarket ignition systems as well as aftermarket fuel injection systems. See **pages 24 and 25** for the various Ignition System Wiring configurations.



510724 - Classic Update Series Kit

1980-86 Ford F-Series and Bronco

This kit contains the following components:

| Part | Bag | Number | Description | Quantity |
|------|-----|----------|---|----------|
| | | 500042 | Floor Dimmer Switch | 1 |
| | | 510264 | Headlight Switch | 1 |
| | | 510346 | Wiper Switch | 1 |
| | | 510697 | Fuse, Relay, and Flasher kit | 1 |
| | | 500919 | Practice Terminal Crimping Set | 1 |
| | G | 510725 | Dash Harness kit | 1 |
| | H | 510726 | Instrument Cluster wiring kit | 1 |
| | J | 510727 | LH Engine Wiring Kit | 1 |
| | L | 510728 | RH Engine Wiring Kit | 1 |
| | M | 510729 | Rear Body Wiring kit | 1 |
| | Z | 510476 | Alt. & Main Power Connection Kit | 1 |
| | | 520002 | Digital Gauge System Dim Wire - Ford Kits | 1 |
| | | 92972233 | Firewall Template | 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.

**510724 1980-86 Ford
F-Series and Bronco
Classic Update Series**



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510724

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

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



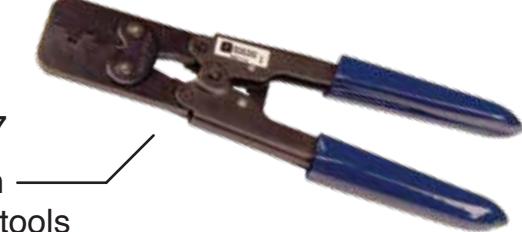
p/n 510482
80-83 Optional A/C
Overlay Harness



p/n 510483
84-86 Optional A/C
Overlay Harness



p/n 510587
Includes Both
terminal crimping tools



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

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

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

We carry many accessories for your 1980-86 Ford truck or Bronco:



p/n 510484
80-86 Optional Dual
Fuel Tank Harness



p/n 510485
81-86 Optional Bronco
Rear Defroster Harness



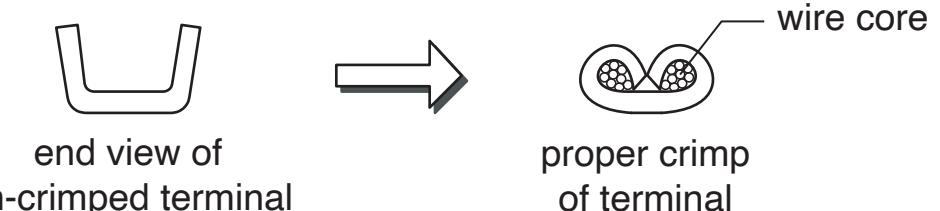
p/n 510486
80-86 Optional Bronco
Rear Tailgate PW Harness



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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.



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F-Series and Bronco
Classic Update Series**

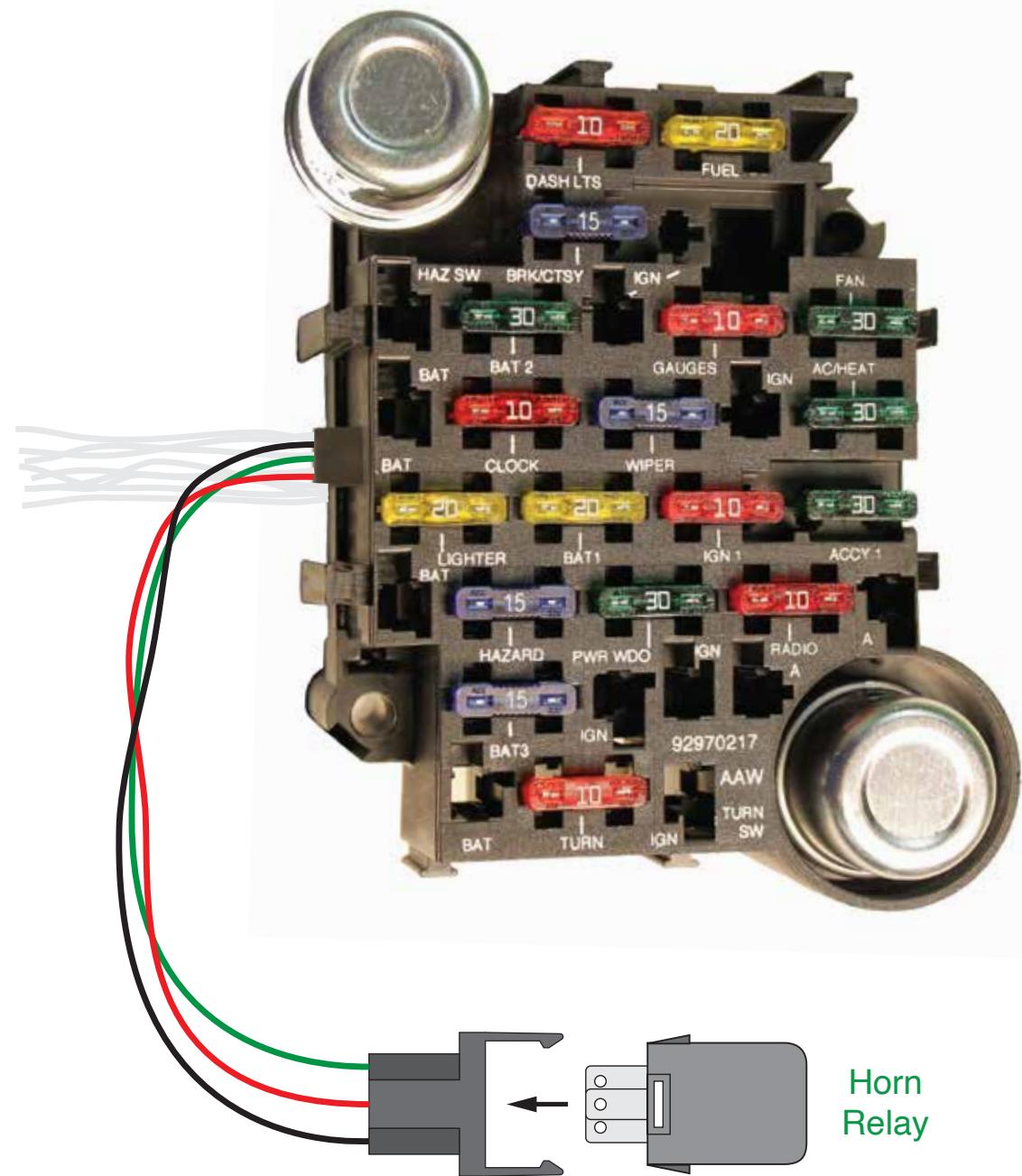
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STEP 1: DISCONNECT YOUR BATTERY

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

STEP 2: LOAD THE FUSE BLOCK

Prior to installing the Dash harness to the dash, obtain the Fuse, Flasher, and Relay Kit **510697** and plug all of the fuses and the flashers to the Fuse Block (see below). Plug the Horn Relay to the Dash harness (see below).



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Fuse usage details. **NOTE:** Park, Tail and Head lights are protected by the H/L switch internal breaker

| Fuse # | Fuse Block Printing | Fuse Rating | System Wiring Protected |
|--------|---------------------|-------------|--|
| 1 | DASH LTS | 10A | Cluster lights, headlight / wiper switch light, heater control light, ashtray light, optional dash lights plugged into candelabra, PRNDL indicator light, Bronco rear defroster module illumination light. |
| 2 | FUEL | 20A | Electric fuel pump, electric speedo feed, dual tank solenoid (Accy 6-way conn). |
| 3 | BRK/CTSY | 15A | Stop and third brake lights, courtesy lights, dome and map light, glove box lamp, Bronco rear cargo / courtesy lamp. |
| 4 | BAT 2 | 30A | Power seats, bat. feed Bronco rear window defroster module (Accy 6-way conn). |
| 5 | GAUGES | 10A | Oil pressure warning light, brake warning light, backup lights, 4x4 indicator light, optional tachometer, aftermarket gauge power. |
| 6 | FAN | 30A | Electric fan. |
| 7 | CLOCK | 10A | Battery feed for digital clock, radio battery feed. |
| 8 | WIPER | 15A | Wiper motor, washer pump feed |
| 9 | AC/HEAT | 30A | Air conditioning/heater feed. |
| 10 | LIGHTER | 20A | Lighter, battery feed in rear body, underhood lamp feed |
| 11 | BAT 1 | 20A | Power locks (Accy 6-way conn). |
| 12 | IGN 1 | 10A | Electric choke. |
| 13 | ACCY 1 | 30A | Opt. accessory feed, Bronco rear defroster module relay coil (Accy 6-way conn). |
| 14 | HAZARD | 15A | Hazard lights. |
| 15 | PWR WDO | 30A | Power windows, Bronco tailgate power window feed (Accy 6-way conn). |
| 16 | RADIO | 10A | "On-off" feed for radio and digital clock. |
| 17 | BAT 3 | 15A | Opt. battery feed. (Accy 6-way conn). |
| 18 | TURN | 10A | Turn signals. |

STEP 3: PREPARING TO INSTALL THE DASH HARNESS

Remove the dash frame assembly from the vehicle. Strip the original dash/main harness off of the dash frame (see photos 1 and 2 on page 6).

STEP 4: RECLAIMING YOUR ORIGINAL FIREWALL GROMMETS

We recommend that you re-use the factory firewall grommets from your original harness. See pages 19 or 22 for specific details on splitting and removing your original grommets. In the event that your originals are not serviceable, we have provided new replacements.

STEP 5: DRILL THE FUSE BLOCK MOUNTING HOLES

Obtain the Fuse Block Mounting Instructions **92972233** and drill a new 1/8" hole in the firewall per those instructions. This will prepare the firewall so that it's ready to accept the new dash harness and fuse block assembly.

STEP 6: INSTALL THE CLIPS AND J-CLAMPS

(See page 5) Obtain 9 of the 1" routing clips "L", one of the J-Clamps "J" with one each of the screws, washers and nuts "K, G and H" (2 extra J-Clamps have been provided in case your dash conduit over top of the heater control is missing), and two of the edgebiter clips "R" and install them all onto the dash frame shown on page 7 of this instruction set.

STEP 7: START INSTALLING THE 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 on page 4:

Table of Contents:

Bags: Pages: Sections:

G 5-12 **Dash Harness (510725) (Part 1 Installation)** – This is the main harness in the kit and it should **first be installed to the dash frame assembly**.

Install the main trunk of the Dash Harness into the frame as shown in the pics. The Dash Harness contains:

Instrument Cluster Harness connections
Headlight Switch connection
LH and RH Courtesy Light connections
Cigar Lighter connections
Heater Switch connection
Wiper Switch connection
Horn Relay connection

Digital Clock connection
In-Line Heater connections
Ground connections
Ash Tray Light connection
Glove Compartment Light connections
Heater/AC and Optional Rear Defroster Light connections
Optional Accessory Power Feed connection (see page 10 details)

Tachometer Ground connection
4 x 4 Indicator Light connection
Radio wires
Headlight and Wiper Light connection
Electric Speedometer Ground connection
Dash Light Candelabra (optional lamp use)
In-Line Fuel Gauge connections

Dash Harness (Part 2 Installation) – After installing the Dash Harness to the dash frame assembly, now install the entire assembly back into the vehicle. Attach the Fuse Block Assembly to the firewall as outlined in Step 5, on page 3 of this instruction set. The Dash Harness now connects to the following components:

Ignition Switch connection
Stop Light Switch connection
Rear Body Harness connection (exterior)
Wiper Switch Extension connection
Dimmer Switch connection
AC Overlay Feed connections (optional use)

Turn Signal Switch connection
Clutch Interlock/ NSS connection
Rear Body Harness connection (dome light and interior)
Park Brake Switch connection
Heater Resistor / Blower Motor Extension connection
Engine, Ignition, Starter Relay Extension connections

Back Up Light Switch Extension connection
LH & RH Door Jamb Switches
LH Fender Apron Extension connections
LH and RH Forward Lighting Extension connections
Vehicle Speed Sensor Extension connection
Main Power Feed connection

H 13-16 **Instrument Cluster Harness (510726)** – This harness is assembled by the customer and connects to:

1980-86 w/Temp and Fuel Gauges

Printed Circuit Board (PCB)
Dash Harness connections

1980-86 w/Temp, Oil and Fuel Gauge (Ammeter not supported; with or w/o optional tach)

Printed Circuit Board (PCB)
Dash Harness connections

17 Aftermarket Gauges

All gauges

J 18-20 **LH Engine Harness (510727)** – This harness connects to the dash harness and:

LH Headlight
LH Parking/Turn Lamp
LH Side Marker

Wiper Motor
Washer Pump/Reservoir
Horns

Brake Warning Switch
Electric Fan (requires an optional Relay Kit)
Back Up Lead Extension Wires

L 21-25 **RH Engine Harness (501728)** – This Harness connects to the dash harness and:

RH Headlight
RH Parking/Turn Lamp
RH Side Marker

Ignition System
Starter Relay
Main Power Feed, Alternator Exciter Feed

Electric Choke, Tach, Oil Pressure and Water Temperature Senders
Heater Resistor and Blower Motor



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M 26-33 **Rear Body Harness (510729)** – Interior and exterior connections. This harness connects to:

Dash Harness
Tail Light Extensions (Stop Tail and Back Up)
Under hood Lamp Feed

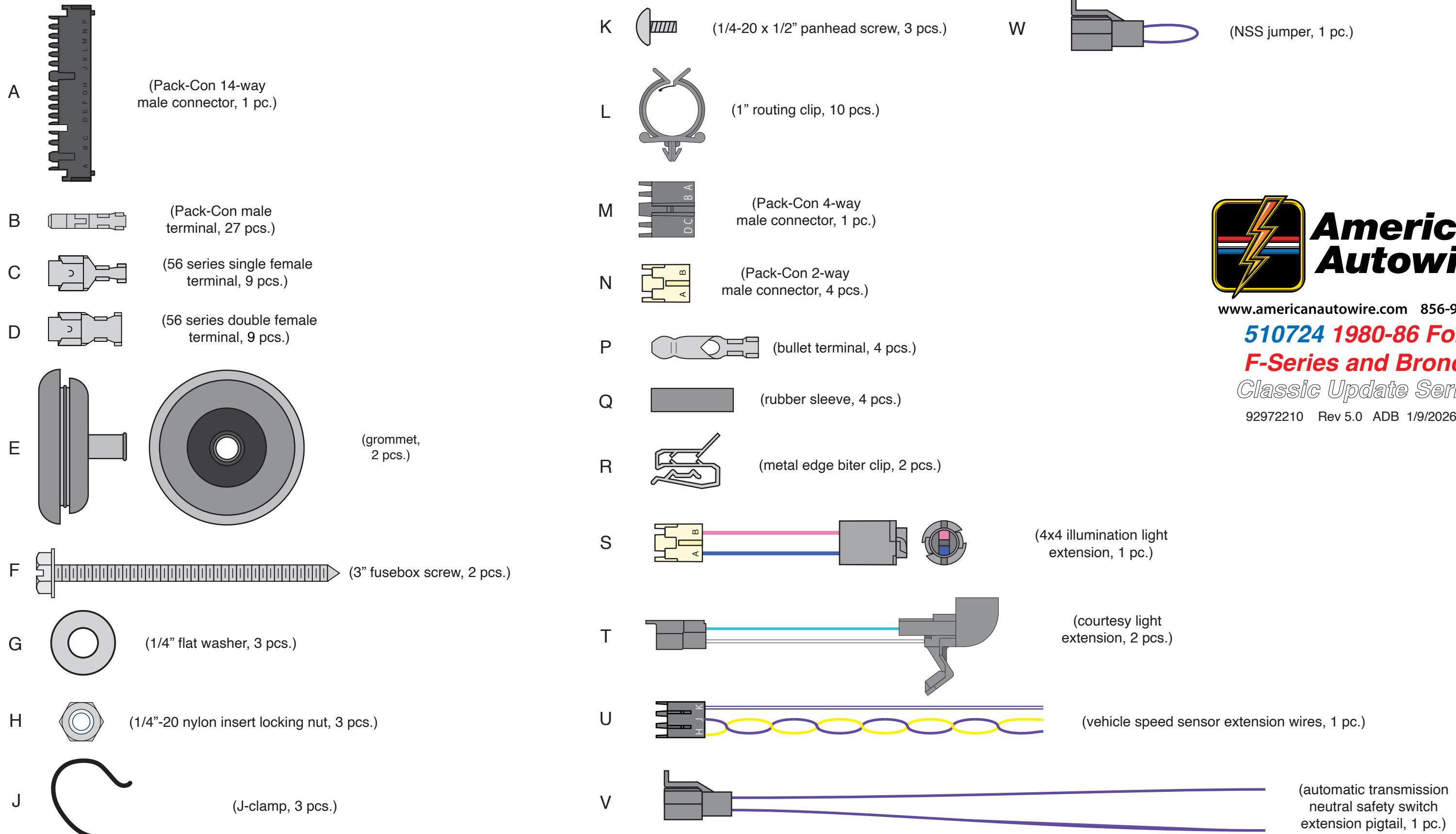
Fuel Tank Lead and Sender Extensions
License Lamp connections
4 x 4 Transfer Case Extension Lead

Dome Light, Dome/Map Light
Third Brake Light
Bronco Rear Courtesy/Cargo Lamp

**510724 1980-86 Ford
F-Series and Bronco
Classic Update Series**

Dash/Main harness installation instructions:

Below are the supplied misc. terminals, connectors and assorted components included in the Dash/Main Harness and Loose Piece bag (92972215). These will be used to complete your Dash/Main harness connections and are referred by the letters and descriptions below from this point forward.



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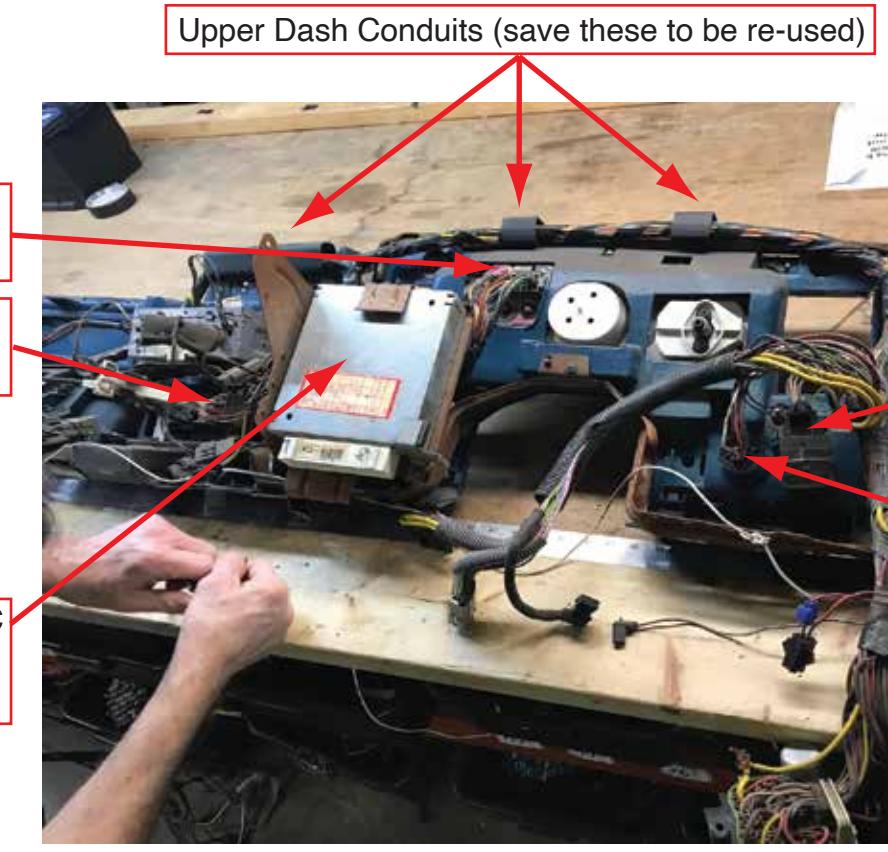
**510724 1980-86 Ford
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Dash/Main harness installation instructions:

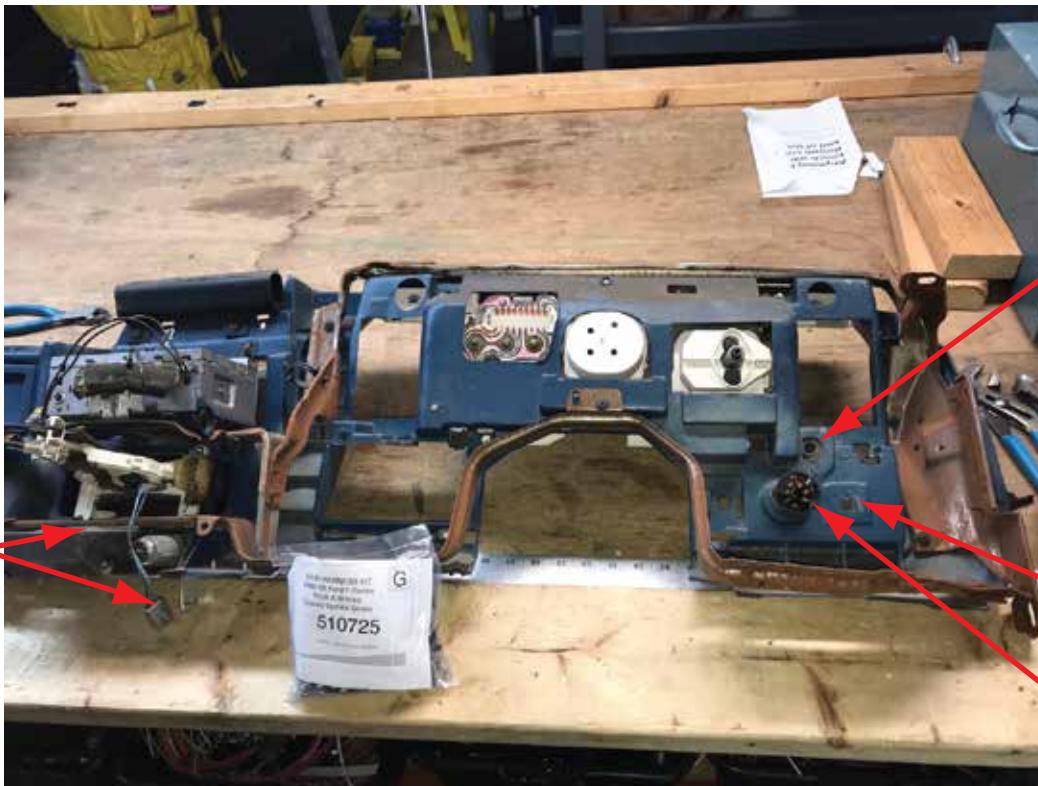


Complete dash assembly removed from the vehicle



1. Disconnect all the under hood wiring from the senders, lamp assemblies, etc. Unseat the grommets from the firewall of the truck, and push them back inside along with all the wiring. With the help of another person, remove the entire dash assembly from the truck.

2. Place the dash assembly on a clean workbench, face-down. Begin disconnecting all the switch, cluster, lamp and accessory connectors. Remove the EEC as it will no longer be used with this kit (you will need to update your ignition/distributor system)



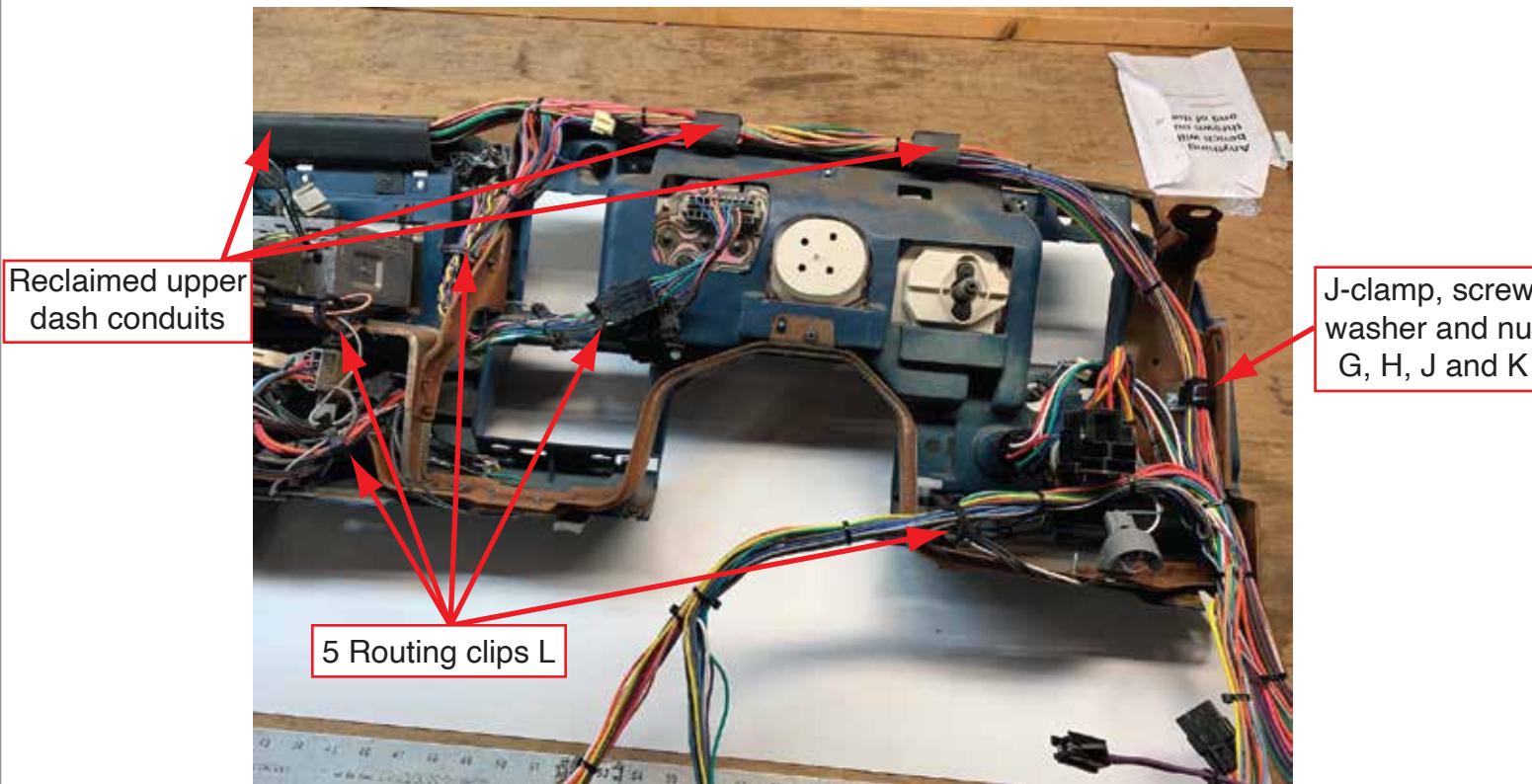
3. View of the driver side dash frame assembly with the original main/dash harness removed. Several dash illumination lamp assemblies will need to be saved and reused (see page 12 for details). Build the dash illumination lamps and install as shown above. The dash harness will plug into these extensions later. Install the new H/L and Wiper switches into the dash frame.



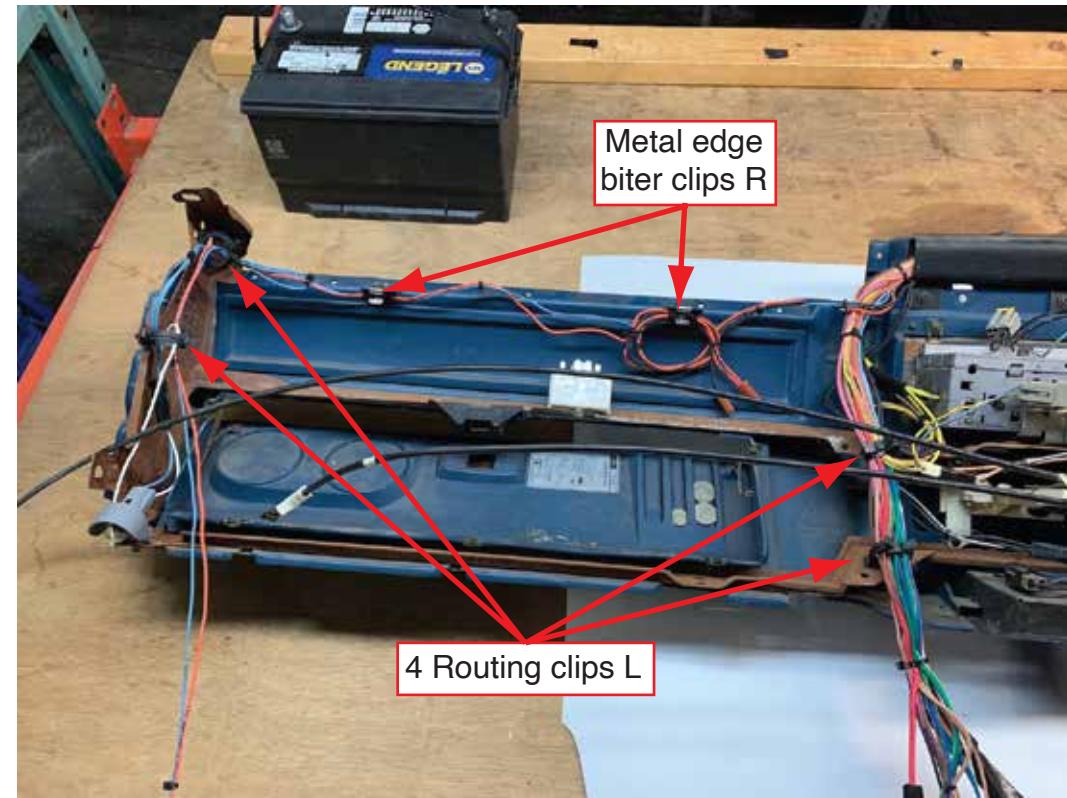
4. View of the passenger side dash frame assembly with the main/dash harness removed.

Dash/Main harness installation instructions:

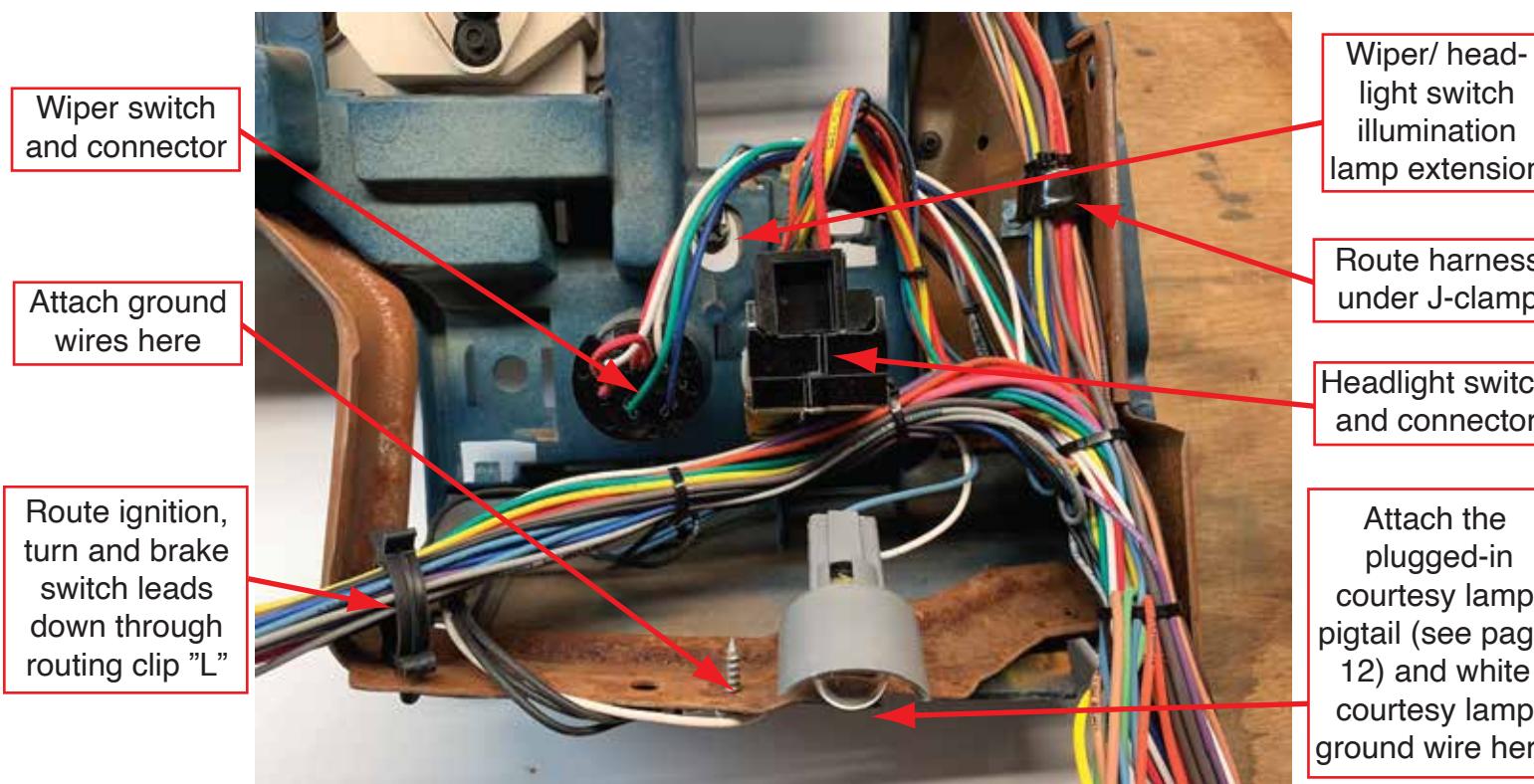
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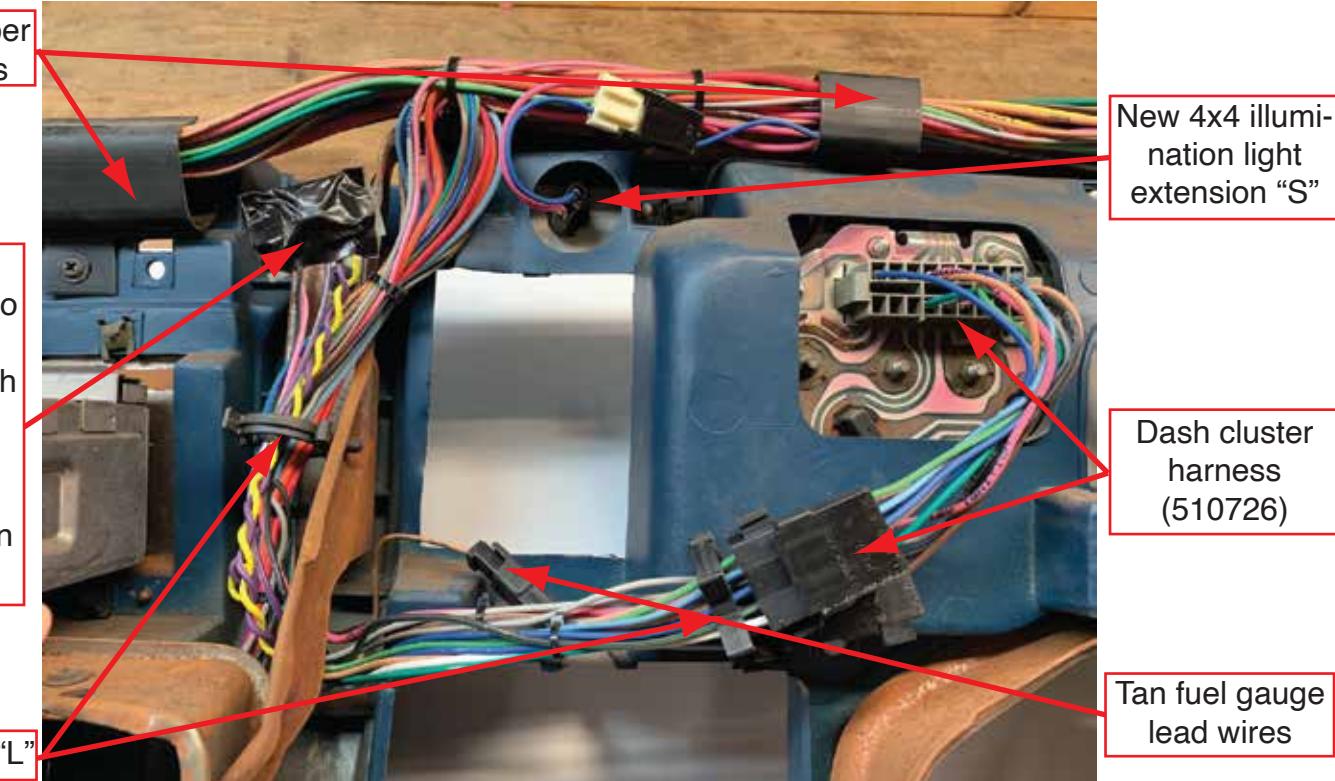
5. With the dash frame stripped of the original harness, install the "J-Clamp "J" using screw, washer & nut "K, G and H" as shown above right. Install 5 routing clips "L" in the locations shown above. Reuse upper dash conduits as shown above. Two J-Clamps "J" can be used in place of the long conduit.



6. With the RH side of the dash frame stripped of the original harness, install 4 routing clips "L" in the locations shown above. Install 2 metal edge biter clips "R" onto the plastic dash housing tabs as shown above. Begin installing dash harness (510725) onto the stripped dash frame assembly as shown in 5 and 6.



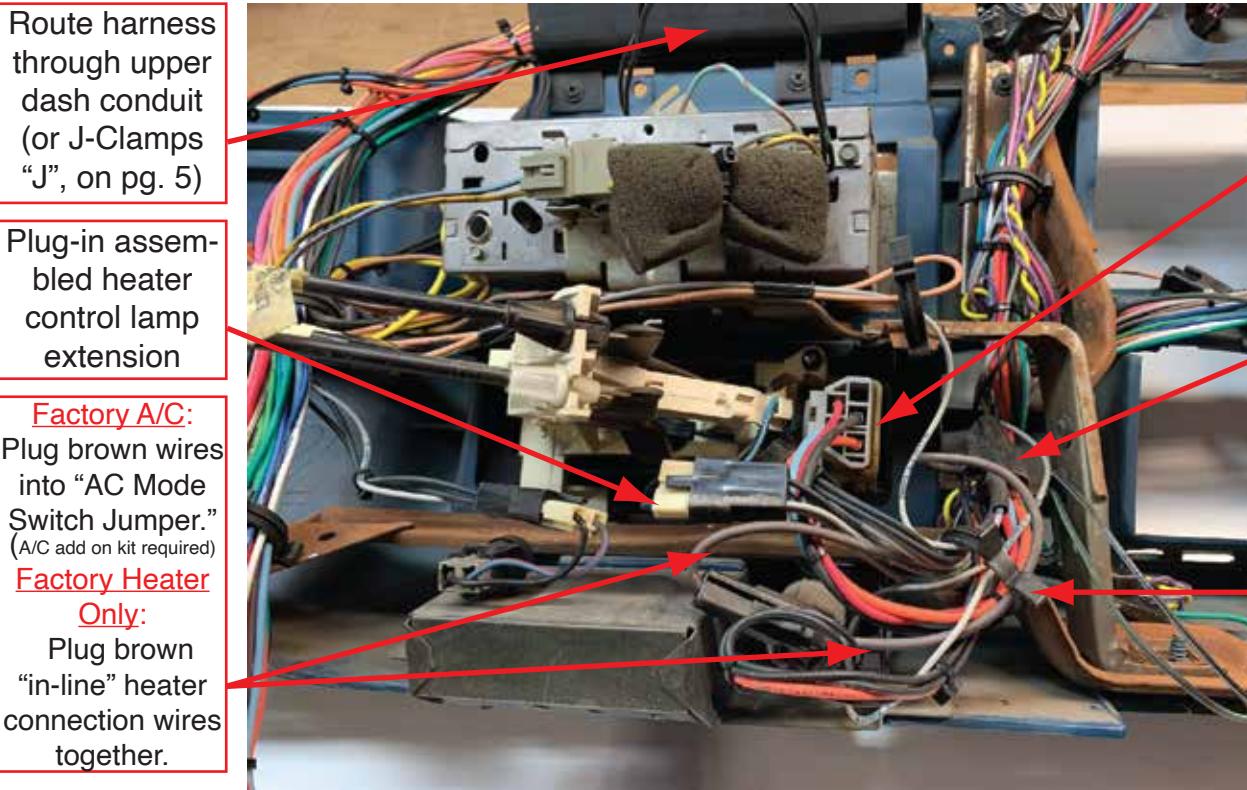
7. Plug the dash harness connectors onto the new wiper switch (510346) and headlight switch (510264) installed into the dash frame. Install under dash courtesy lamp and white courtesy lamp ground wire, black ground wires and wiper/headlight switch illumination lamp as shown. Details for lamp extensions can be found on page 12.



8. Route the dash harness across the top of the dash assembly and through the upper dash conduits. Install the new 4wd lamp extension "S" (if equipped). Continue routing through clip "L" then over to the cluster area through another routing clip "L". Plug the tan fuel gauge wires together unless you have dual tanks (if you have dual tanks, you'll need to purchase kit 510484). Build the applicable gauge cluster harness, 510726 (see pages 13-17), and plug-in as shown above.

Dash/Main harness installation instructions:

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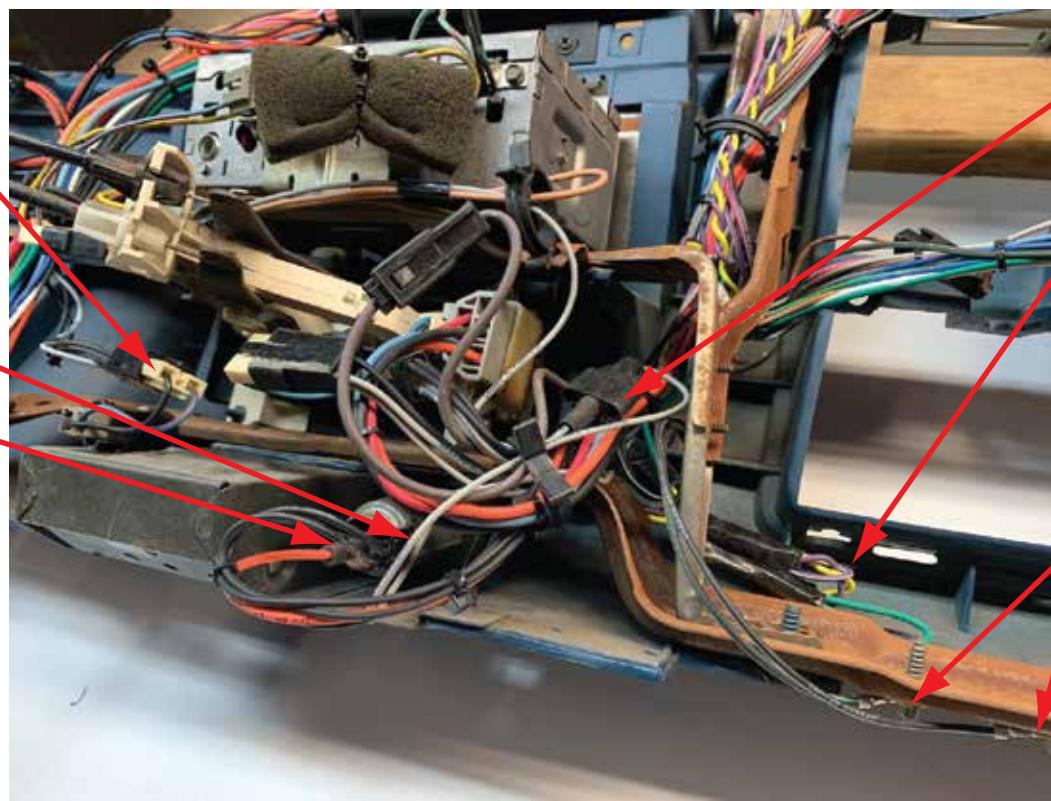
Plug-in heater blower motor switch connector

Dash lamp candelabra

Route harness down through Clip "L" and over to the heater control

Plug-in assembled ashtray lamp extension

Plug-in the cigar lighter feed and ground connections

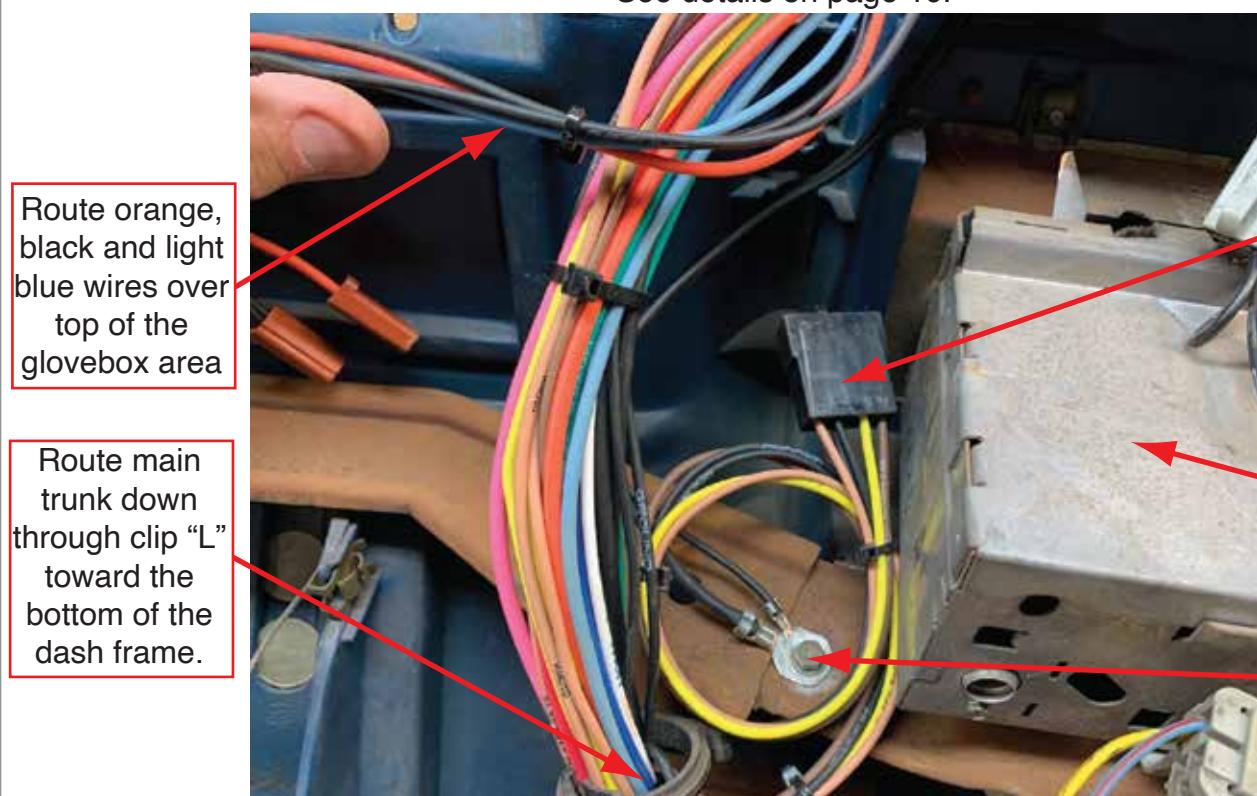


Dash lamp candelabra

VSS electric speedo extension lead

Attach ground wires for tach (black/green) and electric speedo (black/white) here. **Must use separate mounting screws**

9. Route harness through the upper dash conduit and down through routing clip "L." Build and connect the heater control lamp extension as shown on page 12. Plug-in heater blower switch connector. For heater-only applications: plug the two brown heater wires together. For factory A/C trucks: these will plug into the AC Mode Switch Jumper, available separately. The accessory dash lamp candelabra is also here in this area. See details on page 10.



Digital clock connection. See page 10 for detailed instructions

Radio Assembly

Attach ground wires here.

Route orange, black and light blue wires through the edge biter clip. Install orange and black wires onto glovebox light switch if so equipped.

Route main trunk down through clips "L" toward the bottom of the dash frame.



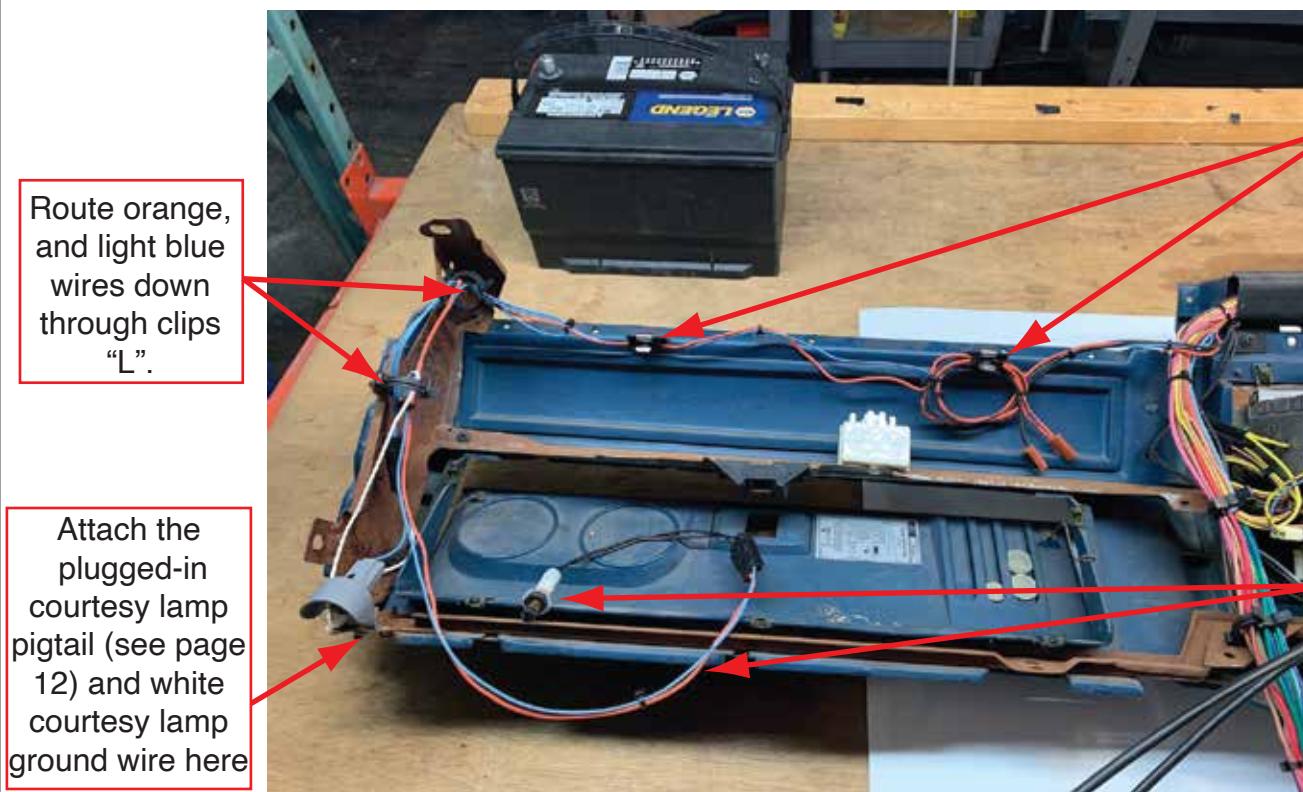
Radio and radio lamp connections. (Terminals and connectors are not provided).

11. Route the large trunk of the harness coming through the upper dash conduit down through clip "L". The orange, black and light blue wires will continue over top of the glove box area. Attach the two black ground wires as shown above. Your digital clock connection is shown above also. See page 10 for detailed connection instructions.

12. Continue routing the main harness trunk down through clips "L" to the bottom of the dash frame. Make your radio and radio lamp connections. Route the orange, black and light blue wires through the edge biter clips "R" as shown above. Attach the orange and black wires to the glove box lamp assembly (if so equipped).

Dash/Main harness installation instructions:

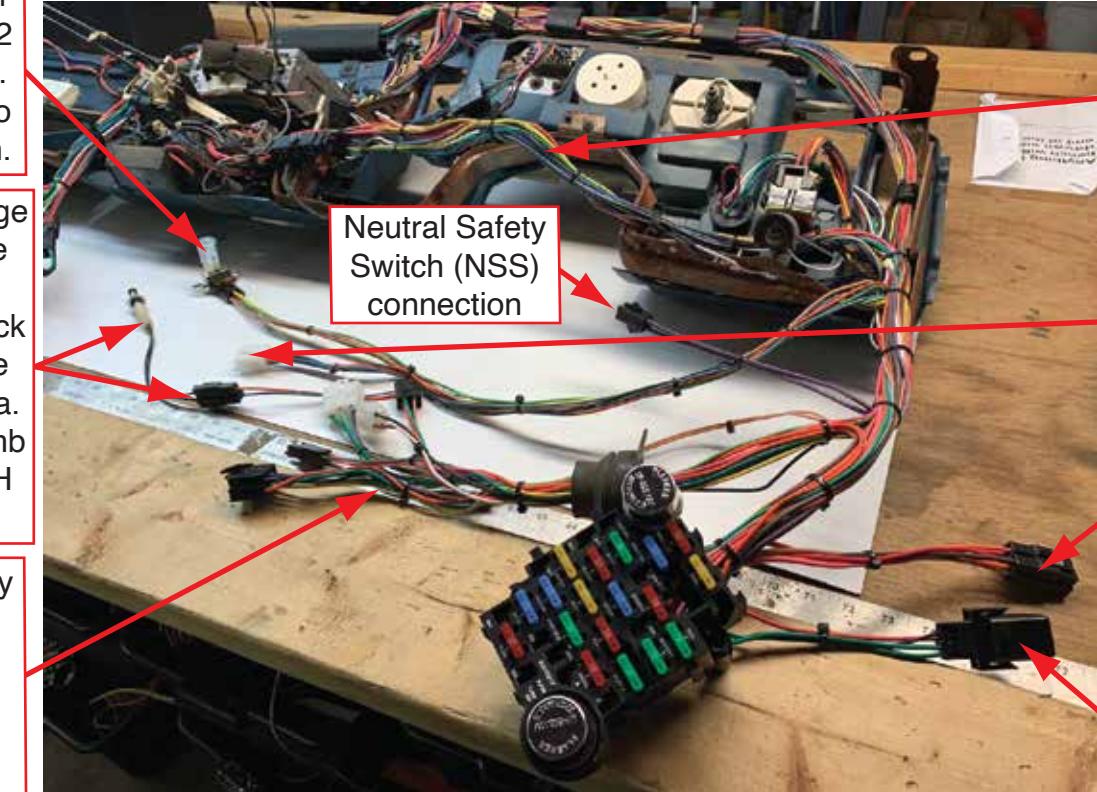
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Route orange, black and light blue wires through the edge biter clips "R" as shown.

Drop the orange and light blue wires down through the kick panel into the doorjamb area. Install doorjamb switch into LH doorjamb.

LH engine bay dash side connections. See pages 18-20 for details



Turn signal, stop light and ignition switch leads. See pages 11-12 for details

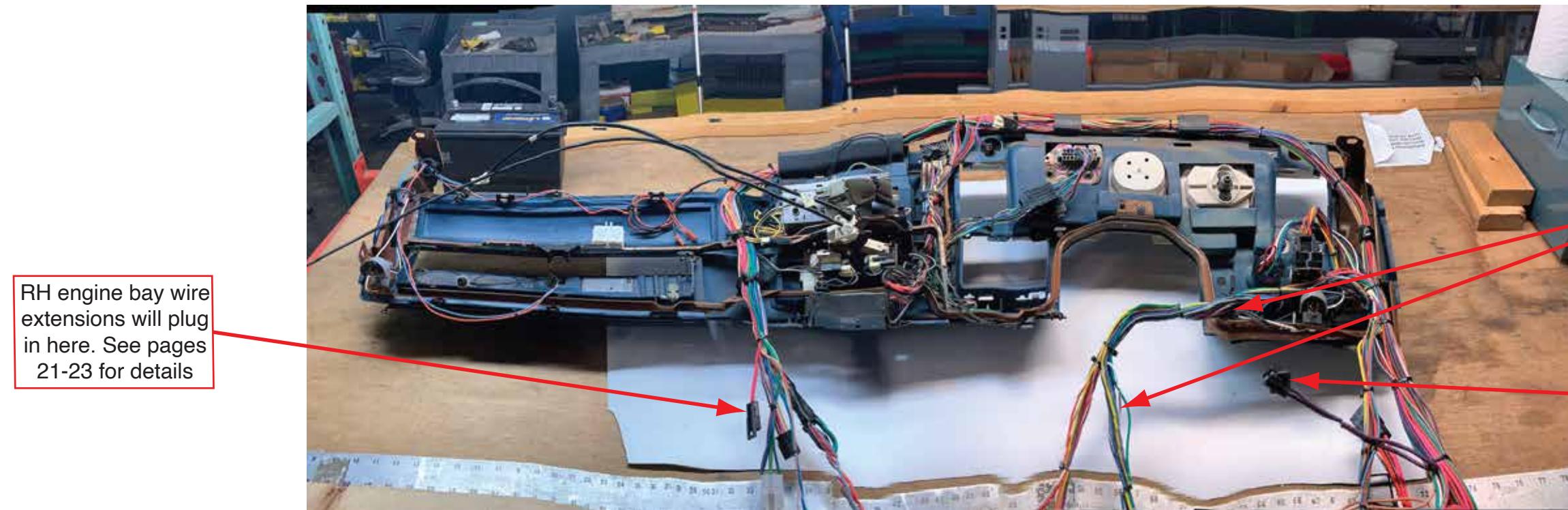
Interior rear body connector. See pages 31-33 for details

Optional accessory power feed connector (See page 10)

Installed horn relay. See page 3 of these instructions

13. Route the wires through the edge biter clips "R" and the routing clips "L". Install the Courtesy Lamp Extension "T" and make the connection (see page 12). Remove the Door Jamb Switch and route the wires through the RH Kick Panel and the Door Jamb Switch hole. Reconnect the wires to the switch and install the switch.

14. This image shows the fuse box assembly, optional accessory power feed connector, horn relay, interior rear body connector, LH doorjamb switch assembly, dimmer switch lead and switch assembly, LH engine bay dash side connections, and the turn signal, ignition switch, NSS and stop light switch leads. These items will all install after you assemble the completed dash frame back into the vehicle.



15. Your new Dash Harness should look like the above photo once you have completed the installation. If your vehicle has any of the optional Factory A/C, Dual Fuel Tanks (F-Series), Rear Defroster (Bronco), or Rear Power Window (Bronco) Systems (these optional kits are shown on page 2), install that wiring now. See the installation instructions in each kit to complete those tasks. Install the completed Dash frame into the vehicle. Connect the Neutral Safety Switch Wiring (see page 10). Install the grommet on the LH Dash Side Engine Bay wiring, route everything through the Firewall, and seat the LH grommet (see page 19). Mount the Fuse Block and the Dimmer Switch. Install the Ignition (page 12), Turn Signal (modifications required see page 11), and Stop Light Switch (page 12) connectors. Connect the RH engine bay wiring (510728) and grommet onto the dash harness assembly, install those extensions through the firewall out into the engine bay, and seat the RH grommet (see page 22).

Dash/Main harness installation instructions:

turn signal switch wiring:

“Table A”

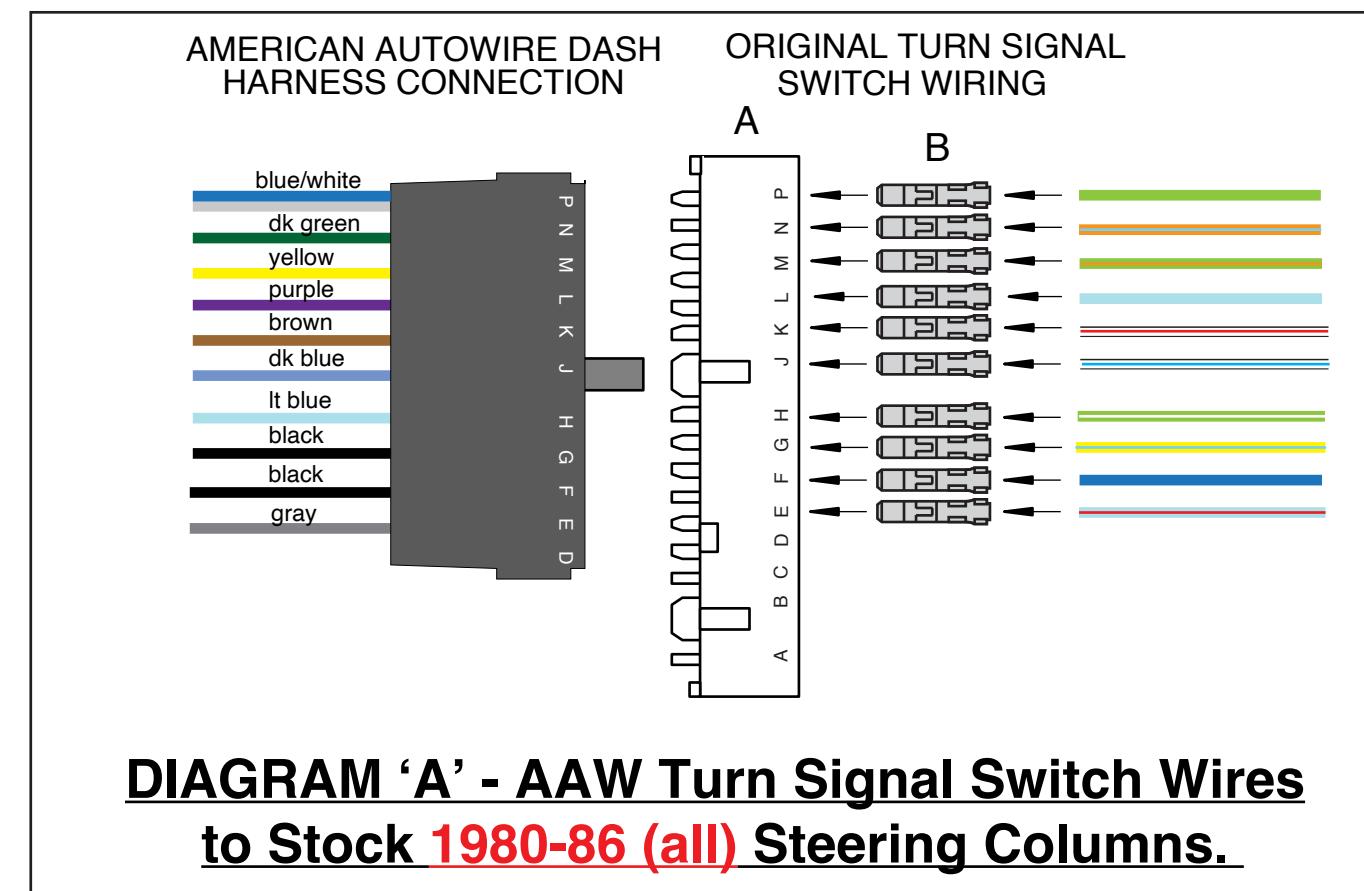
AAW Turn Signal Switch wires to stock original **1980-86 (all)** Ford Truck turn signal switch.

| AAW Wire # | AAW Wire color | AAW Wire Printing | Connector Cavity | Ford Wire Color |
|---------------|-------------------|----------------------|---------------------|-------------------------------|
| 17A,B | Blue & White | Brake Sw | P | Lt. Green. |
| 19 | Dark Green | Right Rear Turn | N | Orange with Lt. Blue stripe. |
| 18 | Yellow | Left Rear Turn | M | Lt. Green with Orange stripe. |
| 16 | Purple | Turn Switch Feed | L | Lt. Blue. |
| 27 | Brown | Turn Sw - Hazard | K | White with Red stripe. |
| 15A,B | Dark Blue | Right Front Turn | J | White with Lt. Blue stripe. |
| 14A,B | Light Blue | Left Front Turn | H | Lt. Green with White stripe. |
| 28 | Black | Horn Relay Ground | G | Yellow with Lt. Blue stripe. |
| 150C | Black | Ground | F | Dk. Blue. |
| 8B,C | Gray | Dash Lights | E | Lt. Blue with Red stripe. |
| N/A | N/A | N/A | D | N/A. |

NOTE 1: If present, the black with pink stripe Ford wire is for the key buzzer, and the white with purple stripe Ford wire is for the cruise control. Neither of these wires are supported/used with this kit and should be taped back.

NOTE 2: Remove the original turn signal switch connector from your column by cutting it off. Strip each of the original steering column wires, crimp terminals “B” onto them, then plug them into connector “A” using “Table A” and “Diagram”A” on this page as a guide. Items “A” and “B” (from page 5) can be found in the dash loose piece kit (92972215).

NOTE 3: Wires indicated as having a “stripe” on them, may have a stripe, hashes or dots, to indicate the secondary color.



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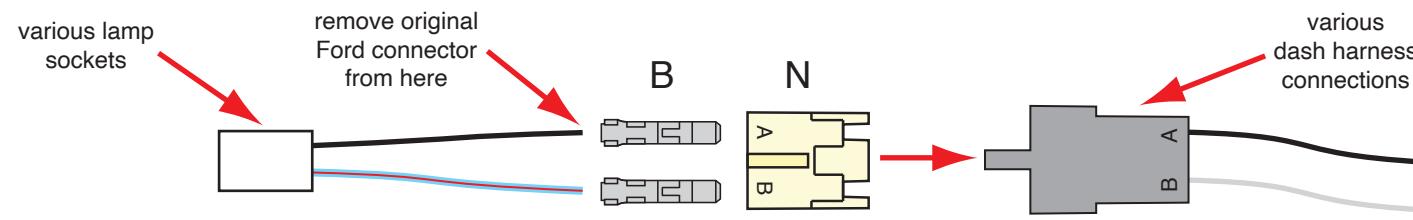
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Dash/Main harness installation instructions:

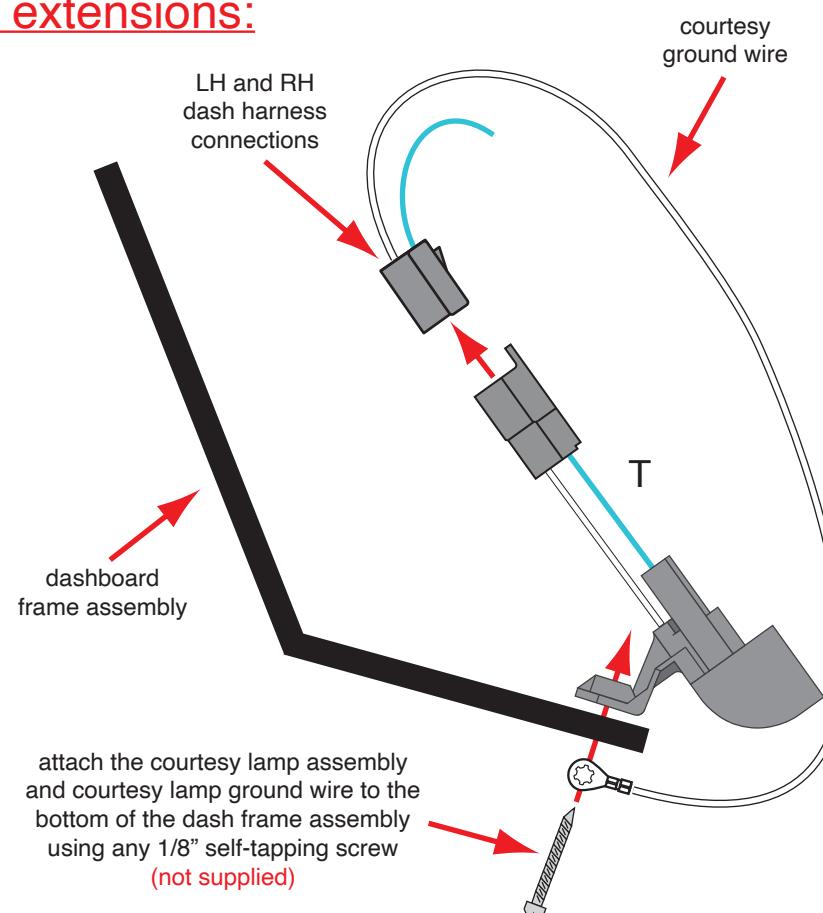
building the dash lamp extension assemblies:

The lamp sockets on the AC / heater control, headlight and wiper switch, ashtray and (optional) rear defroster dash illumination lamps are not available, and must be re-used. They all have the same light blue/red stripe and a black wires going into the sockets. You will need to cut the original Ford connectors off of each of the these lamp extensions, strip the wires, and from page 5, crimp on terminal "B" then plug the wires into connector "N" as shown below. These completed pigtailed will plug into your new AAW dash harness as shown on pages 7 and 8. If you have a Bronco with the rear defroster option, instructions creating and plugging-in that connection are found in that optional kit, 510485.



assembling the courtesy lamp extensions:

Install one courtesy lamp extension "T" on each of the LH and RH courtesy lamp connections of the dash harness. These completed lamp assemblies will mount to the bottom of the dash frame assembly in the locations shown on pages 7 (photo #7) and 9 (photo #13). Attach the white ground wire under the same screw that you use to mount the courtesy lamp (screws not included).



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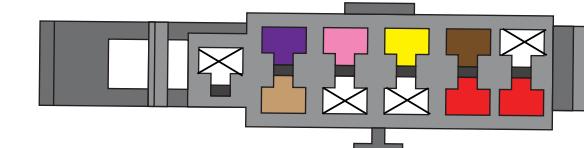
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ignition switch connector and wiring:

side view of connector



This original style Ford ignition switch connector is part of a branch of wires that also includes the turn signal and stop light switch leads. This branch routes through clip "L" as shown on page 9, photograph 15. Once the completed dash frame has been re-installed back into the vehicle, this connector and wiring will plug onto your original, column mounted, Ford ignition switch.



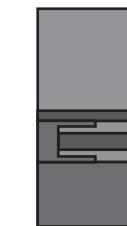
open end view of connector

stop light switch connector and wiring:

open end view of connector

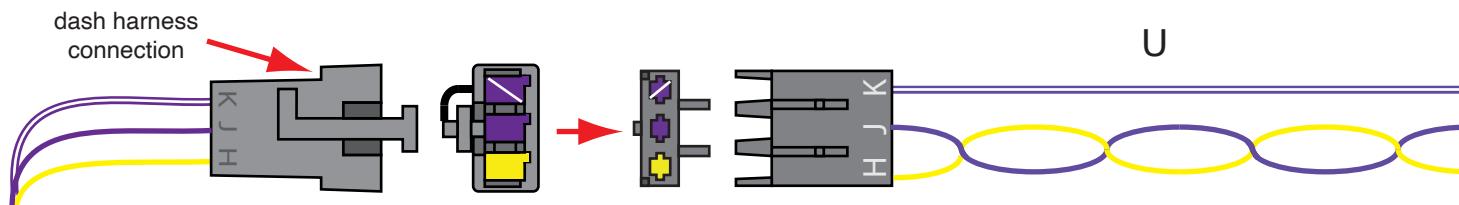


side view of connector



This original style Ford stop light switch connector is part of a branch of wires that also includes the turn signal and ignition switch leads. This branch routes through clip "L" as shown on page 9, photograph 15. Once the completed dash frame has been re-installed back into the vehicle, this connector and wiring will plug onto your original, brake pedal mounted, Ford stop light switch.

electric speedo VSS extension connection:



If you are using an aftermarket electric speedometer in your vehicle, you will need to connect the vehicle speed sensor extension pigtail "U" to the dash side connection (see page 8, photograph 10) on your dash harness. The yellow and solid purple wires must remain twisted together as shown above on "U". These three wires will need to pass out into the engine bay through the RH firewall grommet down to the transmission. Generally, the solid purple wire connects to the "signal" lead, the yellow wire connects to the "ground" lead, and the purple/white stripe wire connects to the "12 volt power" lead on the vehicle speed sensor assembly, but you should connect per the manufacturer's instructions.

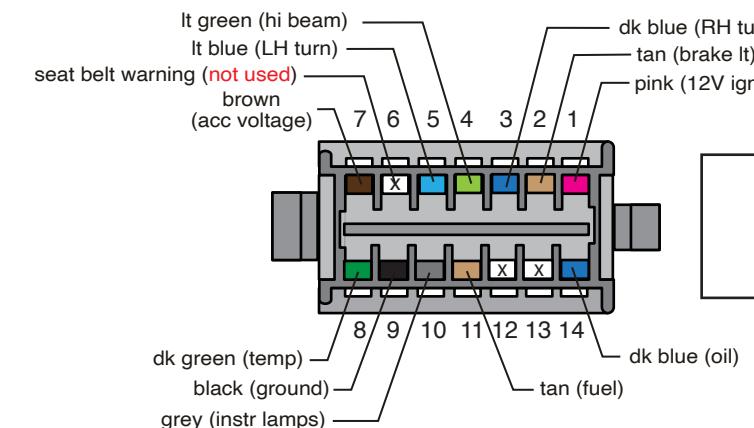
Gauge Cluster harness installation instructions:

USE THIS SHEET TO CONNECT TO AN ORIGINAL **1980 FORD TRUCK**
STANDARD INSTRUMENT CLUSTER WITH FUEL AND TEMP GAUGES ONLY

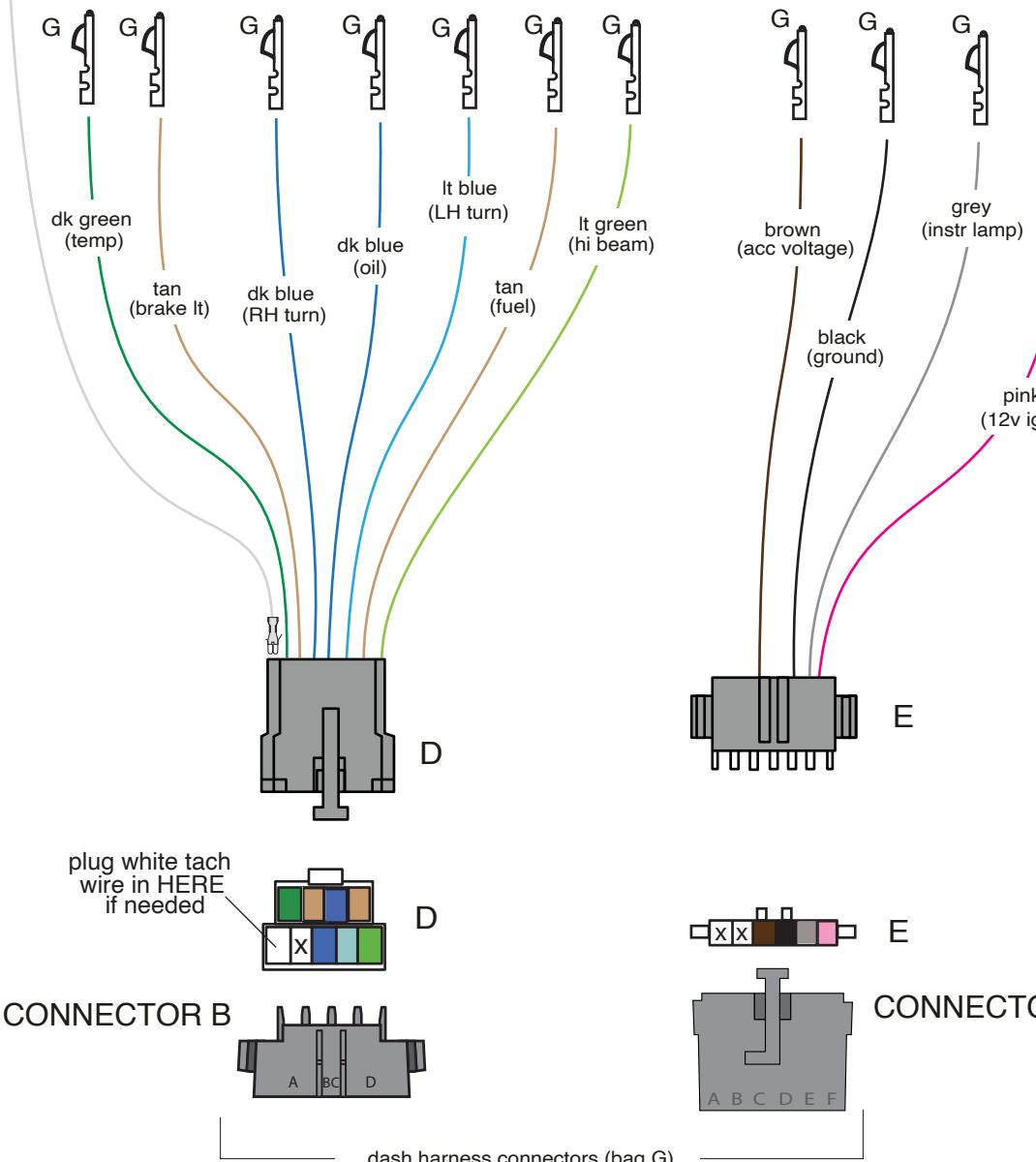
NOTE: This AAW kit does not support the use of a factory ammeter, alternator warning lamp, or seat belt warning lamp. AAW suggests using a voltmeter to monitor the charging system of your vehicle.

1. There were 4 different stock dash cluster configurations used on the 1980-86 Ford trucks. Specific instructions for the different years and applications follow on pages 13 through 16 of this instruction set. Please choose the one that applies to your truck to complete your installation.
2. You will need to re-use your original dash cluster connector, as it is not available. We have provided new terminals "G" for you to crimp onto the wires of the new cluster harness (510726). These terminals will plug into your original stock dash cluster connector.
3. If you are using an aftermarket cluster or gauges, please refer to page 17 for detailed instructions for your installation. Terminal kit 92965220 has been provided to complete most any aftermarket gauge panel installation.

14-WAY CIRCUIT BOARD CONNECTOR



Note: Connector not available, you must reuse your original.



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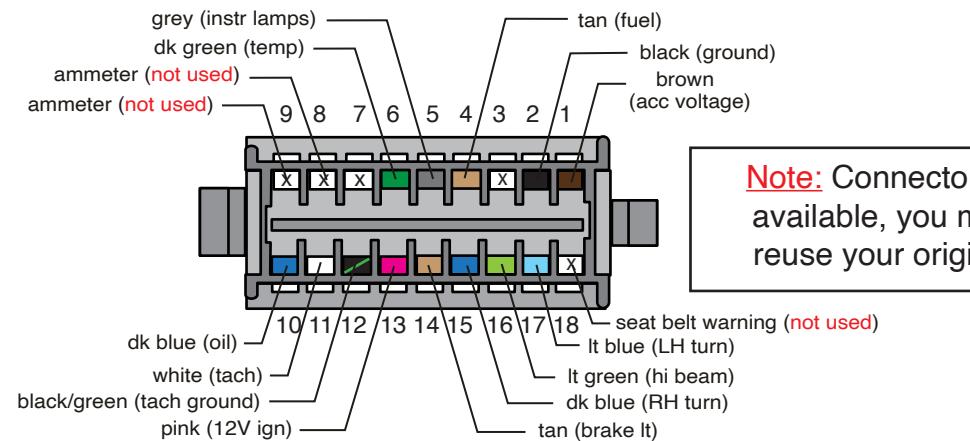
**510724 1980-86 Ford
F-Series and Bronco
Classic Update Series**

92972210 Rev 5.0 ADB 1/9/2026

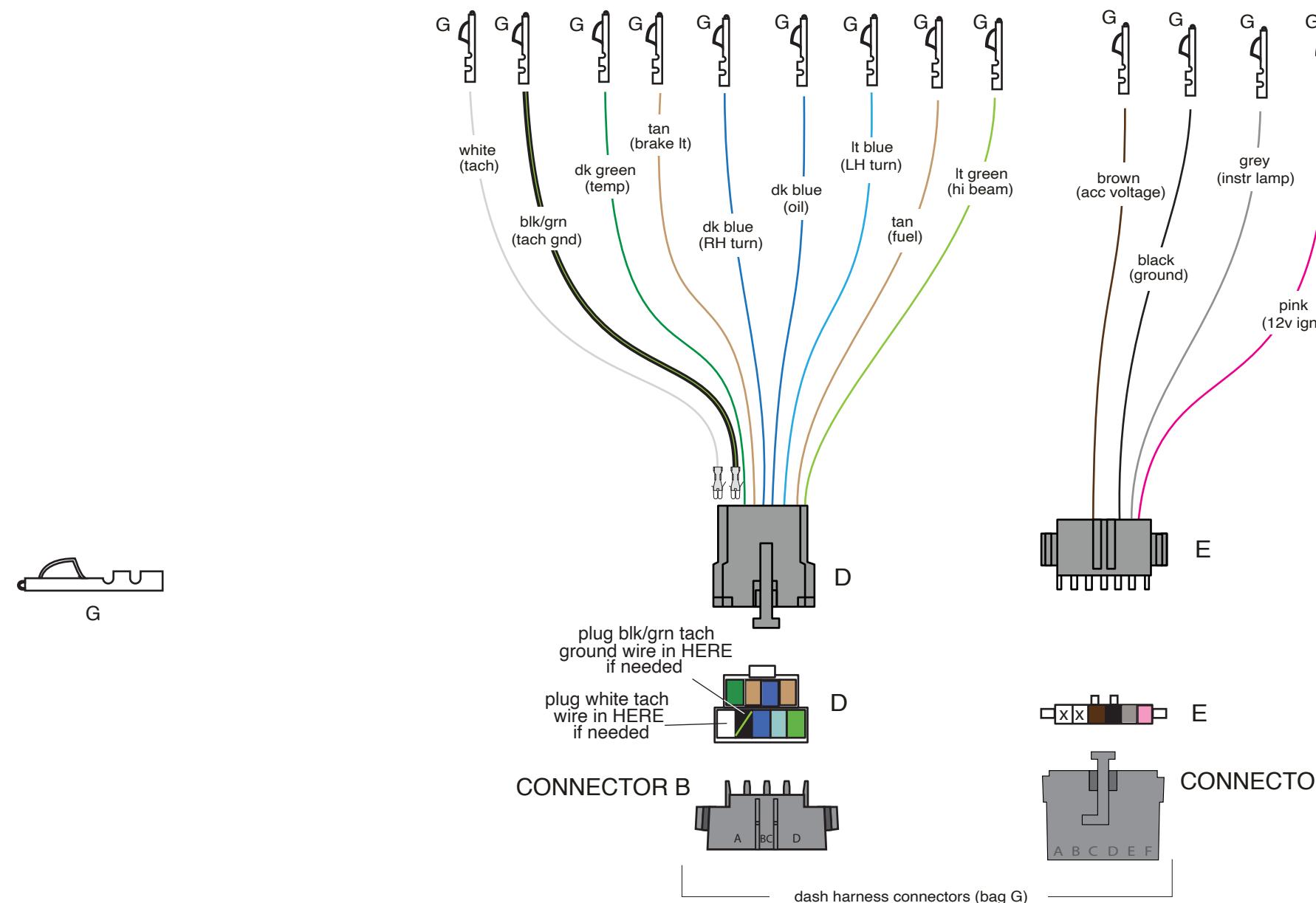
Gauge Cluster harness installation instructions:

USE THIS SHEET TO CONNECT TO AN ORIGINAL **1980 FORD TRUCK** OPTIONAL INSTRUMENT CLUSTER
WITH FUEL, TEMP AND OIL GAUGES WITH or W/O OPTIONAL TACH (ammeter and seat belt waring not supported)

18-WAY CIRCUIT BOARD CONNECTOR



tach wiring
(OPTIONAL)



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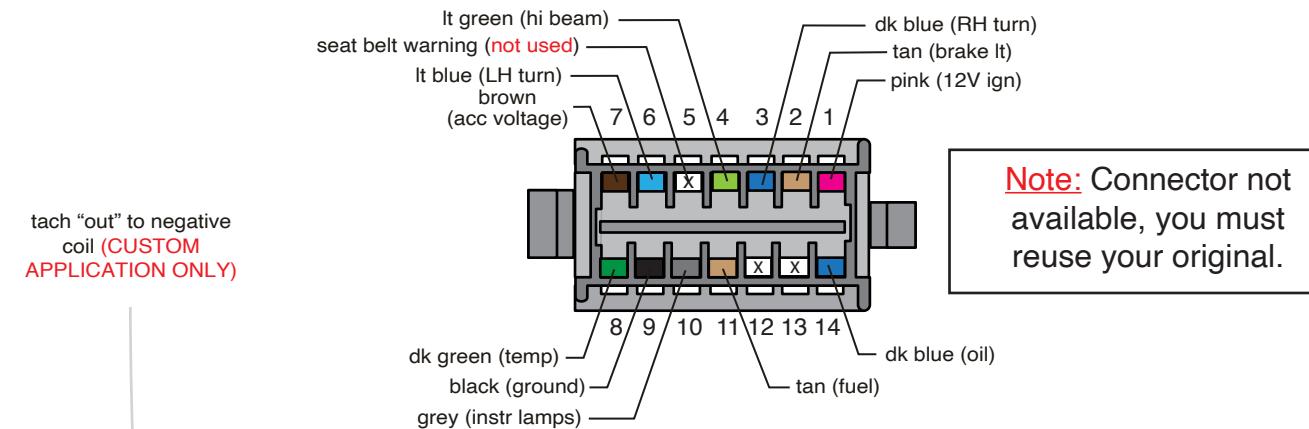
**510724 1980-86 Ford
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Classic Update Series**

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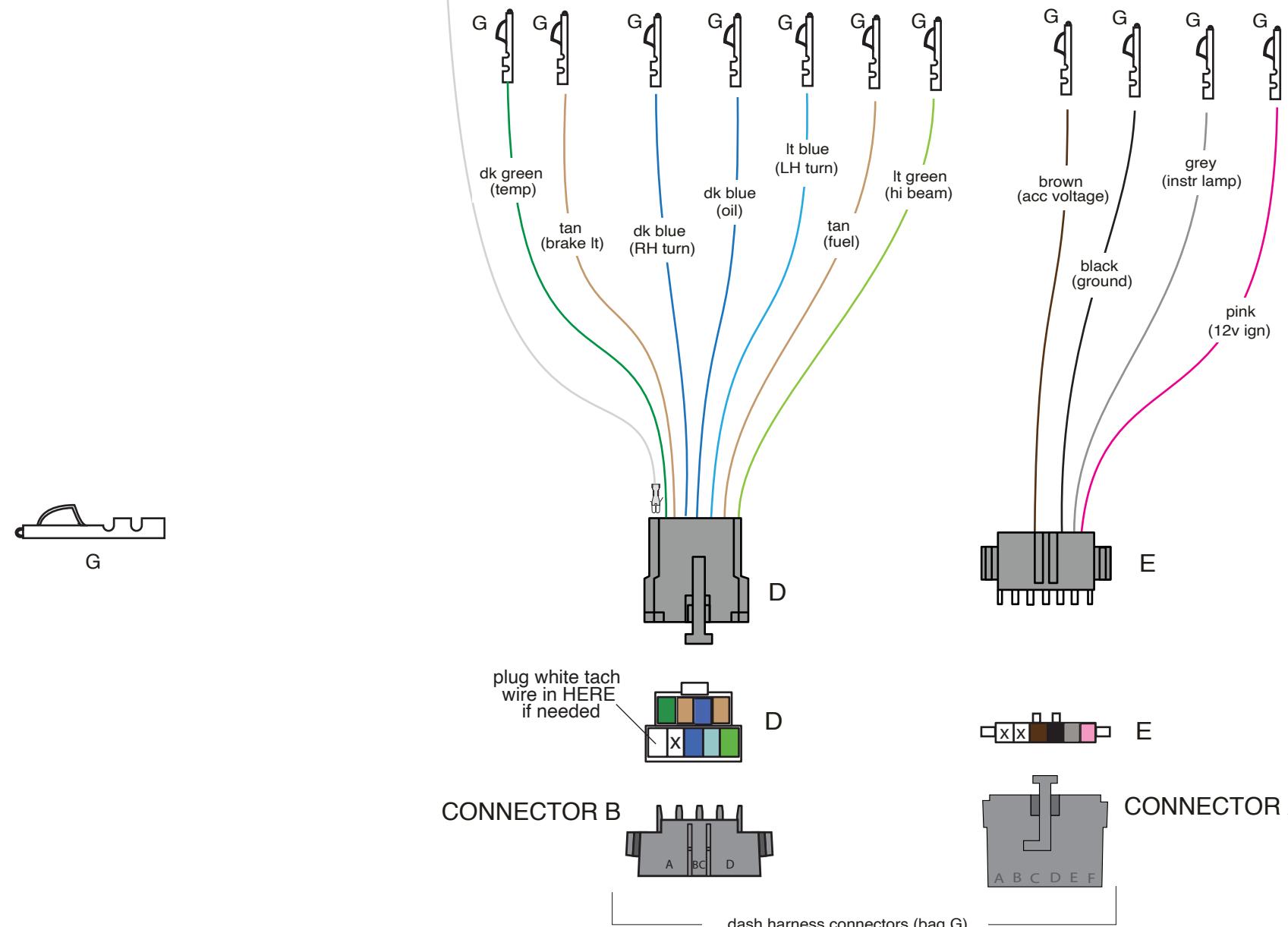
Gauge Cluster harness installation instructions:

USE THIS SHEET TO CONNECT TO AN ORIGINAL **1981-86 FORD TRUCK**
STANDARD INSTRUMENT CLUSTER WITH FUEL AND TEMP GAUGES ONLY

14-WAY CIRCUIT BOARD CONNECTOR



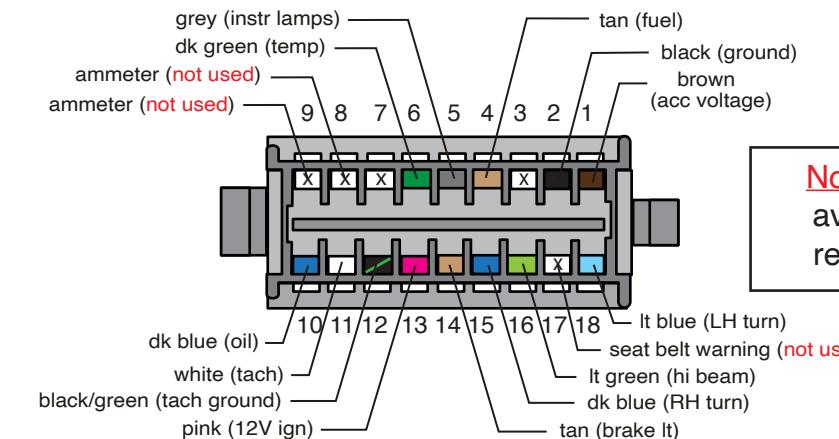
tach "out" to negative
coil (CUSTOM
APPLICATION ONLY)



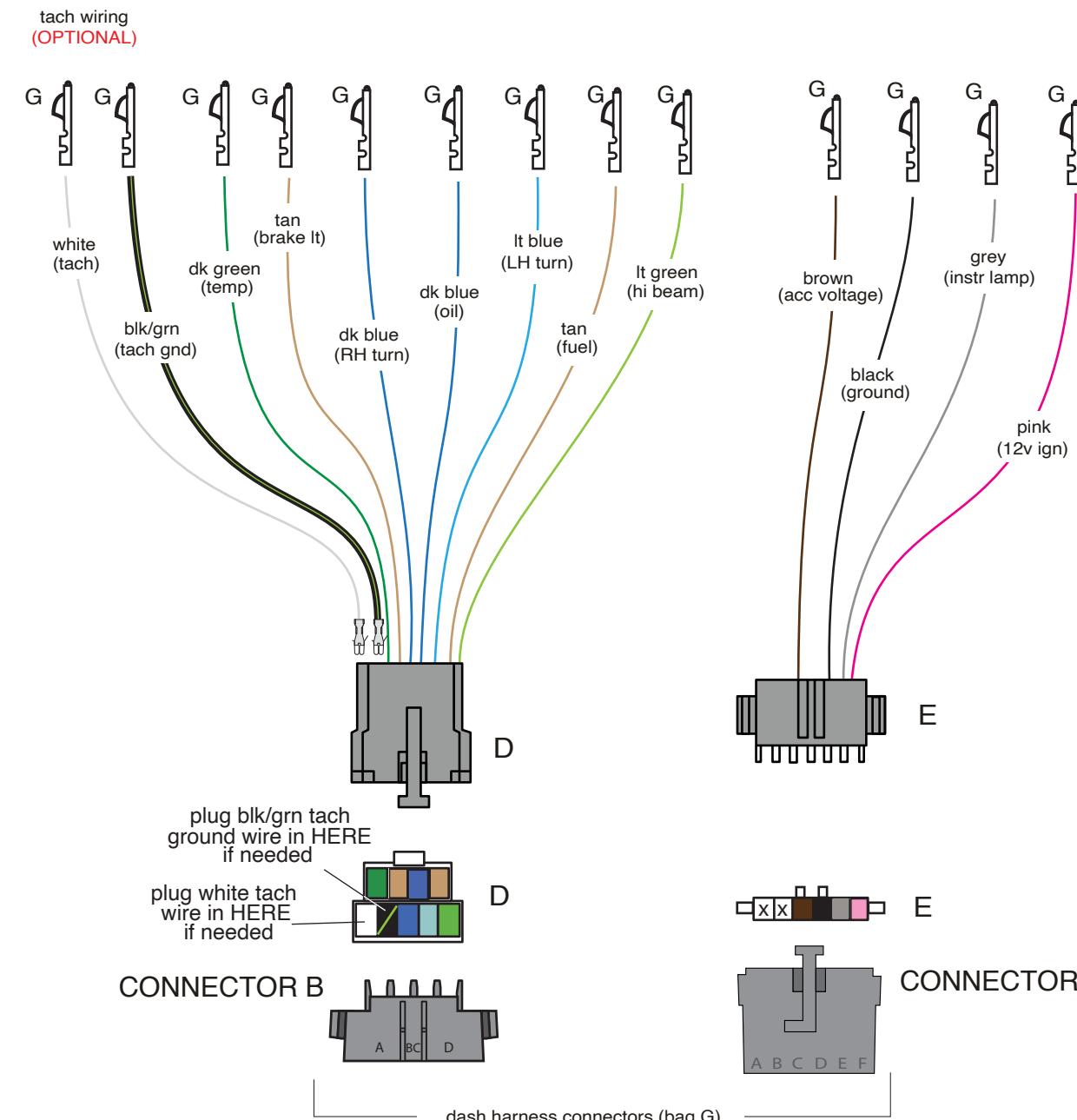
Gauge Cluster harness installation instructions:

USE THIS SHEET TO CONNECT TO AN ORIGINAL **1981-86 FORD TRUCK** OPTIONAL INSTRUMENT CLUSTER
WITH FUEL, TEMP AND OIL GAUGES WITH or W/O OPTIONAL TACH (ammeter and seat belt waring not supported)

18-WAY CIRCUIT BOARD CONNECTOR



Note: Connector not available, you must reuse your original.



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Autowire**

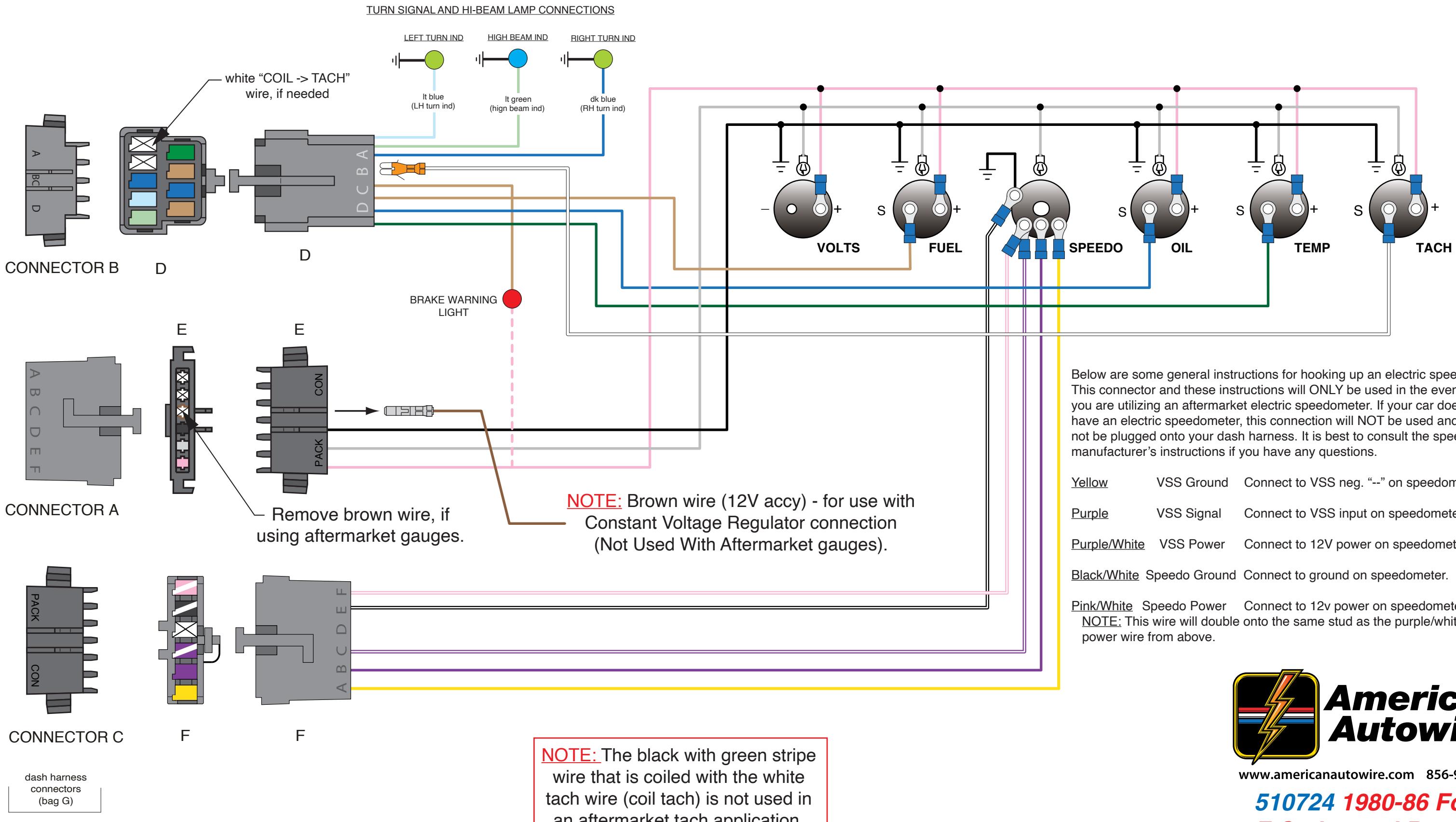
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Gauge Cluster harness installation instructions:

SHOWN BELOW IS A TYPICAL AFTERMARKET GAUGE INSTALLATION PROCEDURE.
FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR BEST RESULTS.



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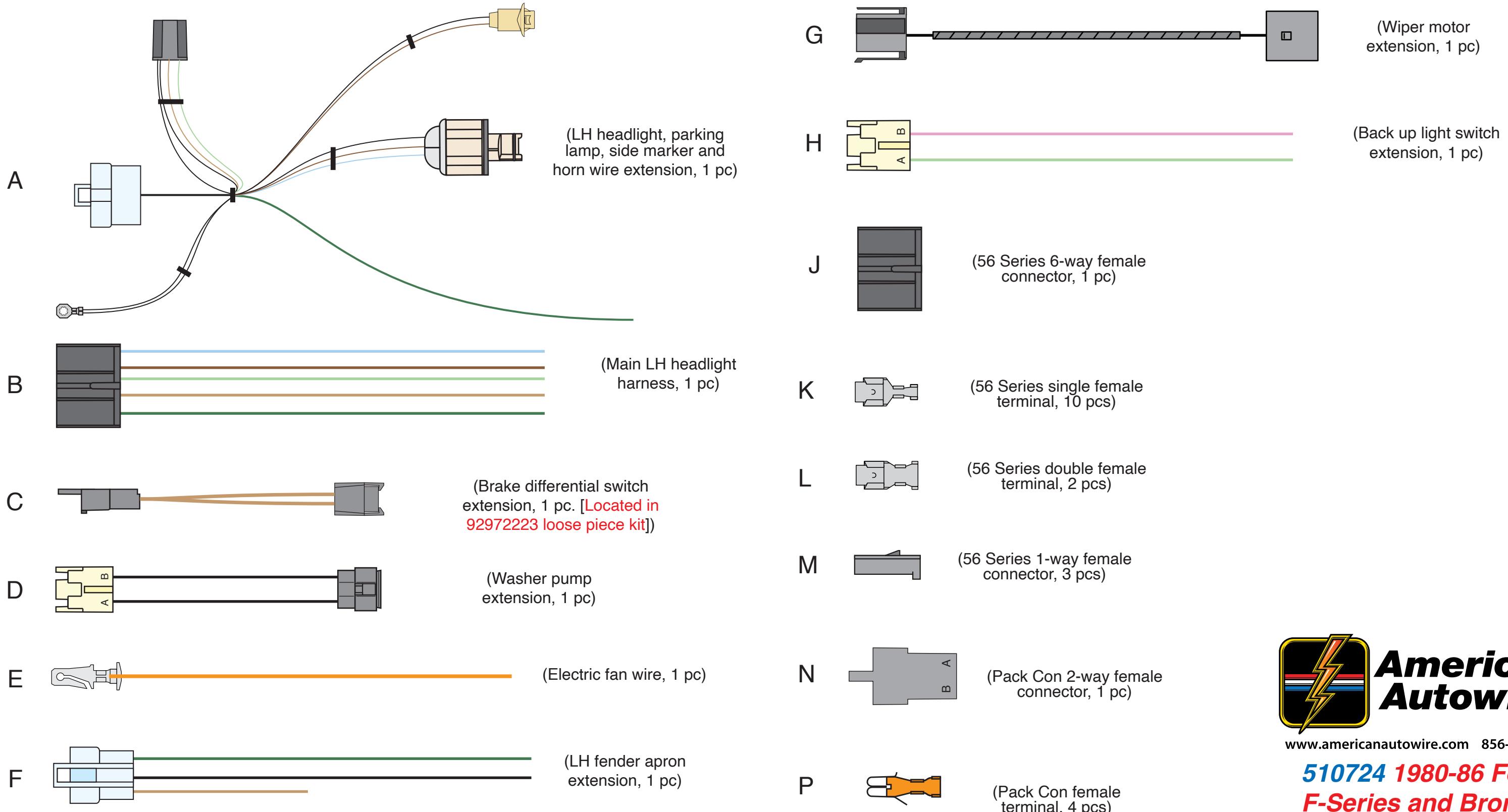
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**510724 1980-86 Ford
F-Series and Bronco
Classic Update Series**

92972210 Rev 5.0 ADB 1/9/2026

510727 LH engine bay installation instructions:

Below are the supplied harness extensions, terminals, connector bodies and assorted components included in the LH Engine Bay Harness and Loose Piece bags. These will be used to complete your LH engine bay connections and are referred by the letters and descriptions below from this point forward.

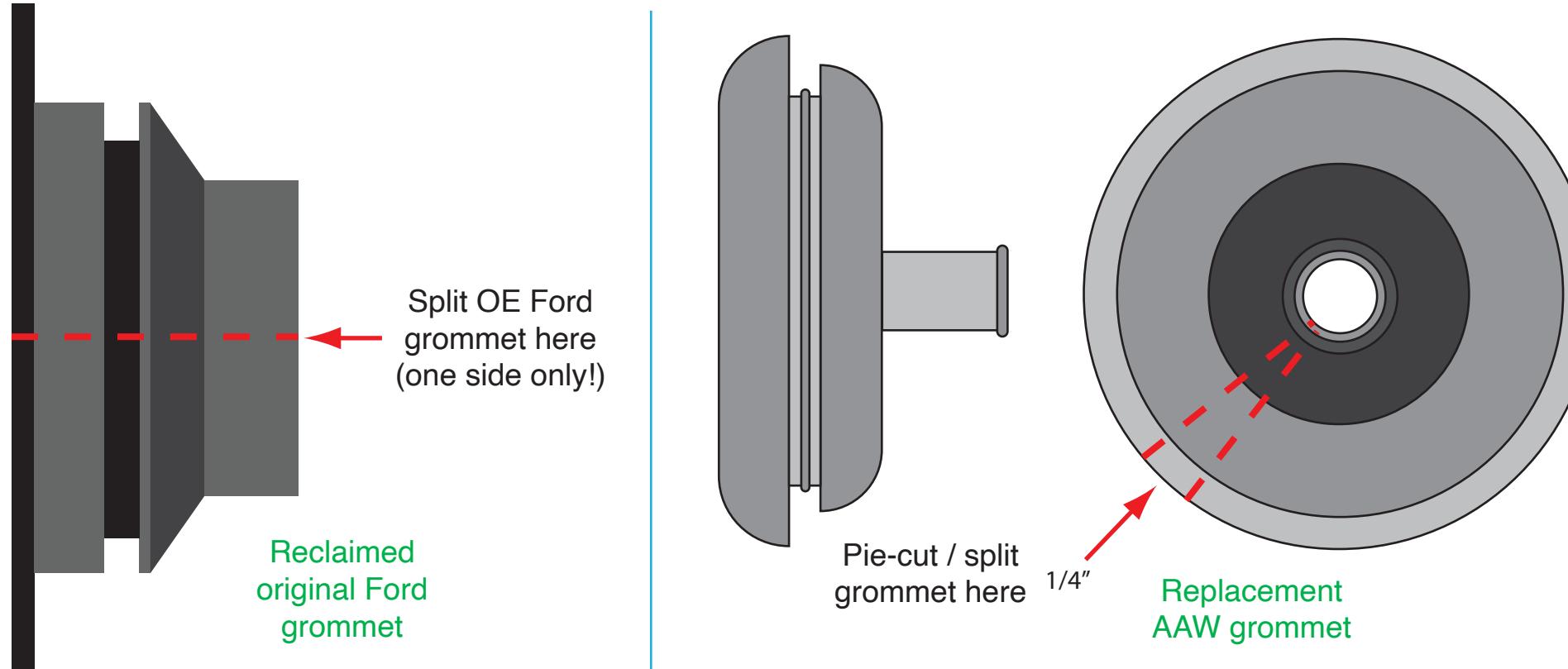


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**510724 1980-86 Ford
F-Series and Bronco
Classic Update Series**

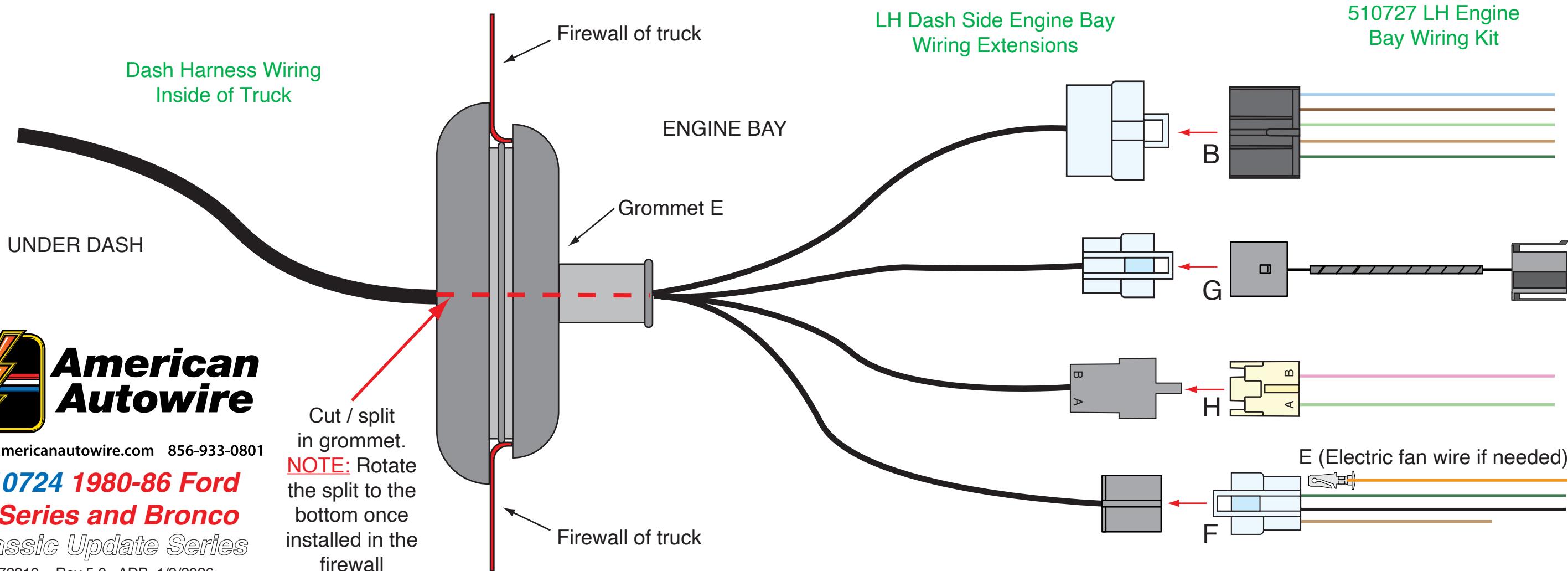
92972210 Rev 5.0 ADB 1/9/2026

LH engine bay installation instruction details:



NOTE: Before you route your Dash Harness through the Firewall, follow these instructions:

1. We recommend that you re-use your original Ford Grommet that is located on the LH branch of your original Instrument Panel Wiring Harness and was seated in the Firewall. Split your grommet by cutting it on one side only, remove it from the original harness and fit it over the new Dash Harness Wiring as shown below.
2. If your original grommet is not salvageable, we have provided a new grommet (see item "E" on page 5). This grommet can be found in the Loose Piece Kit in the Dash Harness Bag 510725. You will have to split and pie cut this new grommet as shown here. Attach it to the Dash Harness Wiring as shown below.
3. Once the grommet is installed, route all of the wiring through the firewall opening and seat the grommet in the firewall. Details regarding the final assembly of the wires included in the LH Engine Bay Harness (510727) are shown on page 20.



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LH engine bay installation instructions

wiper motor wiring plug

Wiper motor extension harness G from page 18

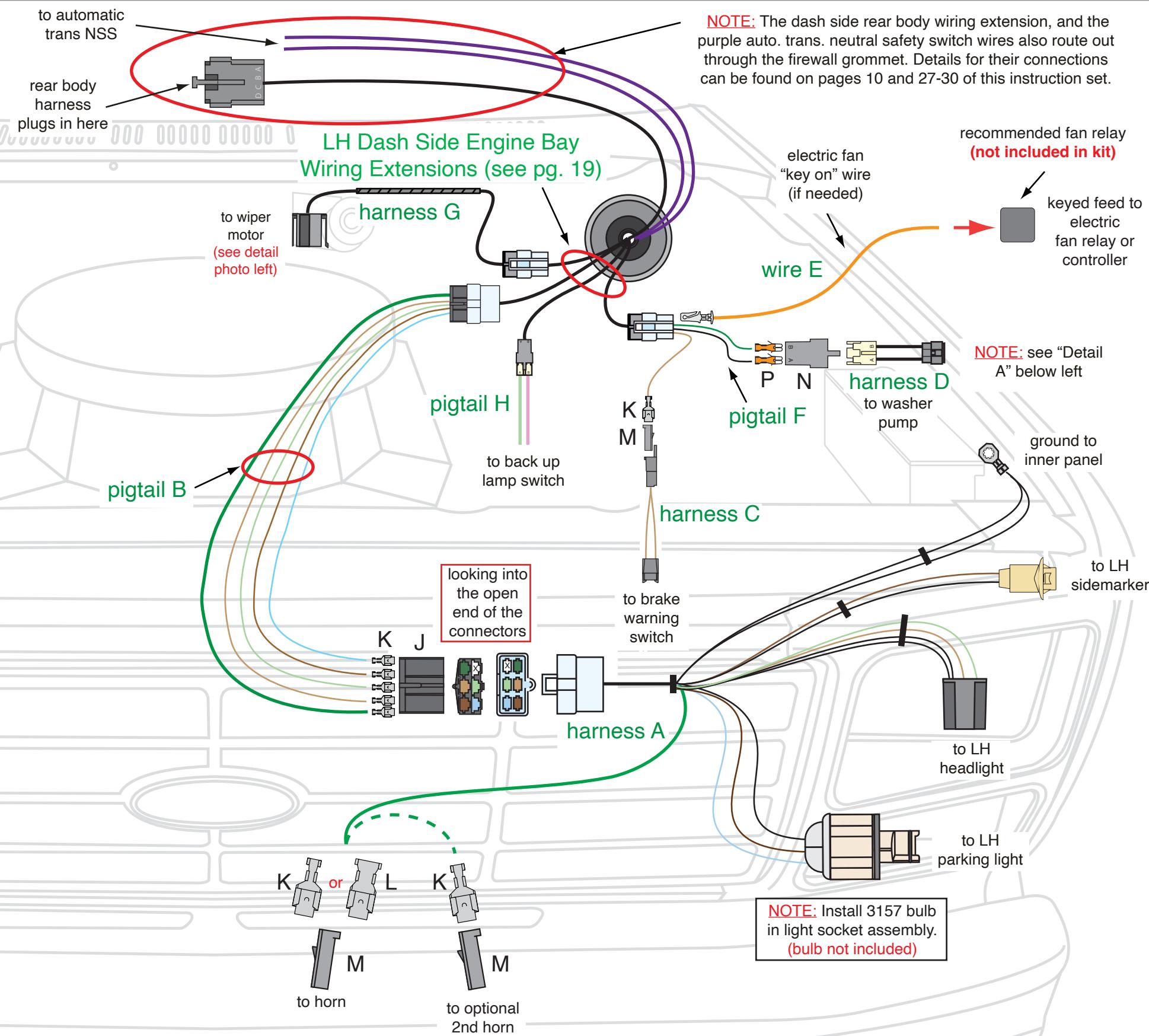


NOTE: the dk. green wire MUST be plugged into the “B” cavity on connector N as shown below for the washer pump to operate properly

pigtail F

“Detail A”

harness □ washer pump extension



NOTE: The dash side rear body wiring extension, and the purple auto. trans. neutral safety switch wires also route out through the firewall grommet. Details for their connections can be found on pages 10 and 27-30 of this instruction set.

recommended fan relay
(not included in kit)

keyed feed to
electric
fan relay or
controller

NOTE: see “Detail A” below left

10 of 10

to LH

NOTE: Install 3157 bulb in light socket assembly. (bulb not included)



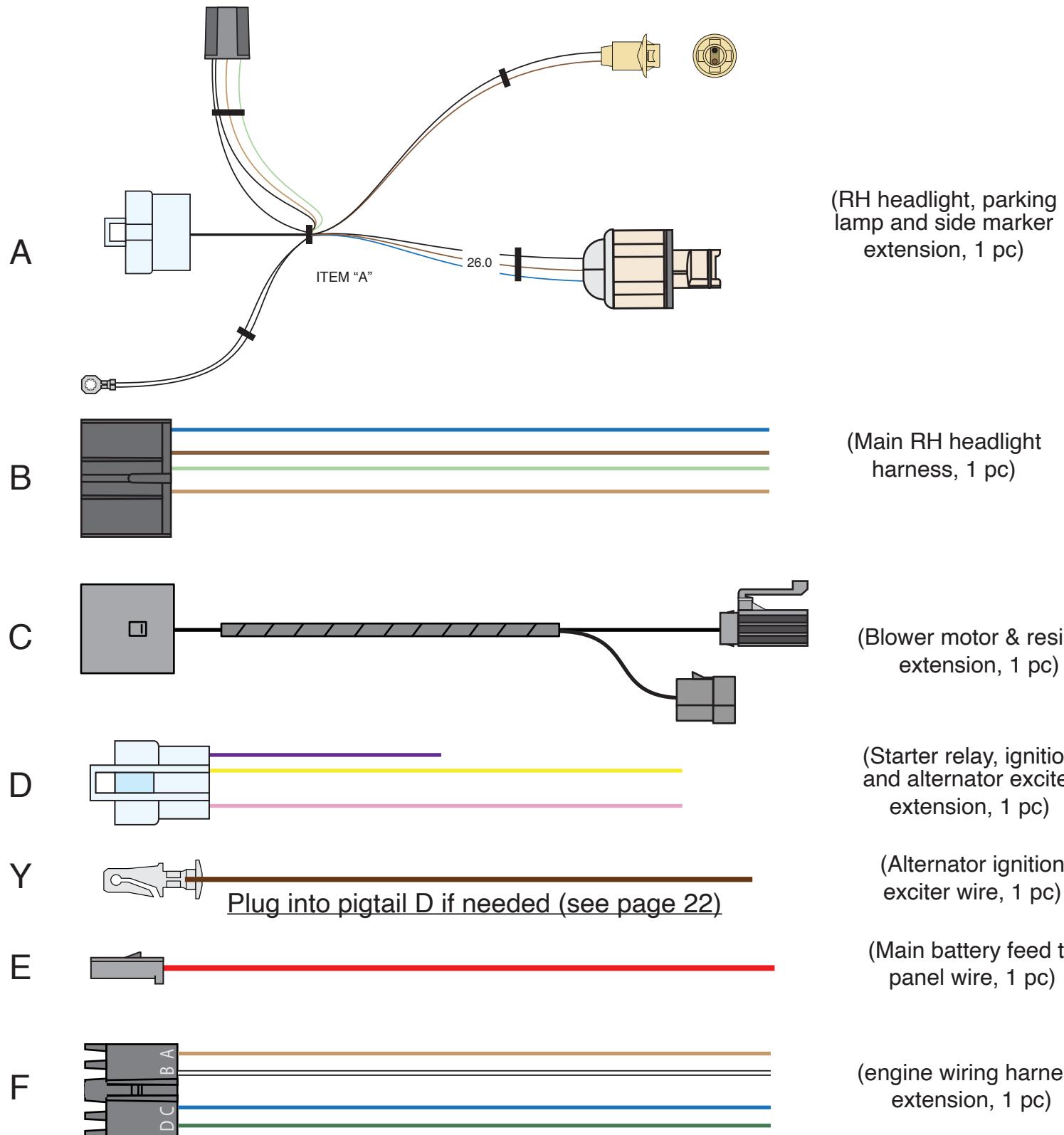
American Autowire

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510724 1980-86 Ford F-Series and Bronco Classic Update Series

510728 RH engine bay installation instructions:

Below are the supplied misc. harness extensions, terminals, connector bodies and assorted components included in the RH Engine Bay Harness and Loose Piece bags. These will be used to complete your RH engine bay connections and are referred by the letters and descriptions below from this point forward.



| | | | | | |
|----------|--|--|----------|--|---|
| G | | (SI alternator jumper extension, 1 pc) | V | | (56 Series single male terminal, 4 pcs) |
| H | | (ring terminal, 4 pcs) | W | | (56 Series double male terminal, 5 pcs) |
| J | | (ring terminal, 4 pcs) | X | | (female pin terminal, 3 pcs) |
| K | | (small sleeve, 4 pcs) | | | |
| L | | (large sleeve, 6 pcs) | | | |
| M | | (56 Series 1-way female connector, 9 pcs) | | | |
| N | | (56 Series single female connector, 3 pcs) | | | |
| P | | (56 Series single female connector, 1 pc) | | | |
| Q | | (56 Series single female connector, 1 pc) | | | |
| R | | (56 Series 6-way female connector, 1 pc) | | | |
| S | | (56 Series single female terminal, 14 pcs) | | | |
| T | | (56 Series double female terminal, 6 pcs) | | | |
| U | | (56 Series single male connector, 4 pc) | | | |

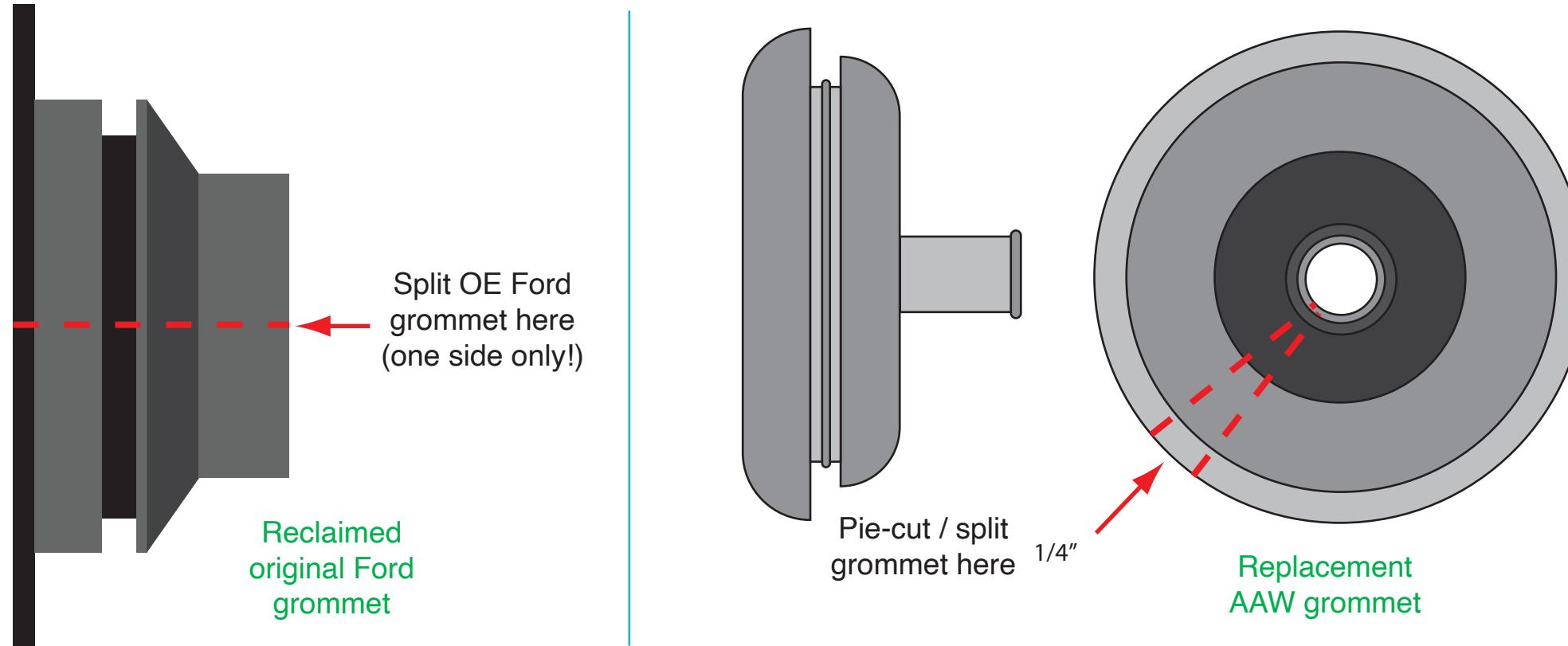


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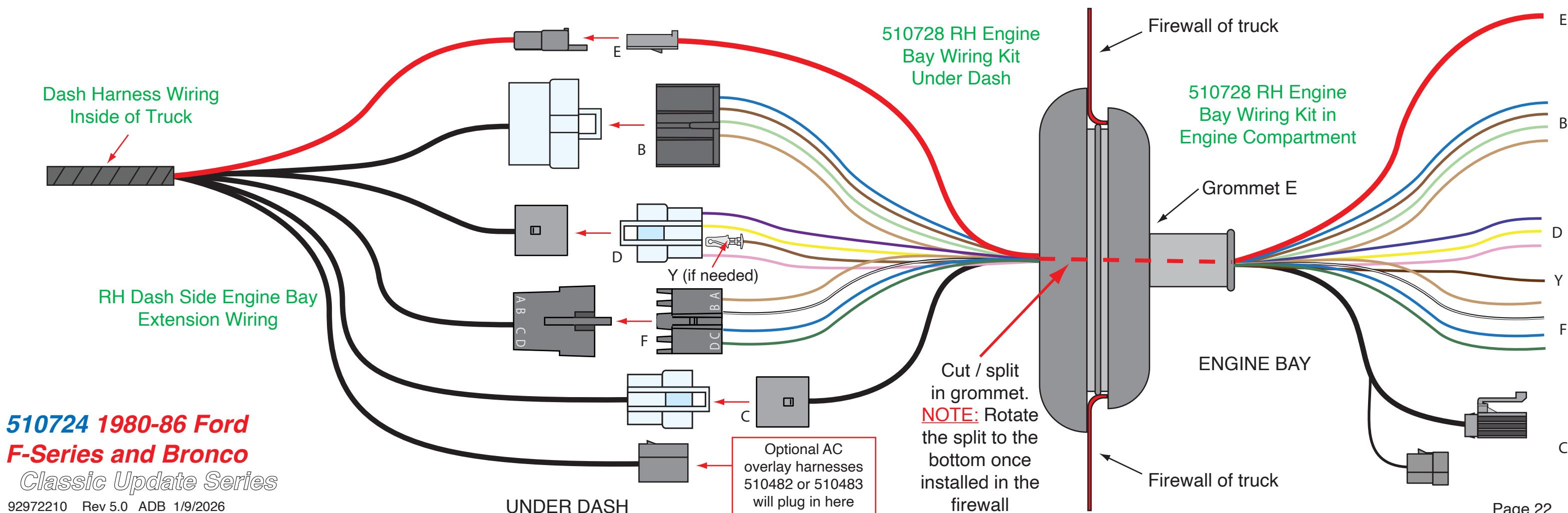
92972210 Rev 5.0 ADB 1/9/2026

RH engine bay installation instruction details:



NOTE: Before you route your Dash Harness through the Firewall, follow these instructions:

1. We recommend that you re-use your original Ford Grommet that is located on the RH branch of your original Instrument Panel Wiring Harness and was seated in the Firewall. Split your grommet by cutting it on one side only, remove it from the original harness and fit it over the new RH Engine Bay Harness (510728) as shown below.
2. If your original grommet is not salvageable, we have provided a new grommet (see item "E" on page 5). This grommet can be found in the Loose Piece Kit in the Dash Harness Bag 510725. You will have to split and pie cut this new grommet as shown here. Attach it to the RH Engine Bay Harness (510728) as shown below.
3. With the grommet installed on the RH Engine Bay Wiring, route it through the firewall opening and seat the grommet into the firewall. Plug the Dash Side Engine Bay Extension Wiring into the RH Engine Bay Wiring. Details regarding the final assembly of the wires included in the RH Engine Bay Wiring (510728) are shown on page 23.



RH engine bay installation instructions:

Installation of the firewall grommet and connection of the 510728 wiring harness to the dash harness can be found on page 22.

from pigtail D

to blower and resistor

harness C

these connections are inside of the truck. See details on page 22.

from dash harness

ground to inner panel

Battery

positive battery cable (not included in kit)

positive battery cable (not included in kit)

to RH headlight

to RH parking light

NOTE: Install 3157 bulb in light socket assembly. (bulb not included)

harness A

battery stud

starter

pigtail B

looking into the open end of the connectors

R

S

wire E

S

N

to electric choke

to electronic distributor or coil. See pages 24 & 25 for typical ignition connection details.

to temperature sending unit

X

L

N

S

OR

J

OR

X

L

N

S

OR

J

OR

X

L

alternator regulator exciter wire (Required for some internally regulated systems. A resistor may be necessary in some instances. Not used for 1-wire alternator applications.)

pigtail G (if needed)

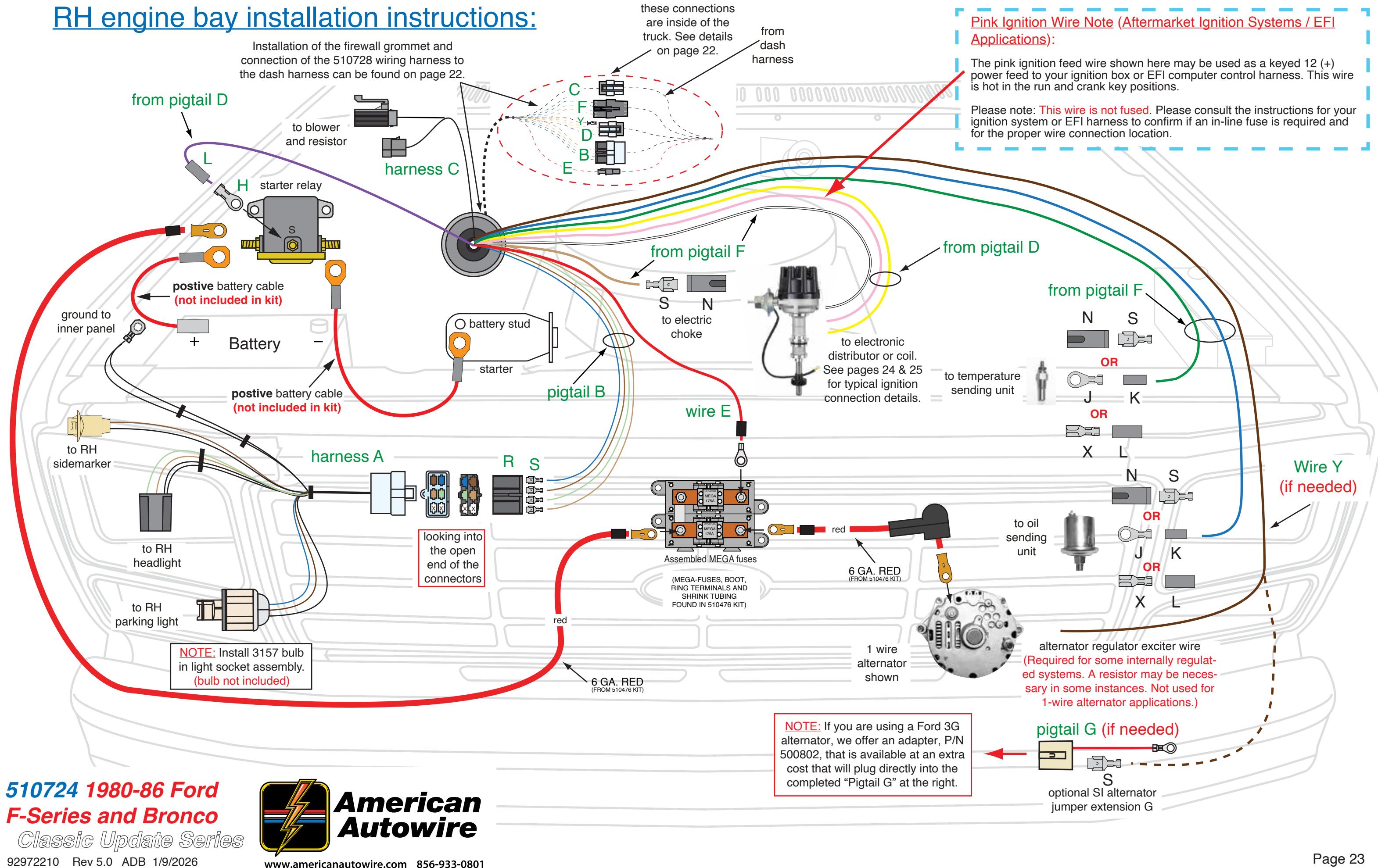
S

optional SI alternator jumper extension G

Pink Ignition Wire Note (Aftermarket Ignition Systems / EFI Applications):

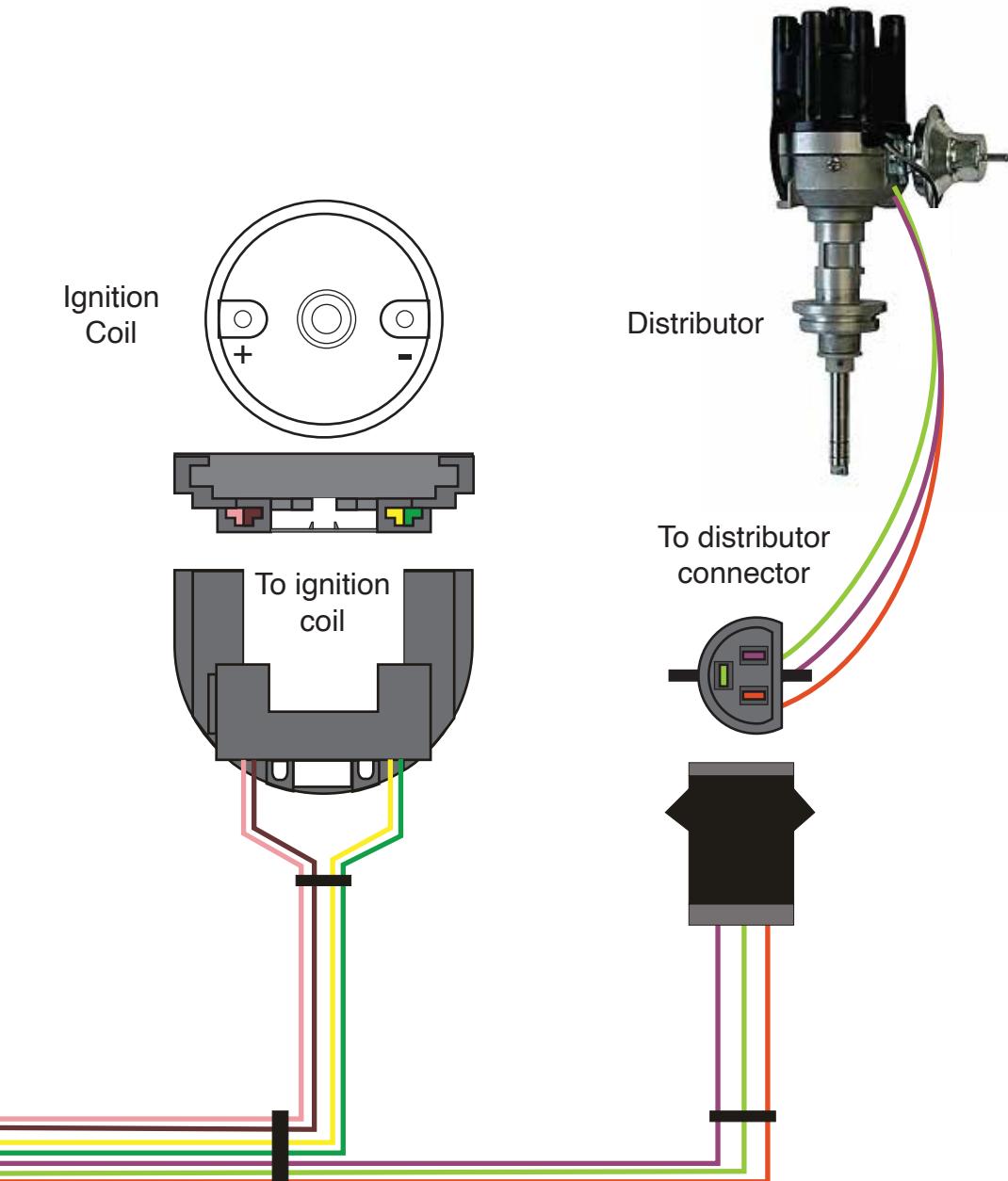
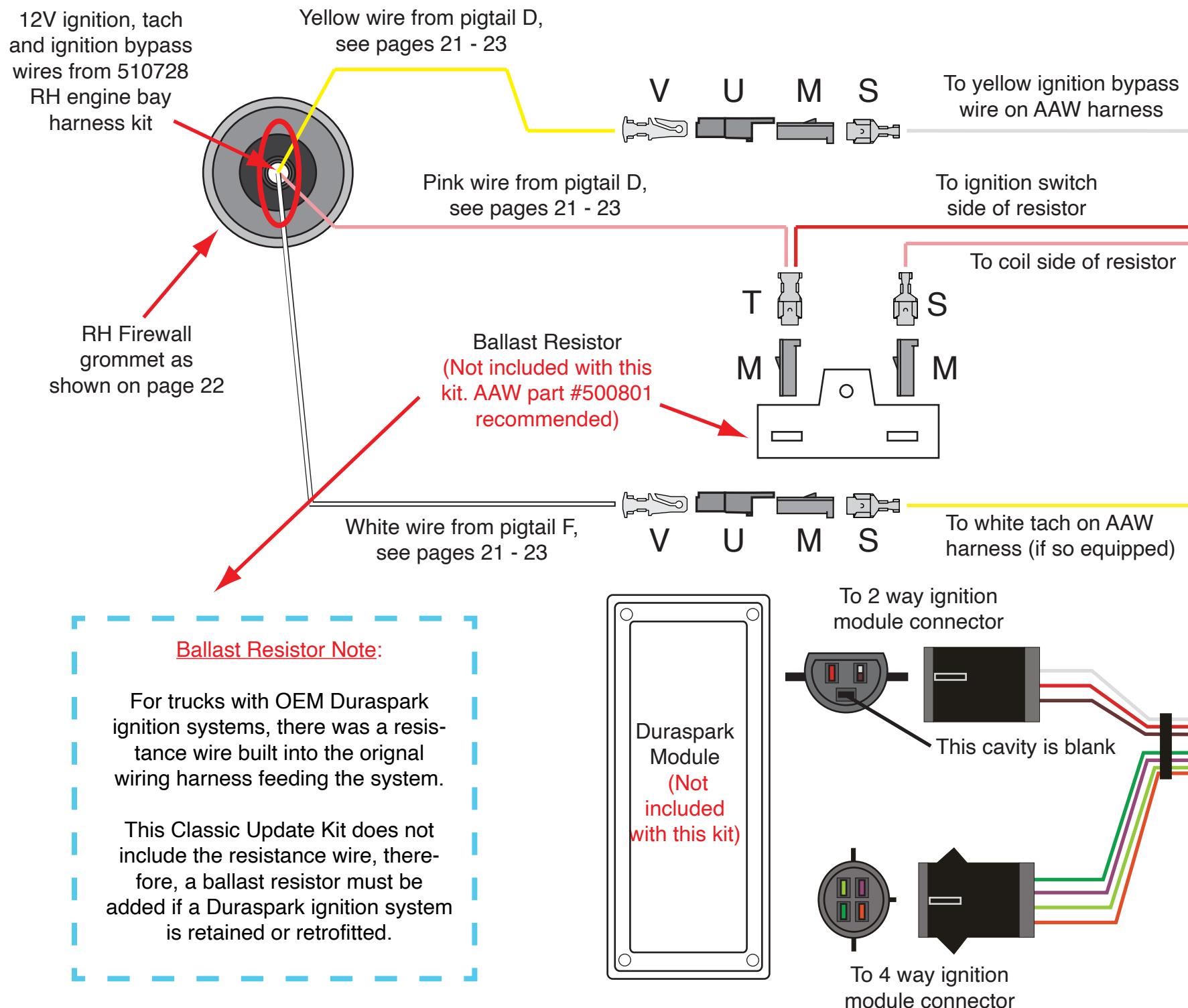
The pink ignition feed wire shown here may be used as a keyed 12 (+) power feed to your ignition box or EFI computer control harness. This wire is hot in the run and crank key positions.

Please note: This wire is not fused. Please consult the instructions for your ignition system or EFI harness to confirm if an in-line fuse is required and for the proper wire connection location.



Engine harness installation instructions:

Generic Ford Duraspark Ignition system wiring:



Typical Ford Duraspark Harness shown here for reference only, Harness not included.
(Duraspark Harness P/N 510824 available separately, if needed.)

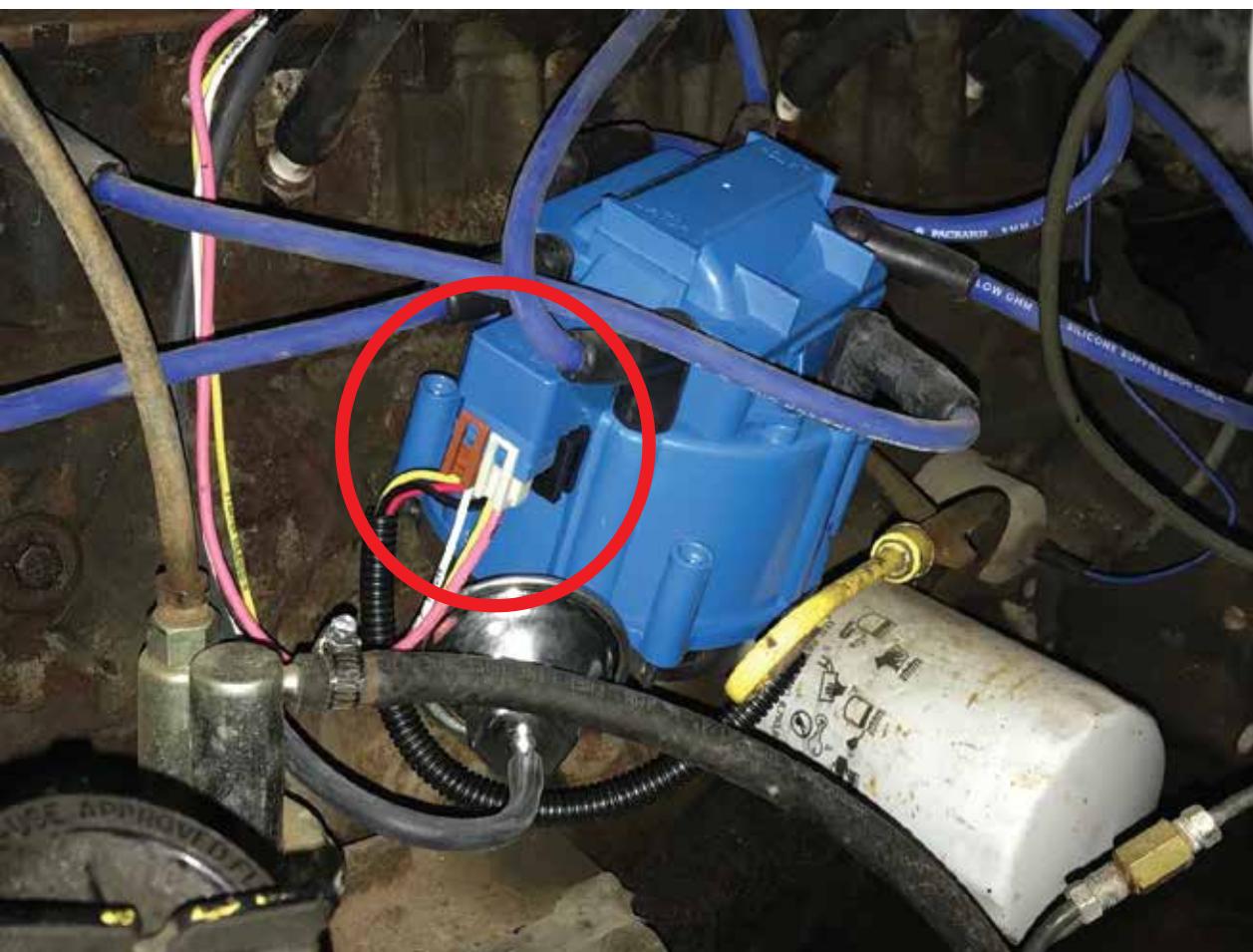
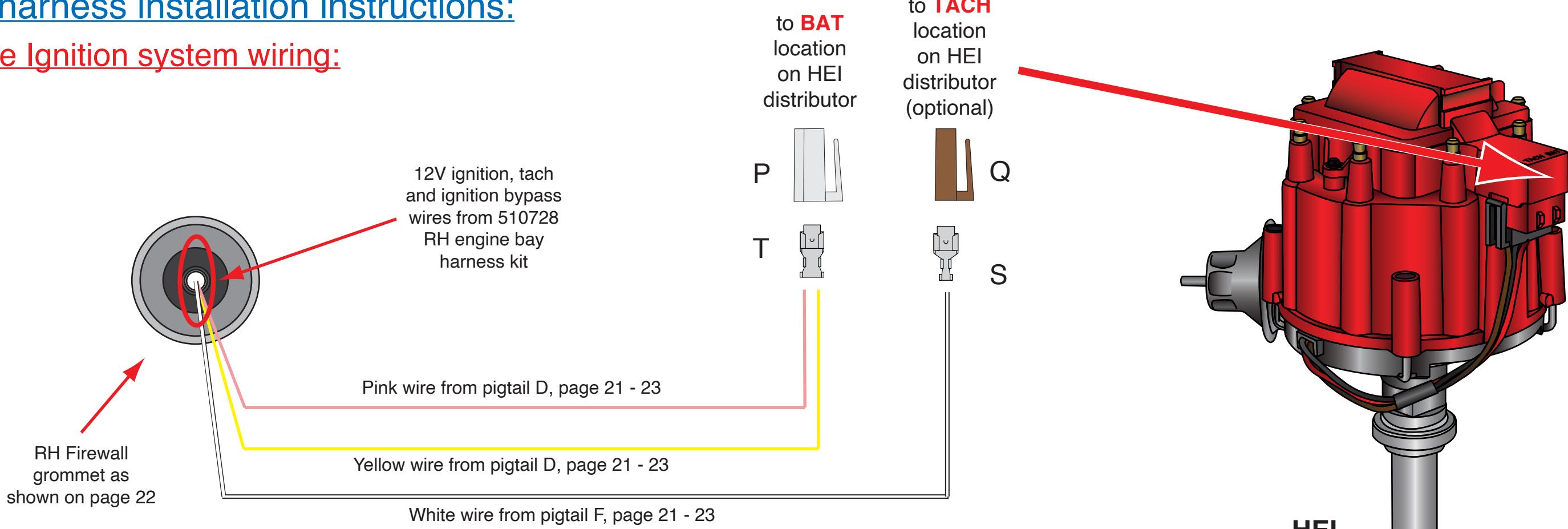


American Autowire 510724 1980-86 Ford F-Series and Bronco Classic Update Series

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Engine harness installation instructions:

HEI Type Ignition system wiring:



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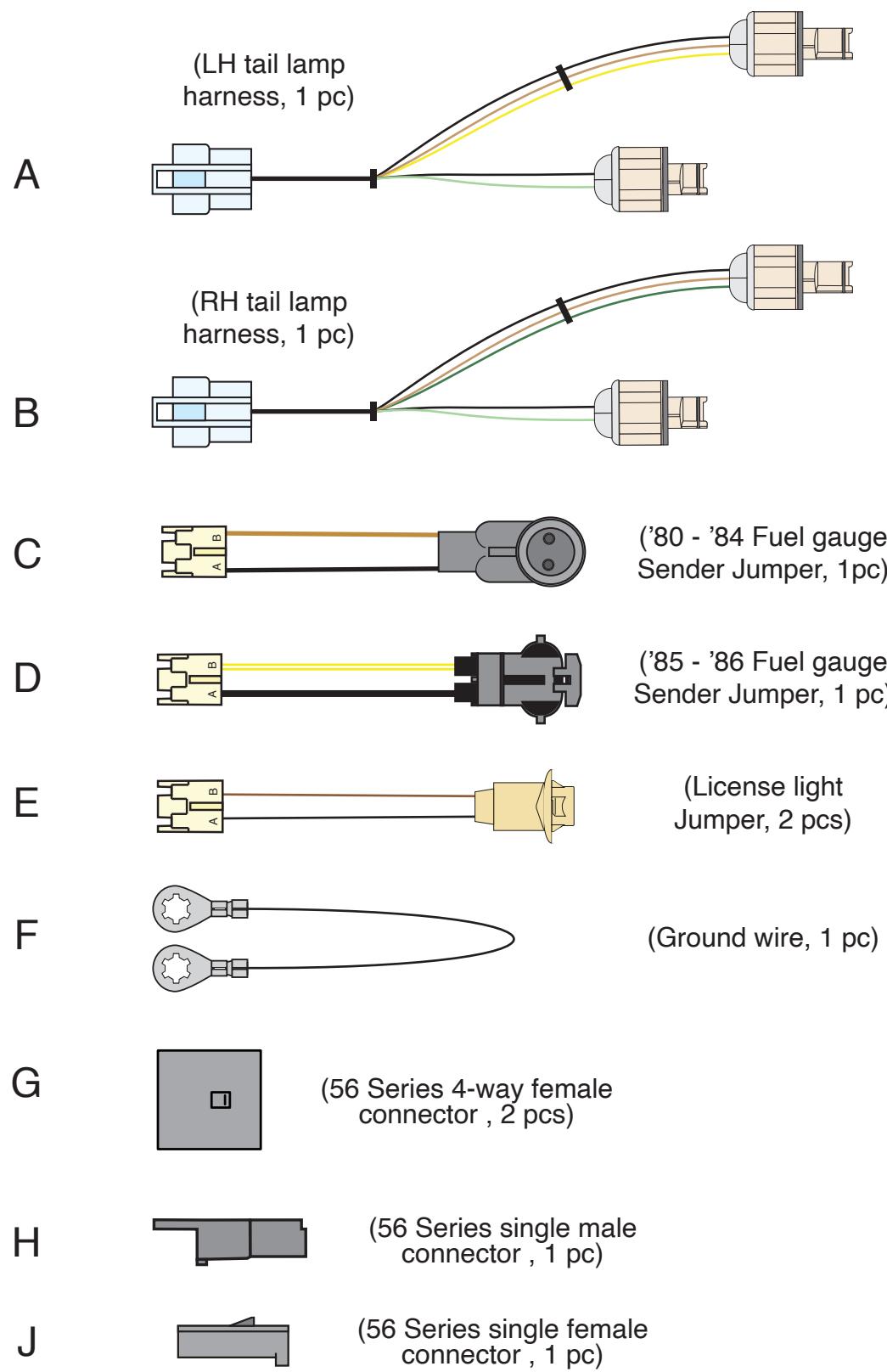
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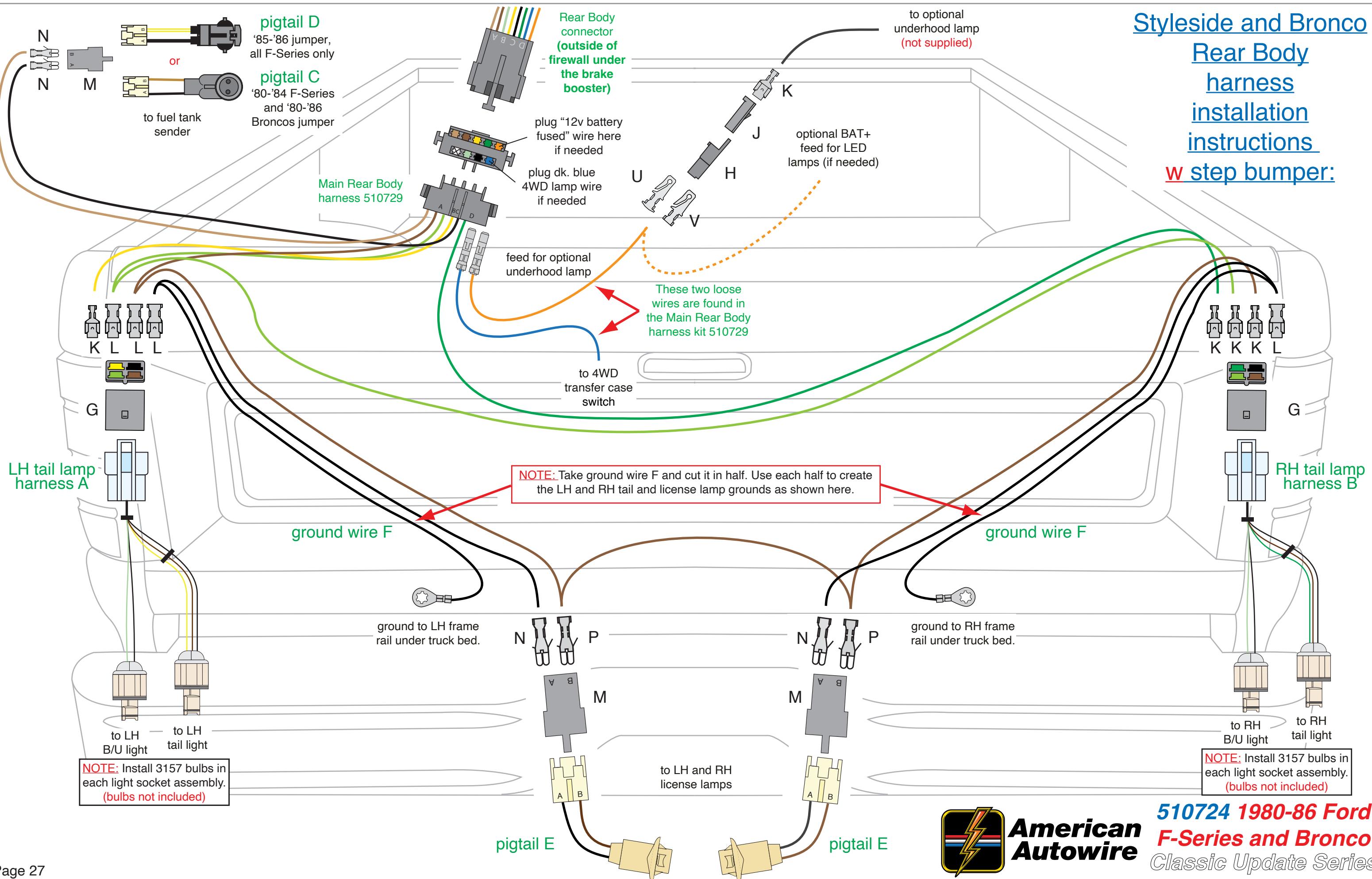
510729 Rear Body harness installation instructions:

Below are the supplied terminals, connector bodies and assorted components included in the 510729 Rear Body Harness and Loose Piece bags. These will be used to complete your Rear Body Harness exterior and interior connections as shown on pages 27 - 33, and are referred by the letters and descriptions below from this point forward.

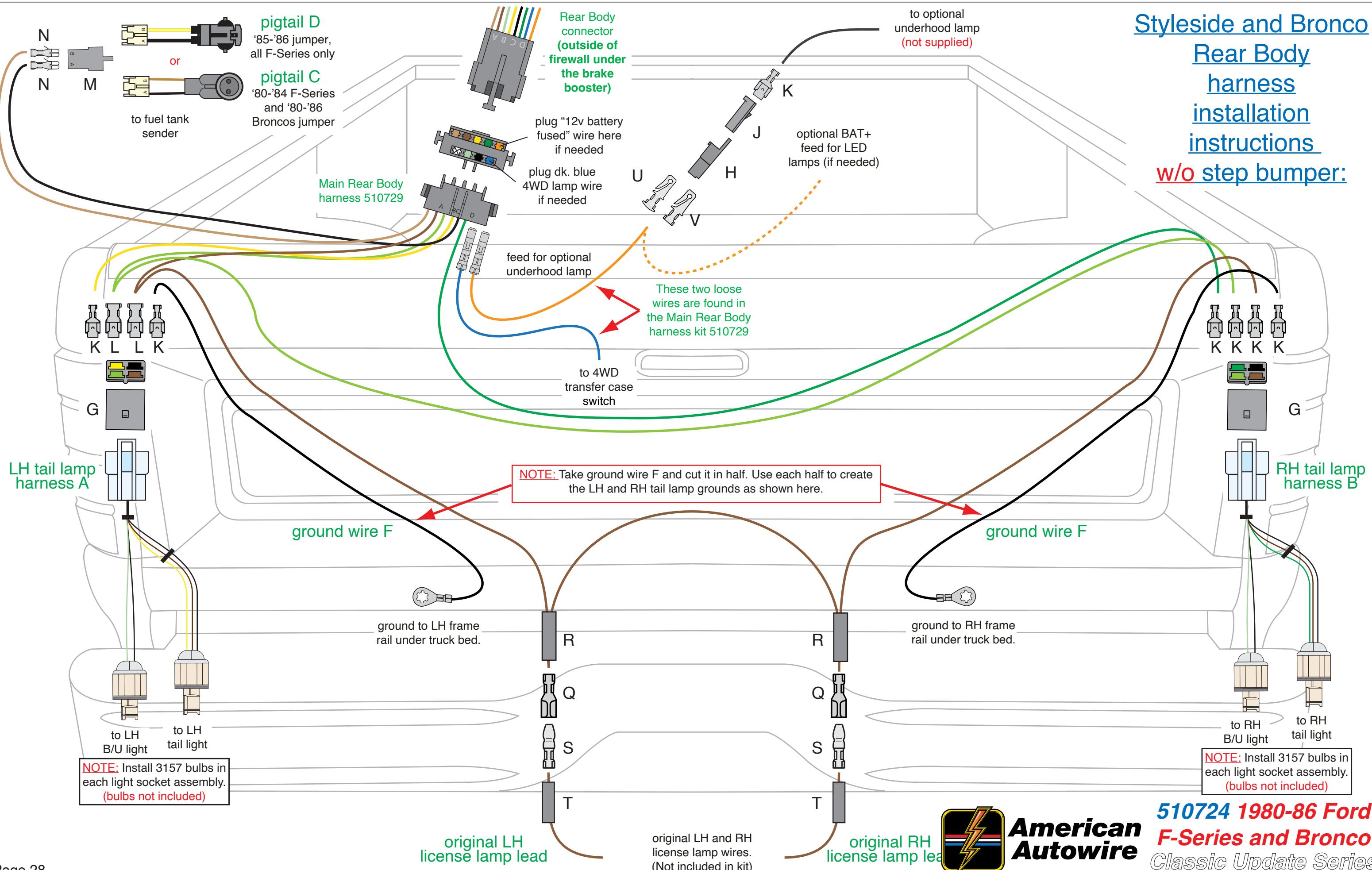


| | | |
|----------|--|--|
| K | | (56 Series single female terminal, 10 pcs) |
| L | | (56 Series double female terminal, 6 pcs) |
| M | | (Pack-Con 2-way female connector, 3 pcs) |
| N | | (Pack-Con single female terminal, 7 pcs) |
| P | | (Pack-Con double female terminal, 4 pcs) |
| Q | | (female pin terminal, 8 pcs) |
| R | | (large rubber sleeve, 8 pcs) |
| S | | (male bullet terminal, 8 pcs) |
| T | | (small rubber sleeve, 8 pcs) |
| U | | (56 Series single male terminal, 12 pcs) |
| V | | (56 Series double male terminal, 2 pcs) |
| W | | (Bronco rear courtesy light connector, 1 pc) |
| X | | (Standard Ford box terminal, 5 pcs) |
| Y | | (56 Series 4-way male connector, 2 pcs) |

Styleside and Bronco
Rear Body
harness
installation
instructions
w step bumper:



Styleside and Bronco
Rear Body
harness
installation
instructions
w/o step bumper:



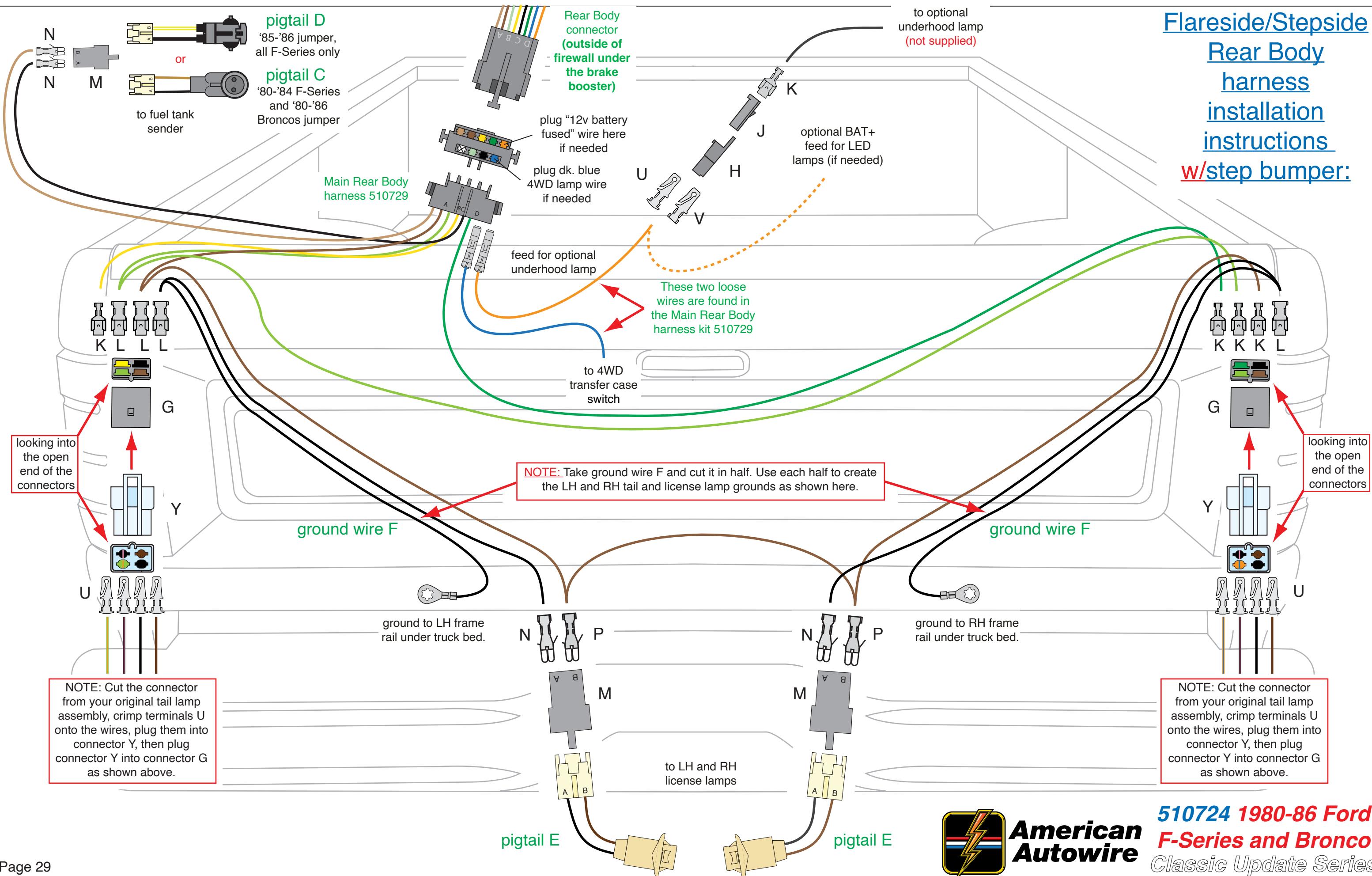
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**510724 1980-86 Ford
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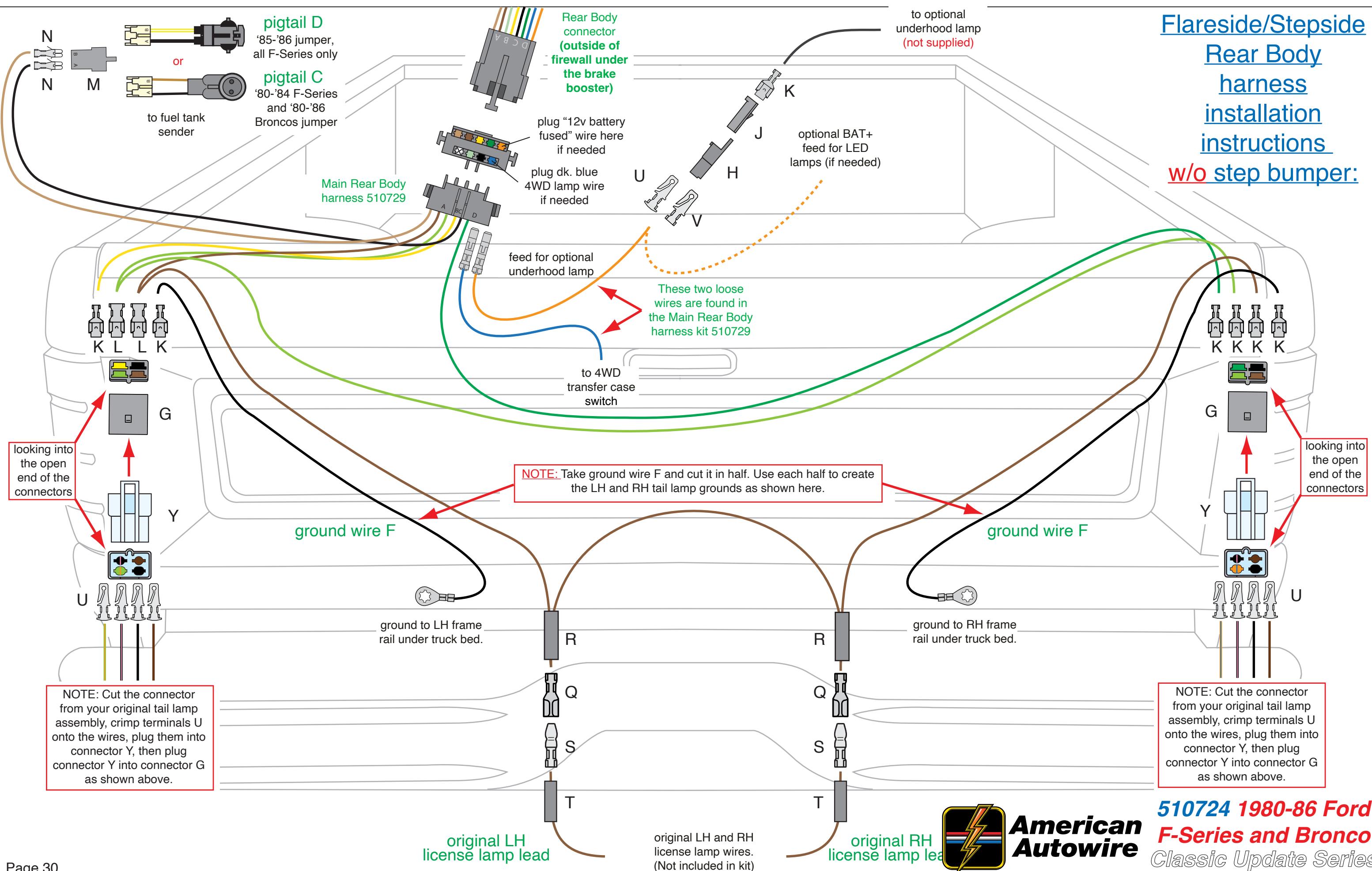
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Flareside/Stepside Rear Body harness installation instructions w/step bumper:



Flareside/Stepside
Rear Body
harness
installation
instructions
w/o step bumper:



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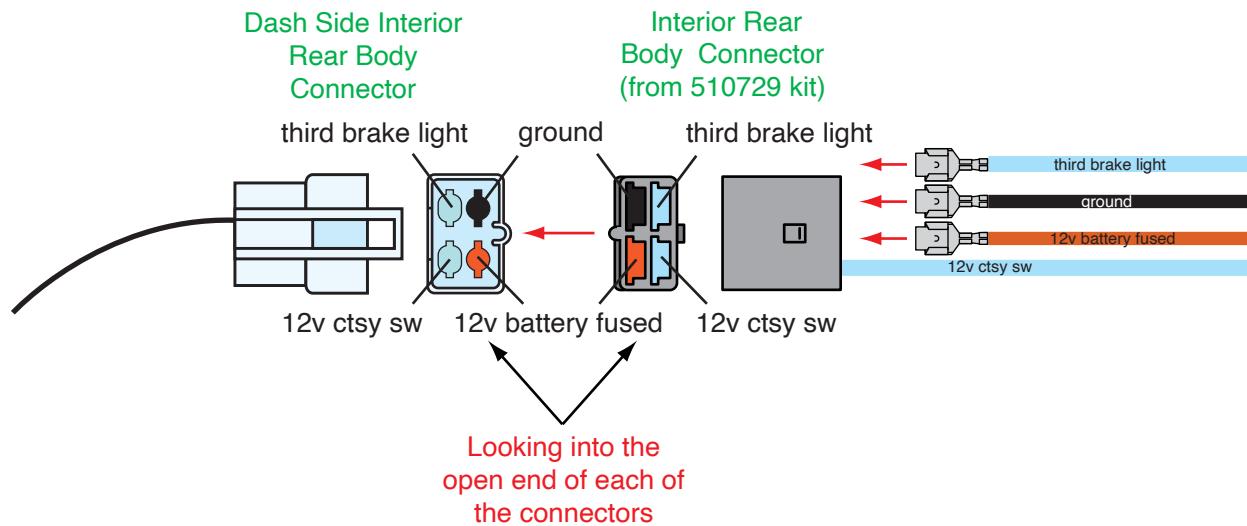
**Use this page for all F-Series Trucks and all Broncos
without a rear compartment courtesy light.**

Installation Instructions:

NOTE: The factory dome and/or map light assemblies are self grounding units that do not require the use of a separate ground wire. You MUST re-use your original (or a replacement) dome/map light assembly and its lead wires as they use a very unique terminal that is part of the assembly. We have provided terminals and sleeves "Q, R, S and T" to make these connections.

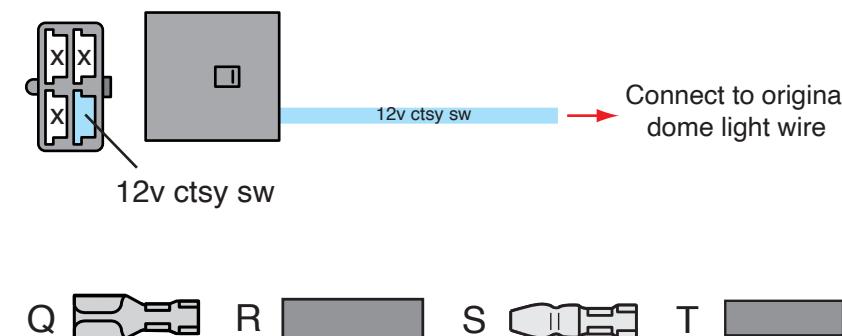
1. The interior rear body harness can be found in the 510729 Rear Body Harness kit. It consists of a single lt. blue wire (12v ctsy sw) plugged into a 4-way black connector along with 3 loose coiled wires (orange 12v battery fused, light blue "third brake", black "ground"). All trucks utilized an overhead dome light. If your truck has the optional map light, or you are adding an aftermarket third brake light, you will need to install the optional coiled wires into the empty cavities of the 4-way connector as shown below on this page.
2. The interior rear body harness connector will plug onto the dash harness in the LH kick panel area (see page 9, photo 14) of your truck. Route the wires along the LH rocker sill area to the LH rear cab corner.
3. Make your connections between the new harness and the original dome/map lamp assembly down in that area.

**Main connection
to dash harness**

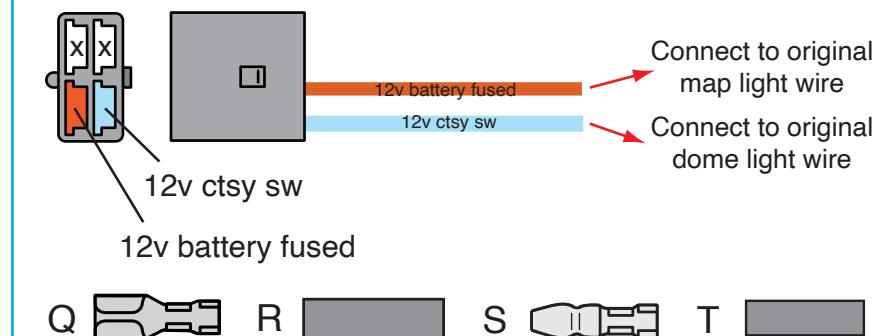


Interior Rear Body harness
installation instructions:
(dome, map, & 3rd brake light)

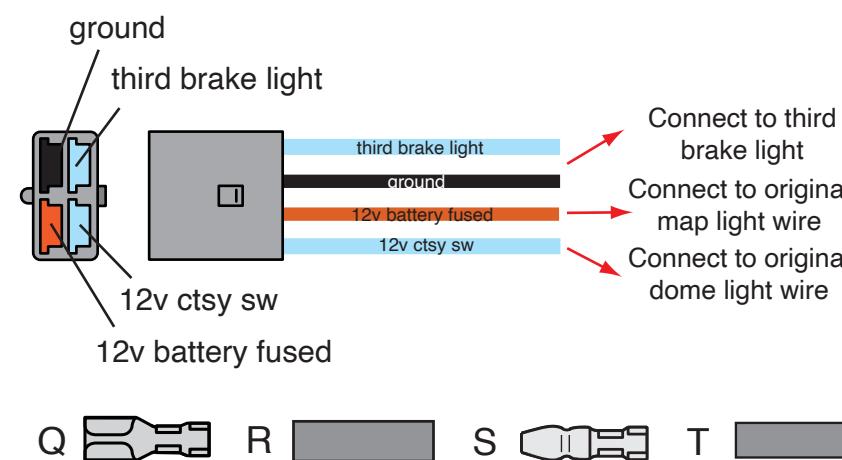
**Dome light
only application**



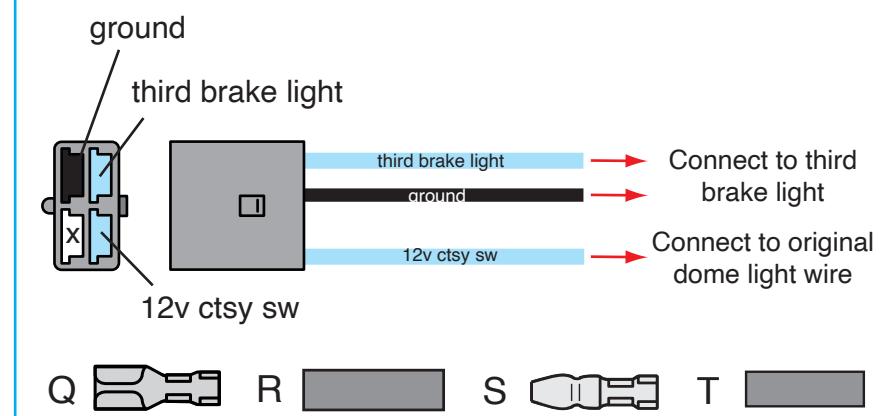
**Dome/map
light application**



**Dome/map, third
brake light
application**



**Dome/third
brake light
application**



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Use the next two pages for all Broncos with a rear compartment courtesy light.

Installation Instructions:

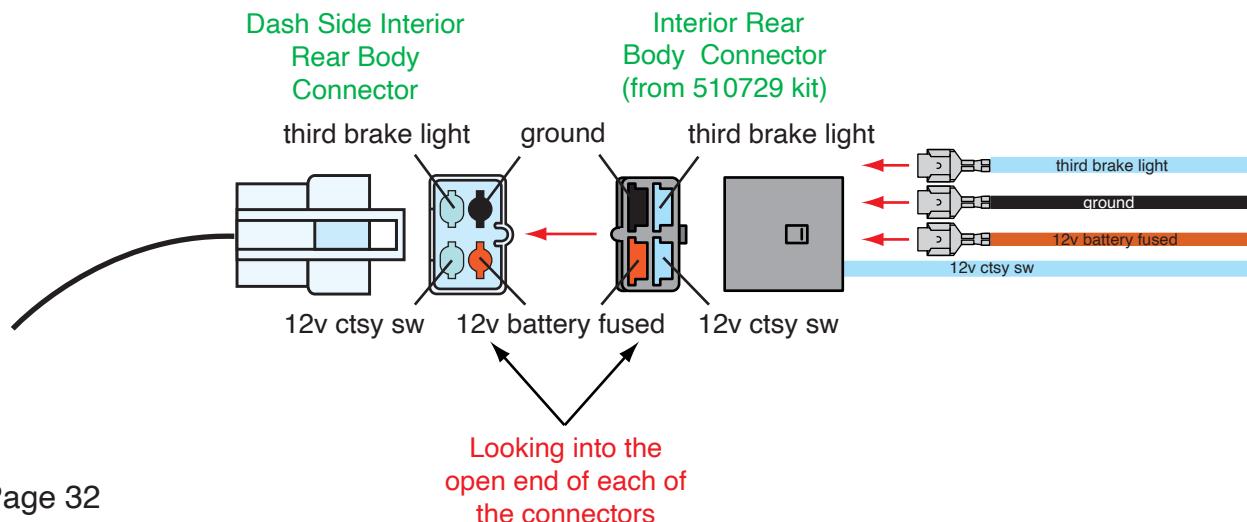
NOTE: The factory dome and/or map light assemblies are self grounding units that do not require the use of a separate ground wire. You MUST re-use your original (or a replacement) dome/map light assembly and its lead wires as they use a very unique terminal that is part of the assembly. We have provided terminals and sleeves "Q, R, S and T" to make these connections.

1. The interior rear body harness can be found in the 510729 Rear Body Harness kit. It consists of a single lt. blue wire (12v ctsy sw) plugged into a 4-way black connector along with 3 loose coiled wires (orange 12v battery fused, light blue "third brake", black "ground"). In this application, all trucks utilized an overhead dome light along with the rear courtesy light, so you will need to install the orange and black wires. If you are adding an aftermarket third brake light, you will need to install the optional light blue wire as well. All wires will plug into the empty cavities of the 4-way connector as shown below on this page.

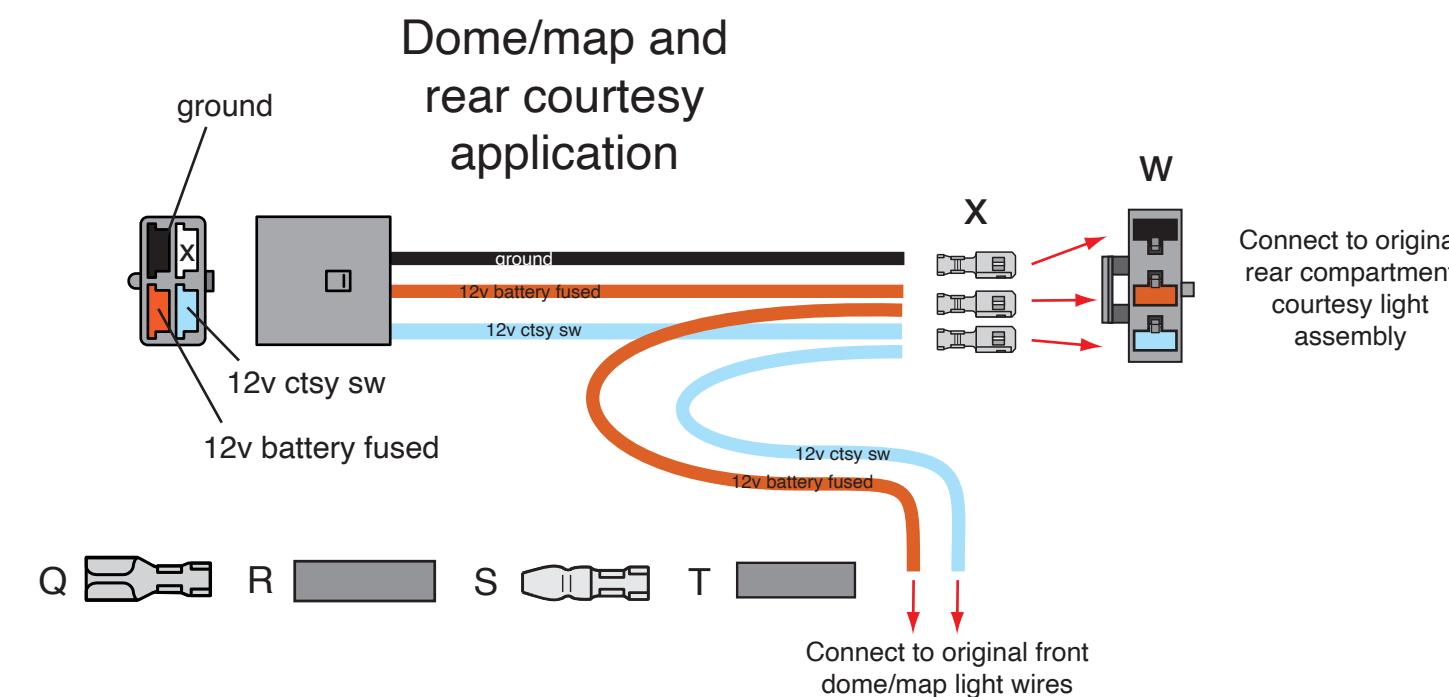
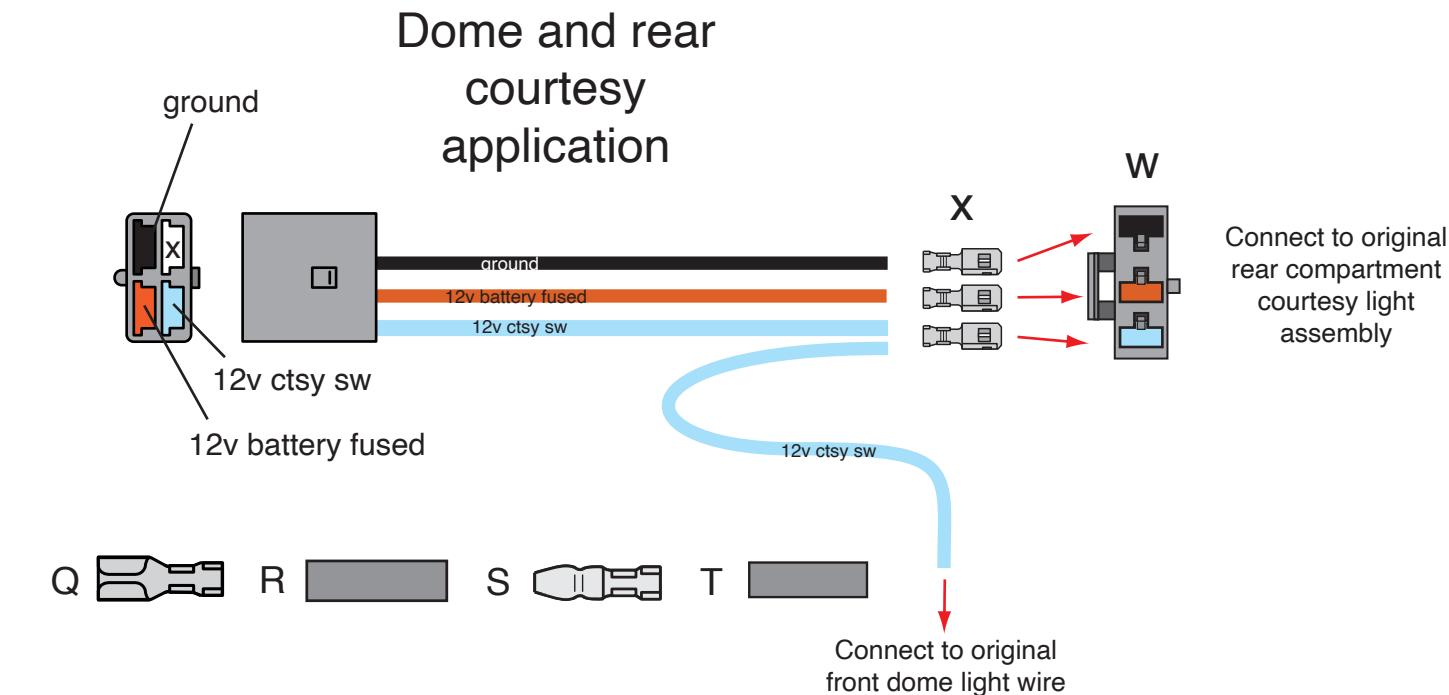
2. The interior rear body harness connector will plug onto the dash harness in the LH kick panel area (see page 9, photo 14) of your truck. Route the wires along the LH rocker sill area back into the rear cargo area.

3. You will make the connections to the original rear courtesy light first. Choose the proper assembly instructions for your application from pages 32 and 33. Route the wires to your rear courtesy light and cut them. In several instances, you will use the cut off portion to double back to the dome/map or third brake lights. Crimp terminals X onto the wires, plug the completed wires into connector W, then plug the completed connector W into the rear courtesy lamp assembly.

4. Next, take any wires that you doubled off of the rear courtesy connections, bring them over to the overhead dome light (orange 12v battery fused and lt. blue 12v ctsy sw) or optional third brake light (lt. blue third brake light and black ground) and connect them as necessary as shown on pages 32 or 33.



Interior Rear Body harness installation instructions: (dome, map, & 3rd brake light)



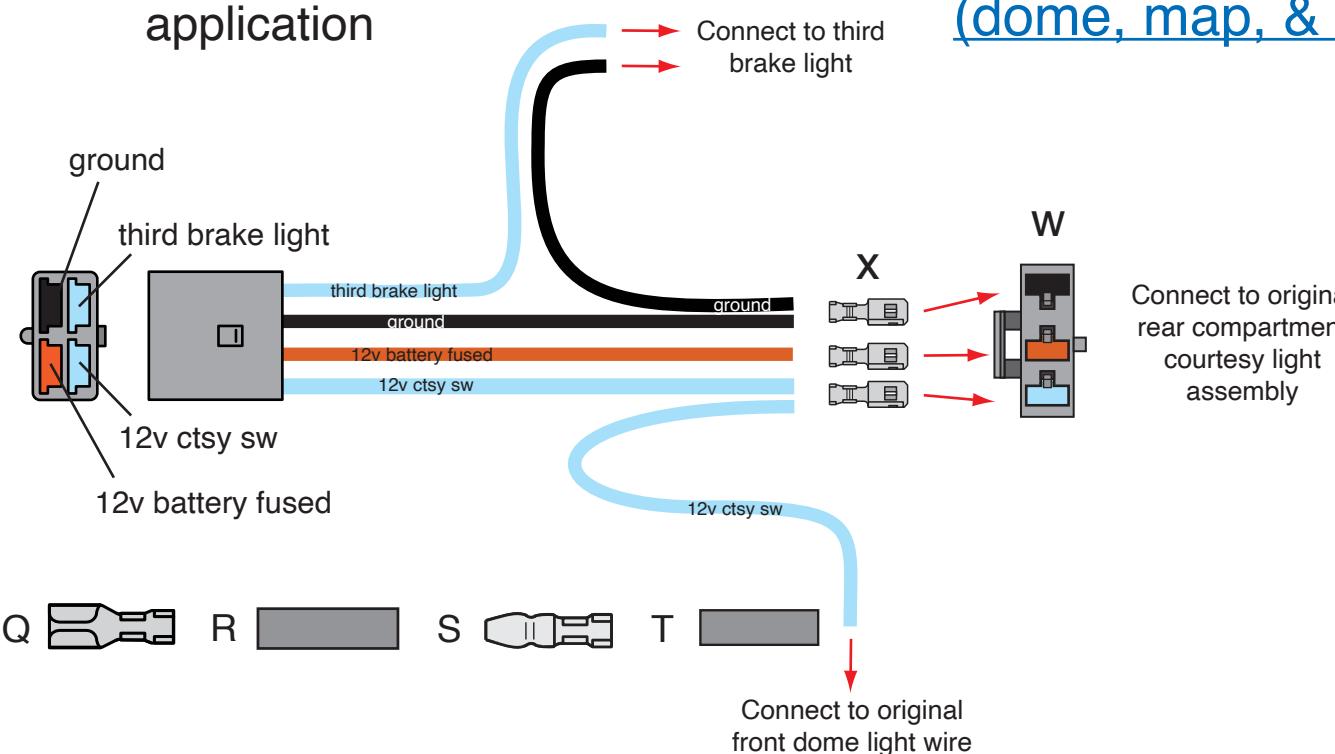
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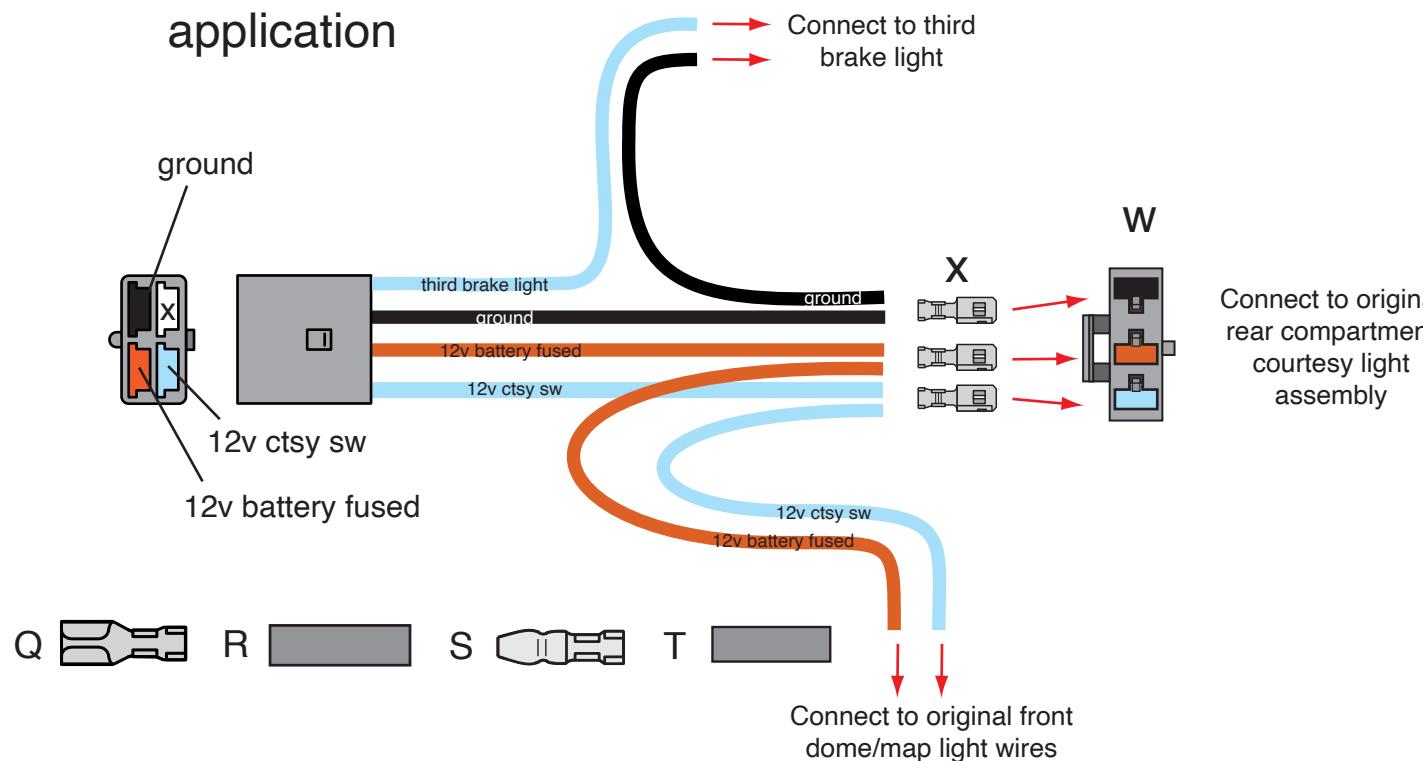
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Dome, rear courtesy, and third brake light application



Dome/map, rear courtesy, and third brake light application



Interior Rear Body harness installation instructions: (dome, map, & 3rd brake light)

STEP 8: 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:

- Battery is grounded to the ENGINE BLOCK.
- Battery is grounded to the frame.
- Engine block is grounded to the frame.
- Body is grounded to the frame.

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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