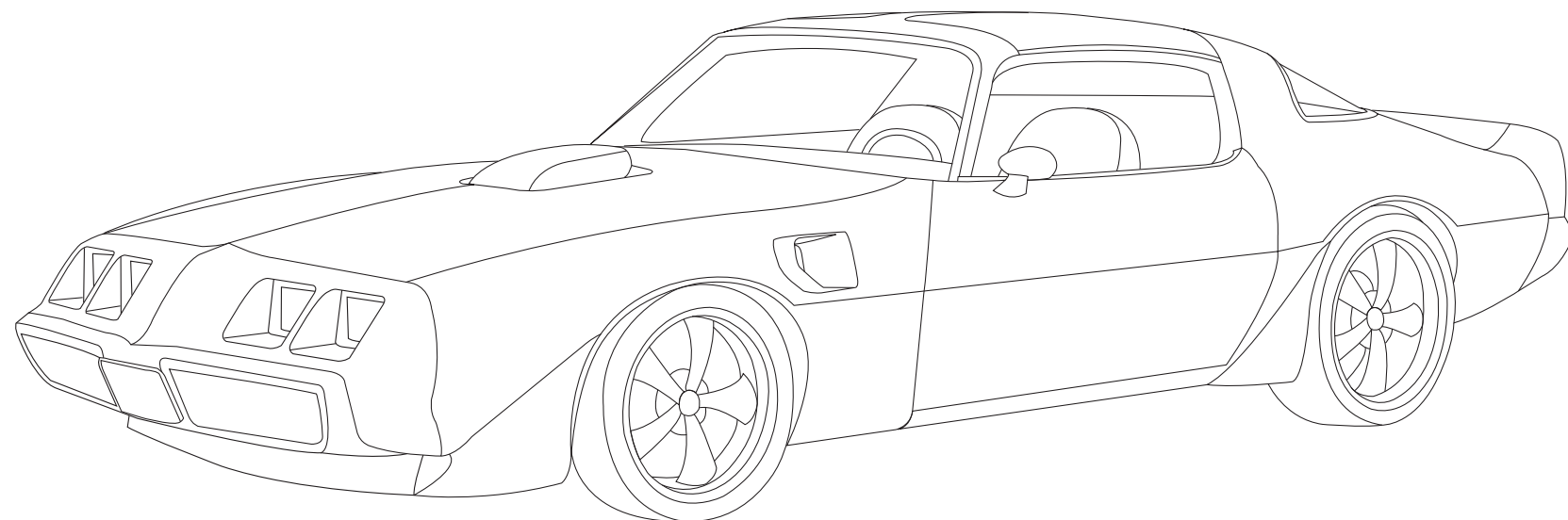




**WARNING:**

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 new upgraded AAW wiring system should typically be used in a MODIFIED application only.
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. For factory A/C Harnesses, call American Autowire for your application.
3. This kit supports 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, low amperage alternators is seriously discouraged as they cannot handle the higher current requirements of most updated ignition systems, electric fans, aftermarket A/C systems, stereo systems, air ride suspensions, and other power hungry accessories that will ultimately create performance issues within the system.
4. For 1979 applications, pulse wipers will require use of the original pulse wiring harness or the addition of part number 510934
5. 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 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 infused, 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.
7. If your car has the GM on-board C4 computer system that was used for California emissions in 1980, you will need to reuse that harness as this new kit does not include any of the wiring for that system.



## 510689 - Classic Update Series Kit 1979-80 Firebird

This kit contains the following components:

<u>Bag</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
	500332	Headlight Switch	1
	500707	Fuse, Relay, and Flasher kit	1
	500708	Courtesy Lamp Kit	1
	500919	Practice Terminal Crimping Set	1
G	510684	Dash Harness kit	1
H	510685	Instrument Cluster wiring kit	1
J	510686	Engine Wiring Kit	1
L	510687	Front Light Wiring kit	1
M	510690	Rear Body Wiring kit	1
N	510702	Parts kit	1
Z	510476	Alternator and Main Power Conn kit	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.

# 1979-80 Firebird

## Classic Update Series

# 510689



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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.



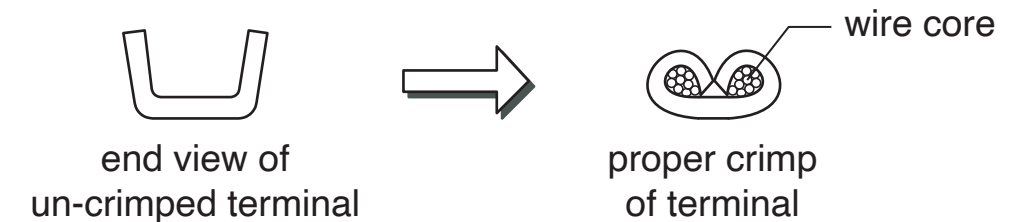
AAW offers a great terminal crimping video entitled "Proper Crimping Video". It can be viewed by visiting YouTube.

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

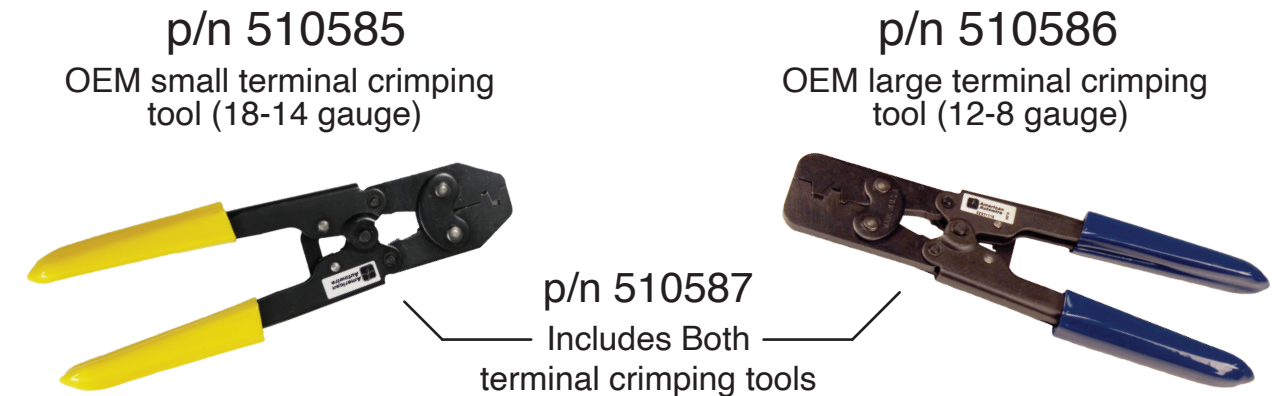
Youtube Channel:  
[www.youtube.com/user/WiringHarness](http://www.youtube.com/user/WiringHarness)



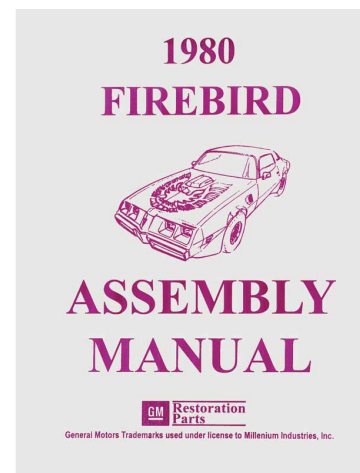
The terminals that we supply in our kits, utilize what is known as an F crimp. The F crimp, in a cross section, will look like the illustration below, when done correctly.



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 1979-80 Firebird:



Factory Assembly Manuals  
 1980 p/n 36357



### STEP 1: DISCONNECT YOUR BATTERY:

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

**1979-80 Firebird**

Classic Update Series

**510689** 92971802 Rev 7.0 10/27/2023



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:

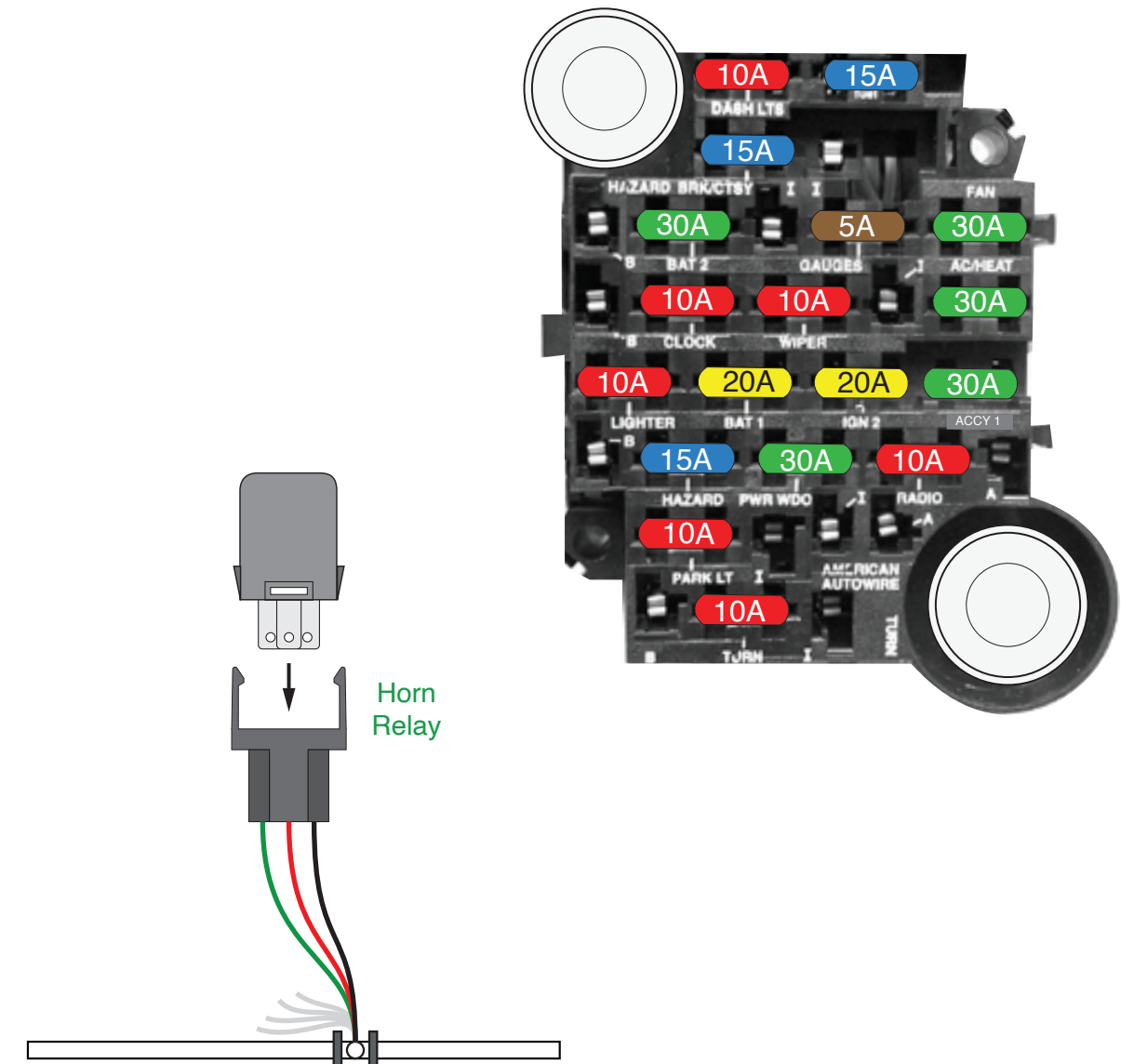
#### Bags: Pages: Sections:

G	4 - 9	Dash Harness - This is the main harness in the kit and contains: <ul style="list-style-type: none"><li>- Starter solenoid connections.</li><li>- Wiper motor connections</li><li>- Brake light switch connection.</li><li>- Neutral safety switch connection.</li></ul>
H	10 - 12	Gauge Cluster Harness - This Harness contains: <ul style="list-style-type: none"><li>- Gauge connections for aftermarket and factory gauges.</li></ul>
M	13 - 15	Rear Body Harness - This Harness contains: <ul style="list-style-type: none"><li>- Tail light, turn signal, reverse light, and running light connections.</li><li>- Fuel pump connections.</li></ul>
L	16 - 17	Front Light Harness - This Harness contains: <ul style="list-style-type: none"><li>- Headlight, turn signal, running light connections.</li><li>- Windshield washer connection.</li><li>- Electric fan relay trigger.</li></ul>
J	18 - 20	Engine Harness - This Harness contains: <ul style="list-style-type: none"><li>- Temperature, oil pressure, tachometer wiring.</li><li>- Ignition system / ECU power.</li><li>- Alternator connections.</li><li>- Brake fluid level wiring.</li></ul>



## 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, Hazard Flasher and Turn Flasher into the Fuse Block (see detailed picture below) and the Horn Relay into this harness (see detailed picture below).



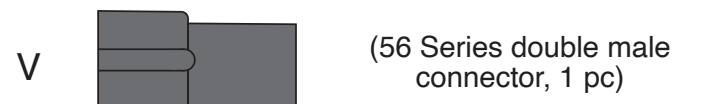
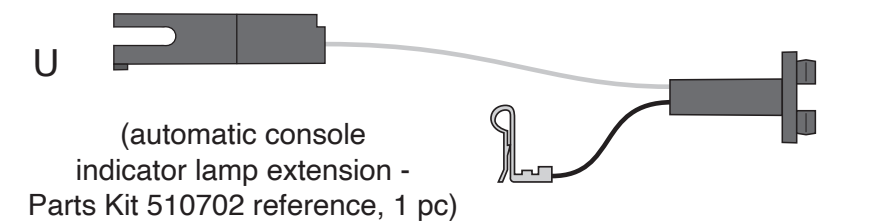
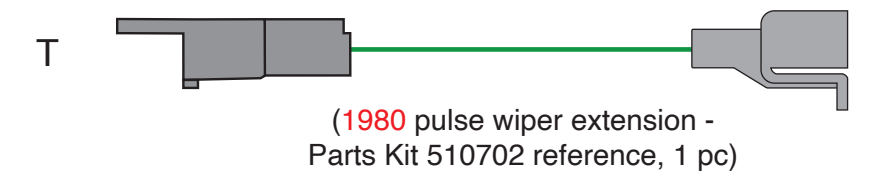
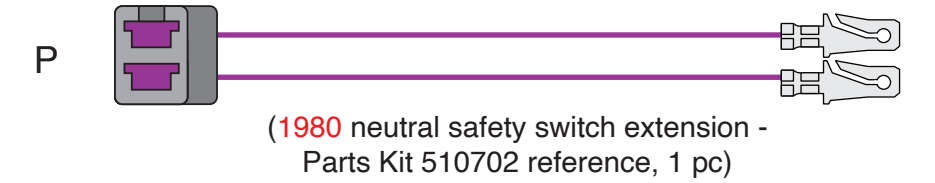
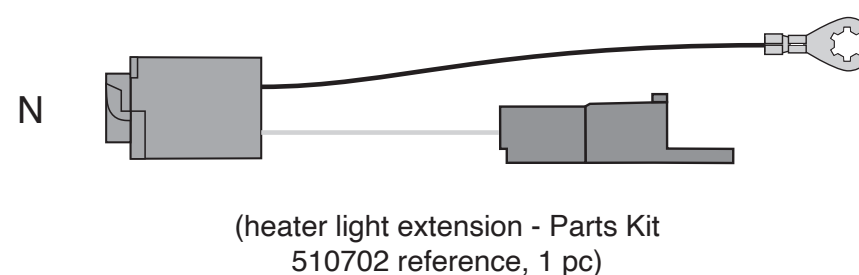
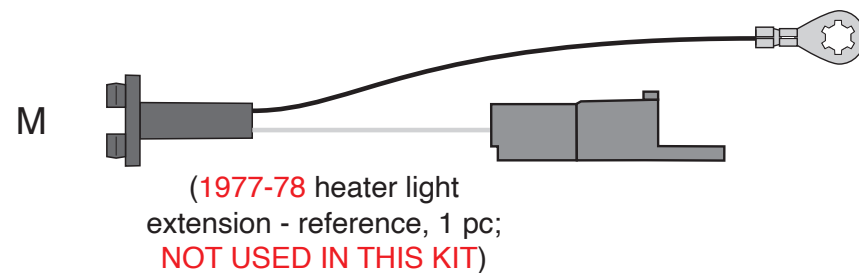
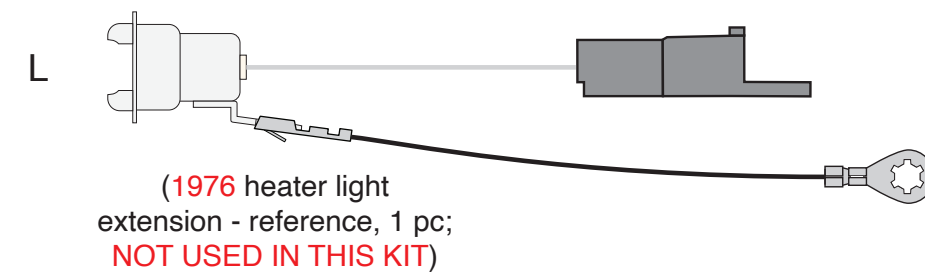
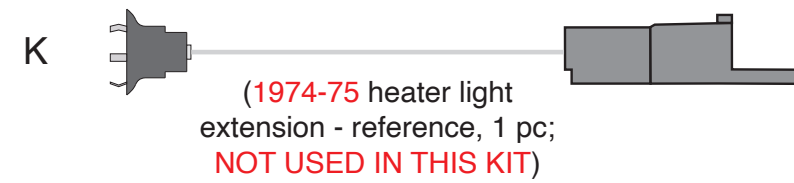
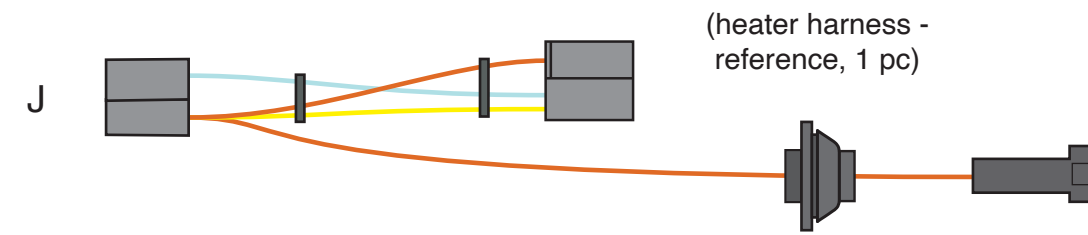
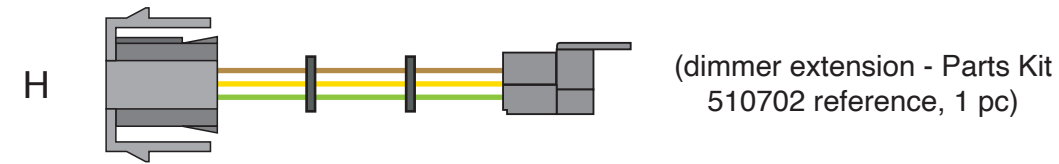
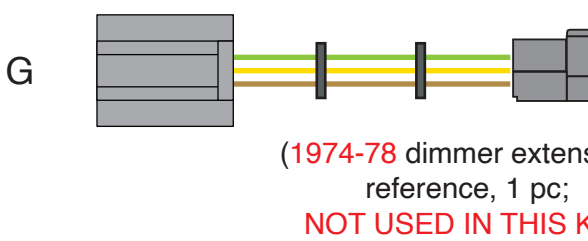
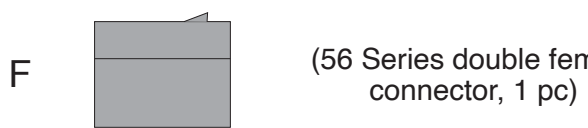
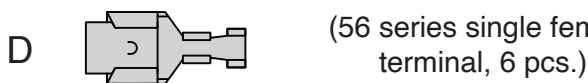
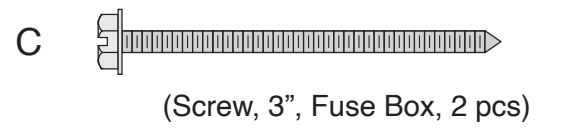
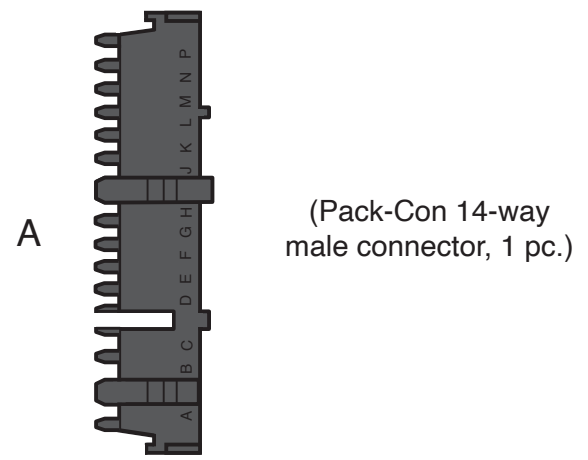
1979-80 Firebird

Classic Update Series

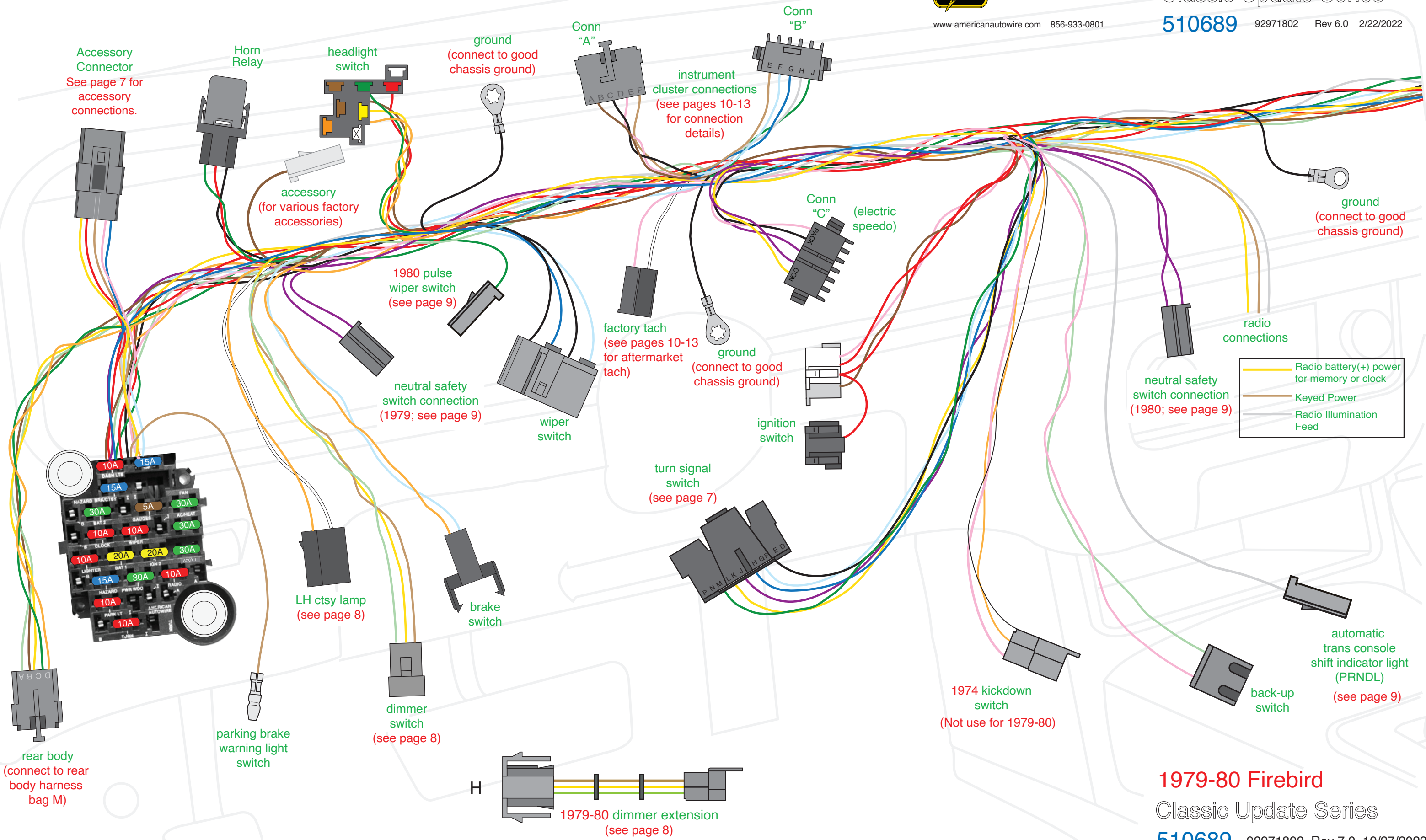
510689 92971802 Rev 7.0 10/27/2023

# Dash/Main harness installation instructions:

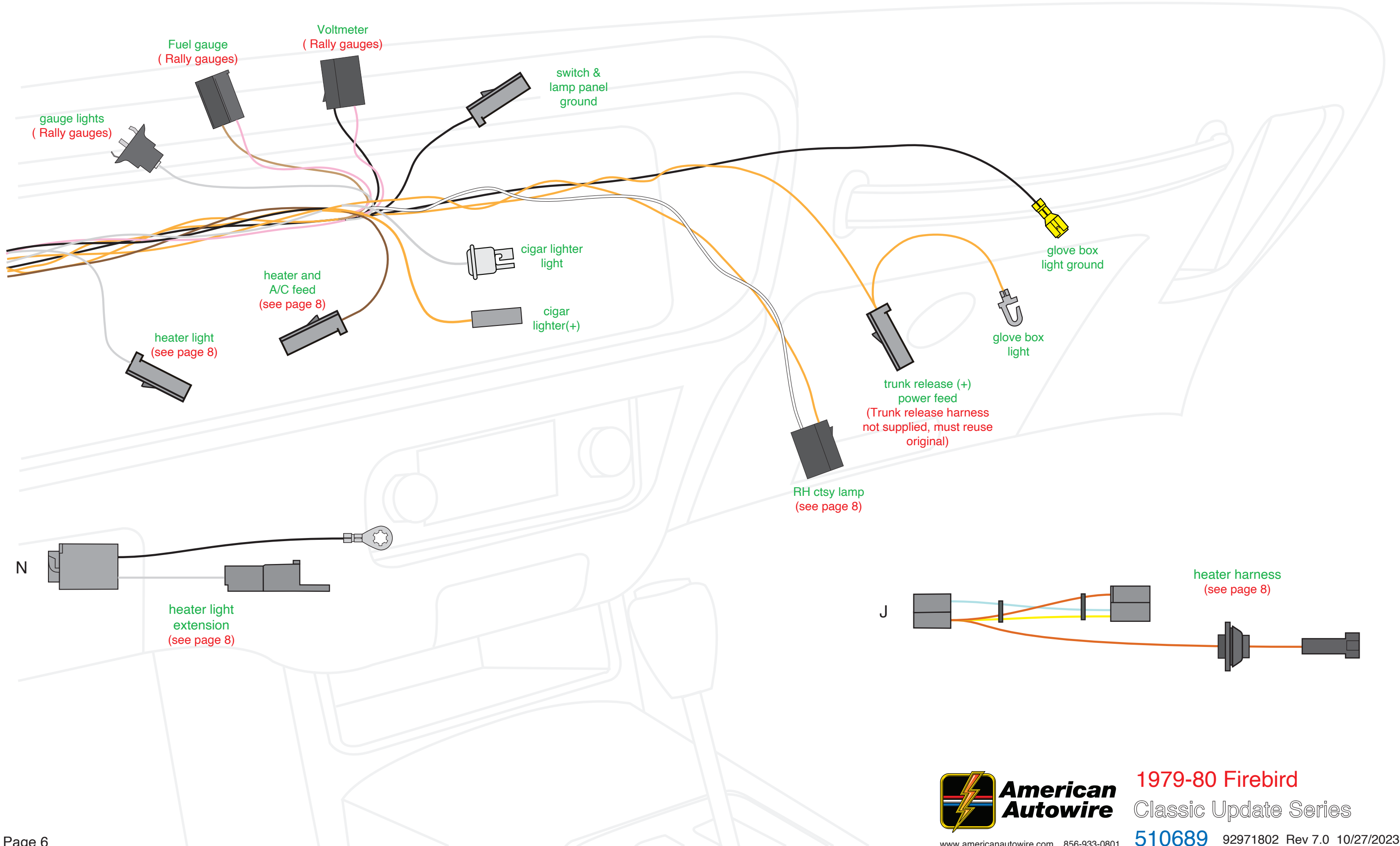
Shown below, are the supplied misc. terminals, plastic connector bodies, hardware, jumpers and extensions, included in the Dash/Main Harness, Parts Kit (510702) and Loose Piece bags, that will be used to complete your Dash/Main harness connections. They are itemized and referred to on this page, just as they are on the following pages of this Dash/Main instruction set.







<span style="color: yellow;">—</span>	Radio battery(+) power for memory or clock
<span style="color: brown;">—</span>	Keyed Power
<span style="color: grey;">—</span>	Radio Illumination Feed





# Dash/Main harness installation instructions:

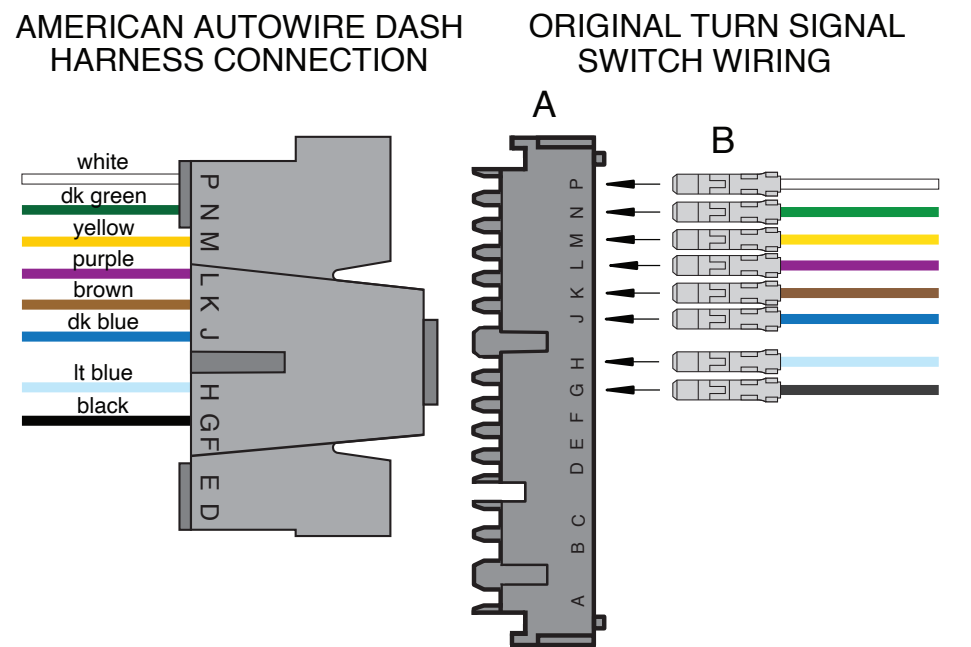
## “Table B”

AAW Turn Signal Switch wires to stock 1979-80  
Pontiac Firebird Turn Signal Switch

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

**Note:** 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 wires and plug them into connector “A” (see Parts Kit 92971783).

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.



**DIAGRAM ‘A’ - AAW Turn Signal Switch Wires to Stock 1979-80 Steering Columns**

### Accessory Connector

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

Wire Color	Fuse Block Marking	Fuse rating	Description
Tan	ACCY1	30A	Fused 12 volt ACCESSORY feed which (may also be used to feed power to another accessory circuit).
Dark Blue	FUEL	15A	Fused 12 volt IGNITION feed for fuel pump (may also be used to feed power to another ignition circuit).
Orange	BAT1	20A	Fused 12 volt BATTERY feed for power seats (may also be used to feed power to another battery circuit).
Pink	IGN1	20A	Fused 12 volt IGNITION feed which may be used to feed power to another ignition circuit.
Red	BAT	30A	Fused 12 volt BATTERY feed (may also be used to feed power to a battery circuit).
Yellow	PWO WDO	30A	Fused 12 volt ACCESSORY feed for power windows (may also be used to feed power to another accessory circuit).

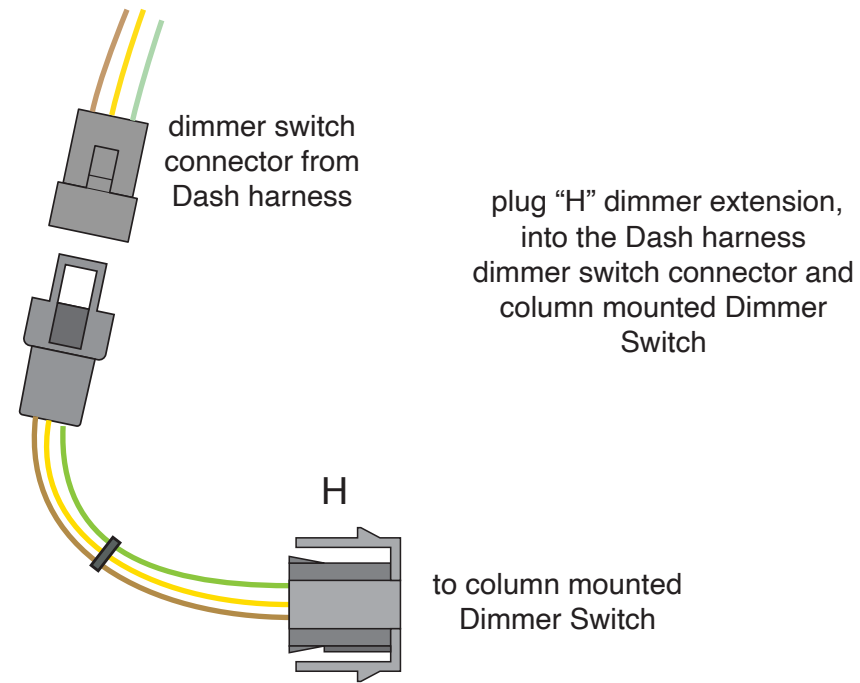


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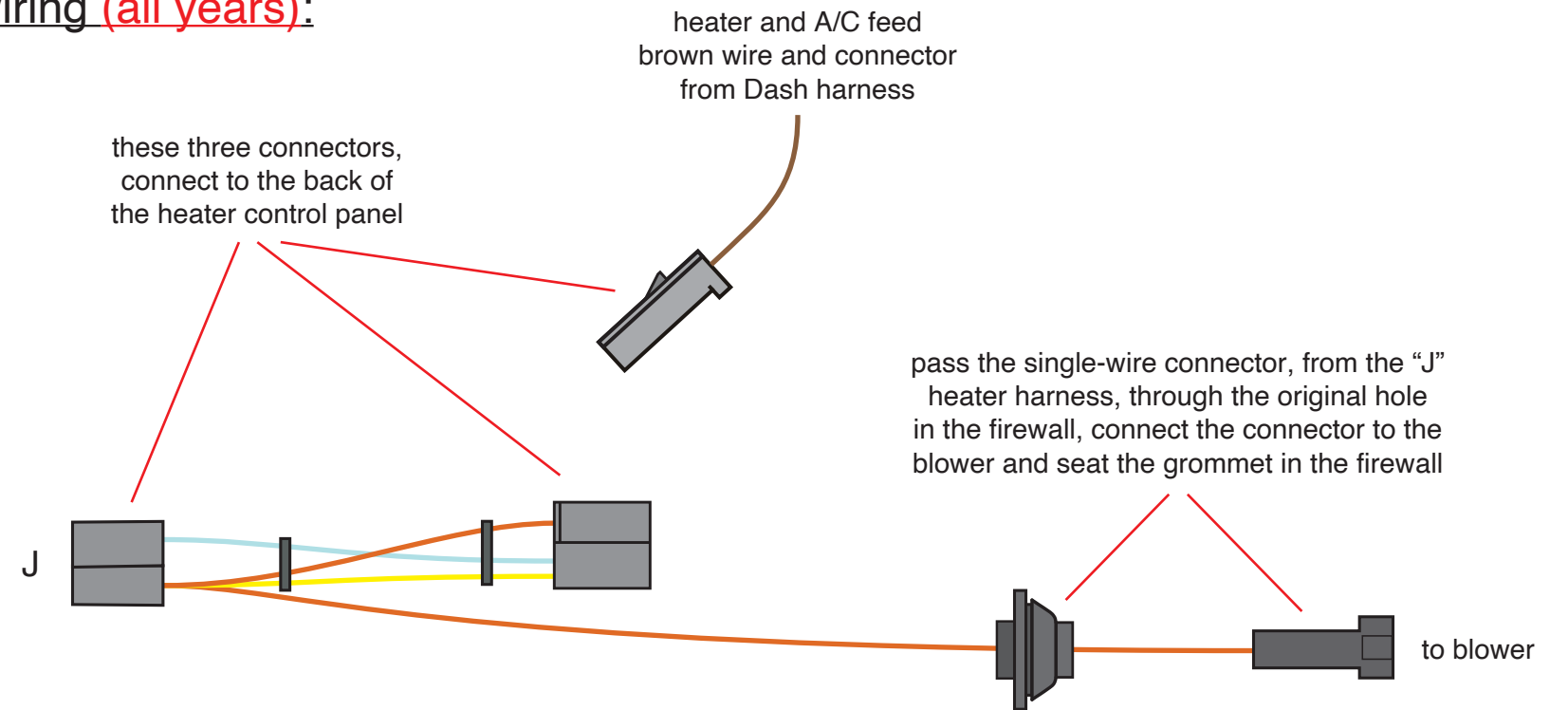
1979-80 Firebird  
Classic Update Series  
510689 92971802 Rev 7.0 10/27/2023

# Dash/Main harness installation instructions:

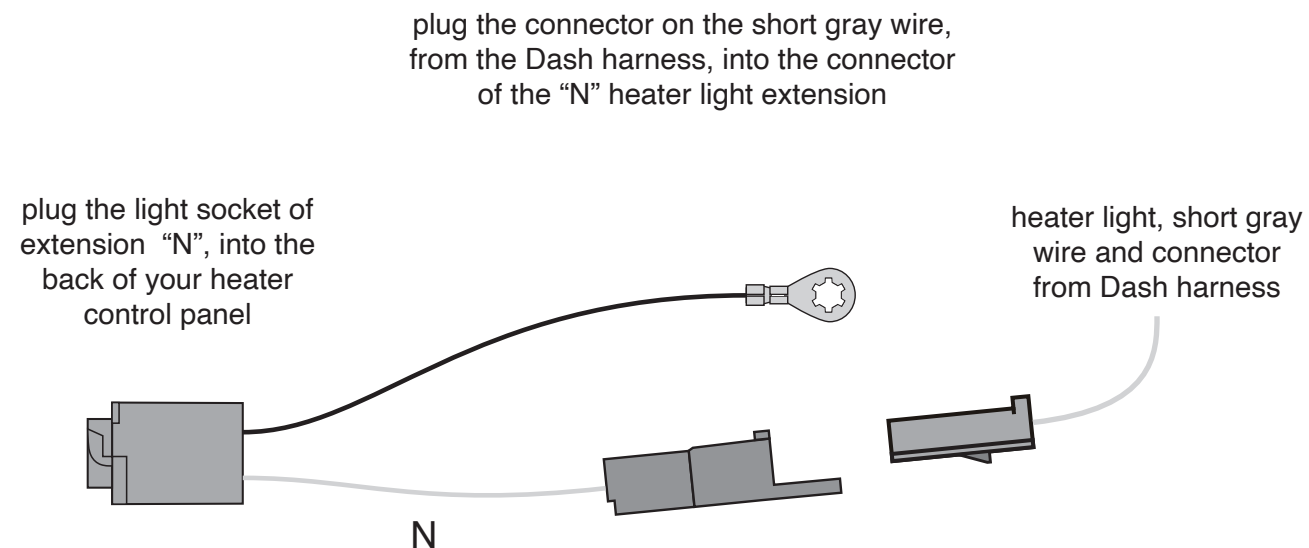
## Dimmer switch wiring (all years):



## Heater wiring (all years):

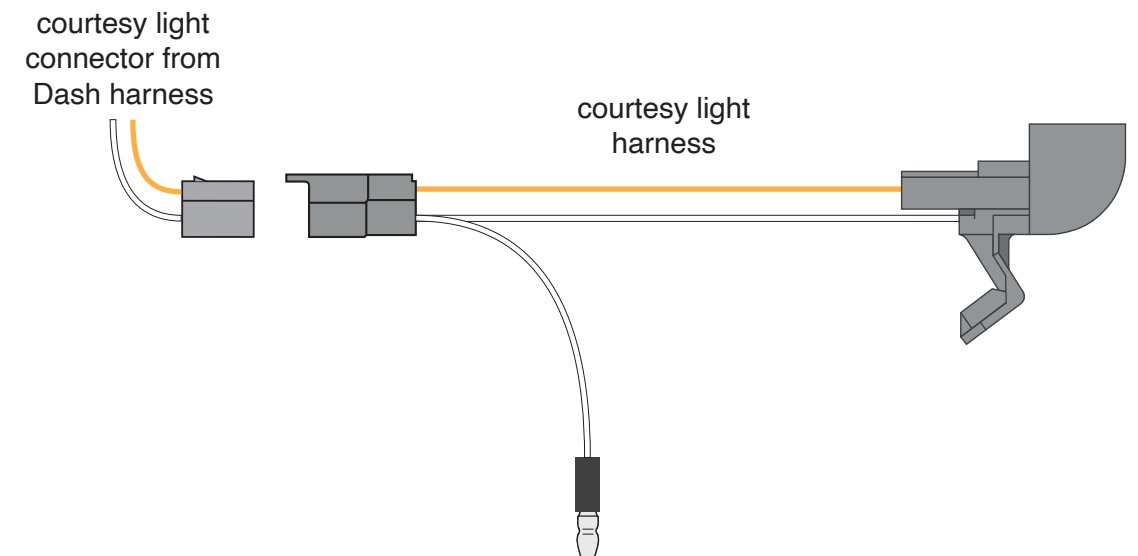


## Heater light wiring (all years):



## Courtesy light wiring (all years):

Connect the (2) courtesy light harnesses to the courtesy light connectors from the Dash harness: the left-hand harness at the same branch as the Brake switch and Horn relay connector and the right-hand harness at the same branch as the Cigar lighter and trunk release (See 500708 Courtesy Light Connection Kit, for (2) Courtesy Light harnesses and 92966085 instruction sheet)



1979-80 Firebird

Classic Update Series

510689 92971802 Rev 7.0 10/27/2023

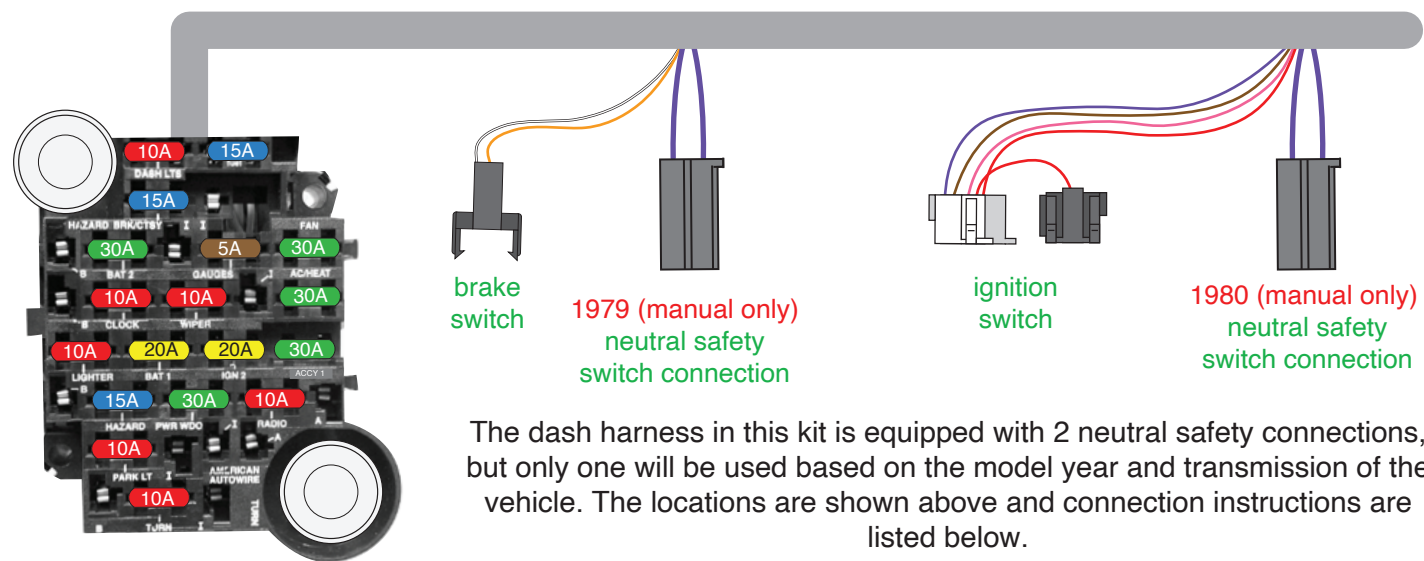


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# Dash/Main harness installation instructions:

## Neutral Safety switch wiring:

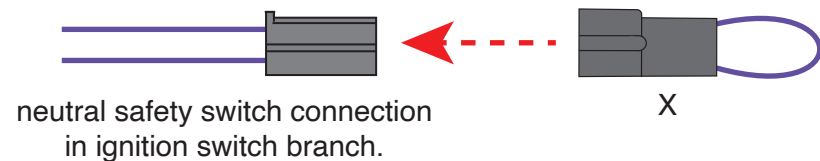


The dash harness in this kit is equipped with 2 neutral safety connections, but only one will be used based on the model year and transmission of the vehicle. The locations are shown above and connection instructions are listed below.

**Automatic Cars:** The 1979 & 1980 factory neutral safety switch was a mechanical lock-out inside the steering column. Because there is no electrical connection in the neutral safety mechanism, you must install the included NSS Jumper "X" (found in the 510702 parts kit) into one of the neutral safety switch connections on the dash harness. If this jumper is not installed, the vehicle WILL NOT start.

**Manual Cars:** For 1979, route the 1979 (manual only) neutral safety switch connection located in the brake light switch branch of the dash harness to the pedal mounted clutch switch and plug the connector onto the terminals on the switch. For 1980, find the 1980 NSS extension "P" in the 510702 parts kit, and insert the loose ends into connector "V" from the 510684 dash harness loose piece kit. Plug the connector "V" end of extension "P" into the neutral safety switch connection located in the ignition switch branch of the dash harness. Plug the other end of extension "P" on to the clutch pedal mounted switch.

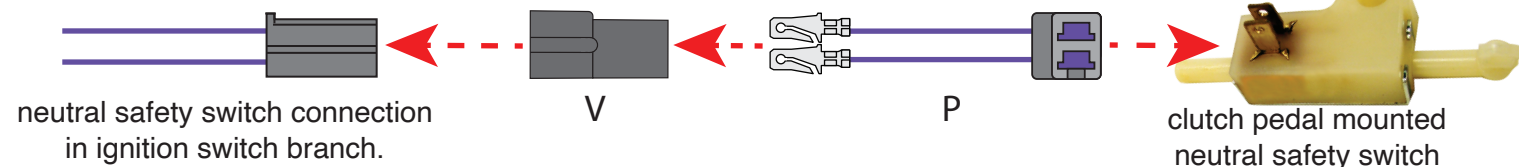
### 1979 & 1980 (automatic only)



### 1979 (manual only)



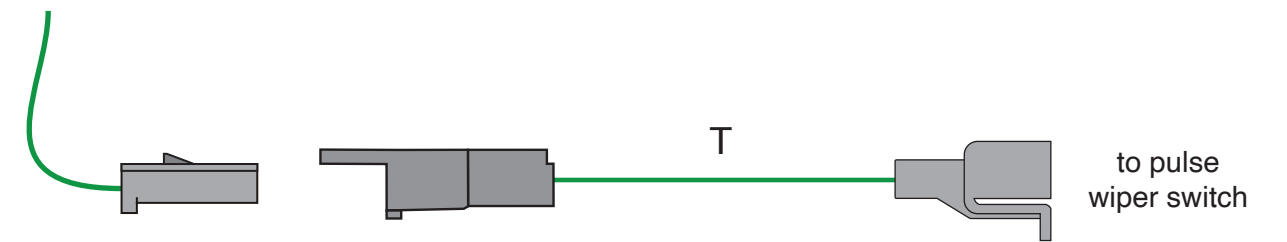
### 1980 (manual only)



## 1980 Pulse Wiper wiring:

Plug the pulse wiper connector on the dark green wire, from the Dash harness, into the proper connector of the "T" pulse wiper extension, then plug the other connector of the extension into the pulse wiper switch, mounted on the steering column.

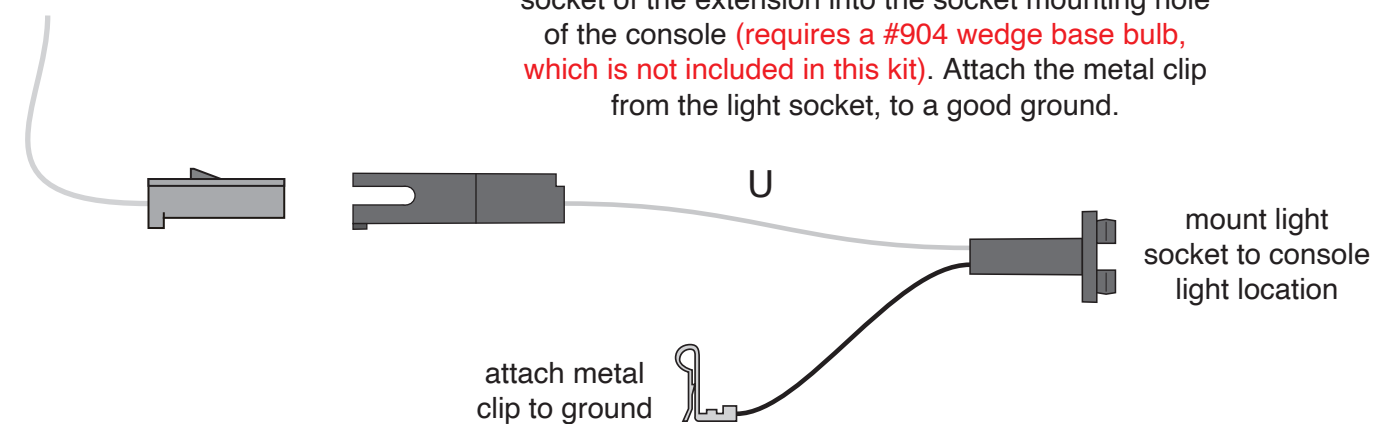
1980 pulse wiper switch  
dark green wire and connector  
from Dash harness



## Automatic Trans Console wiring (all years):

console gray wire  
and connector  
from Dash harness

Plug the console connector on the gray wire, from the Dash harness, into the connector of the "U" automatic console indicator light extension, then mount the light socket of the extension into the socket mounting hole of the console (requires a #904 wedge base bulb, which is not included in this kit). Attach the metal clip from the light socket, to a good ground.



### 1979-80 Firebird

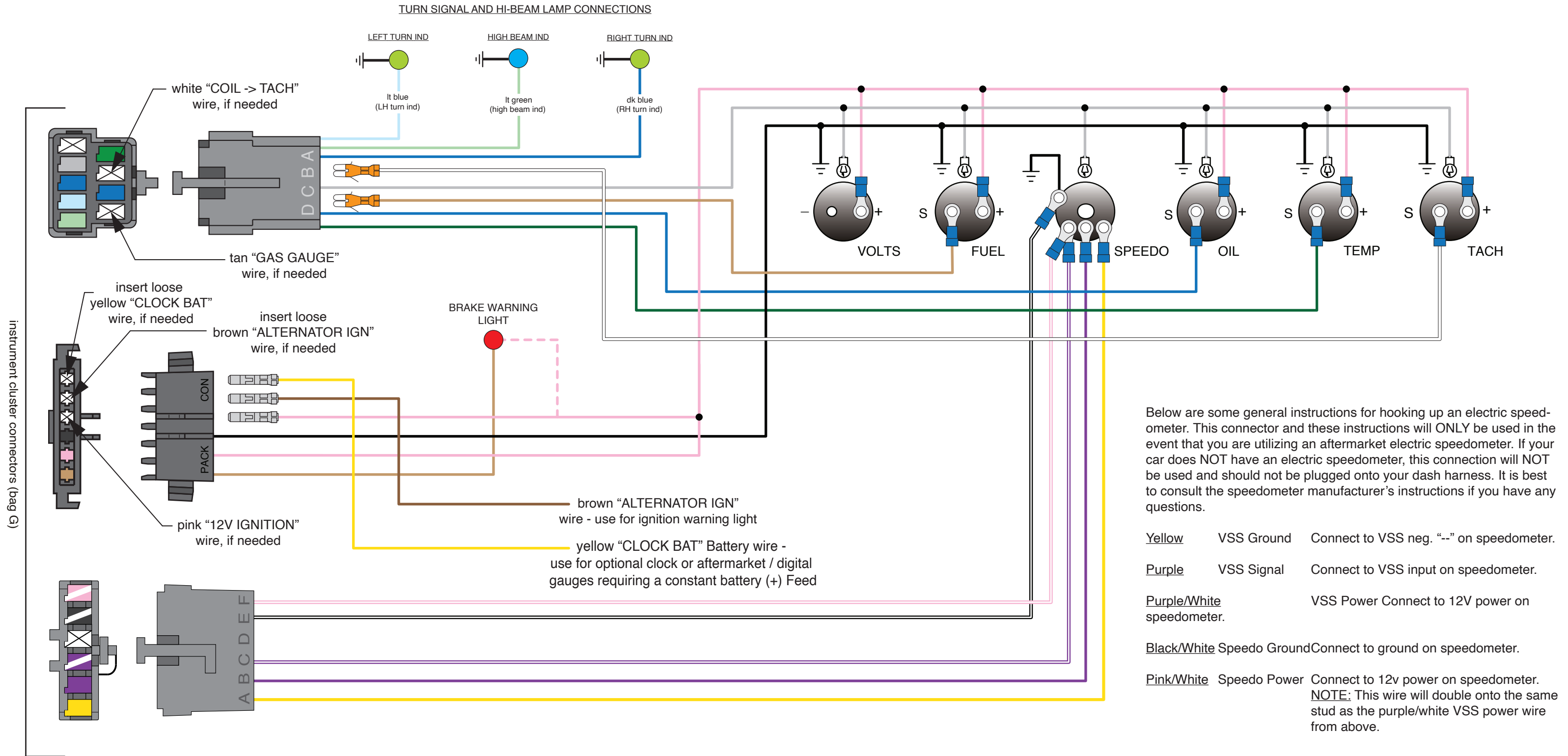
Classic Update Series

510689 92971802 Rev 7.0 10/27/2023



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# Gauge Cluster harness (aftermarket gauges) installation instructions:

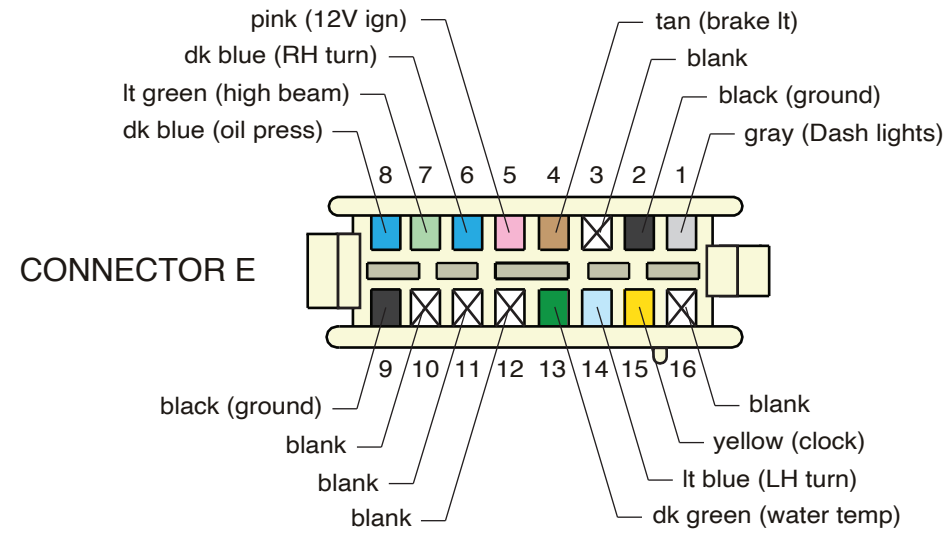


See pages 10-12

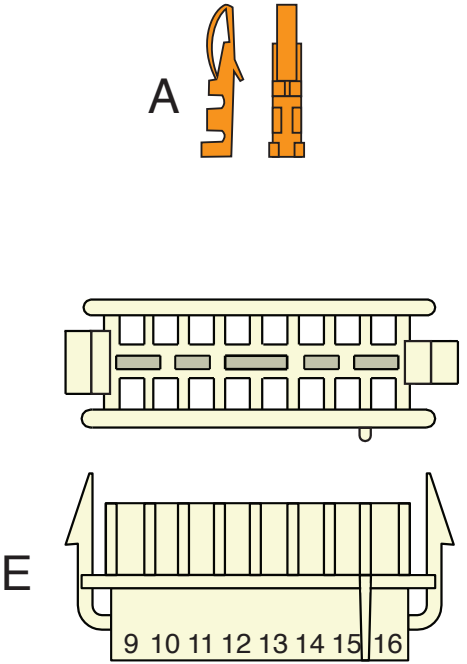
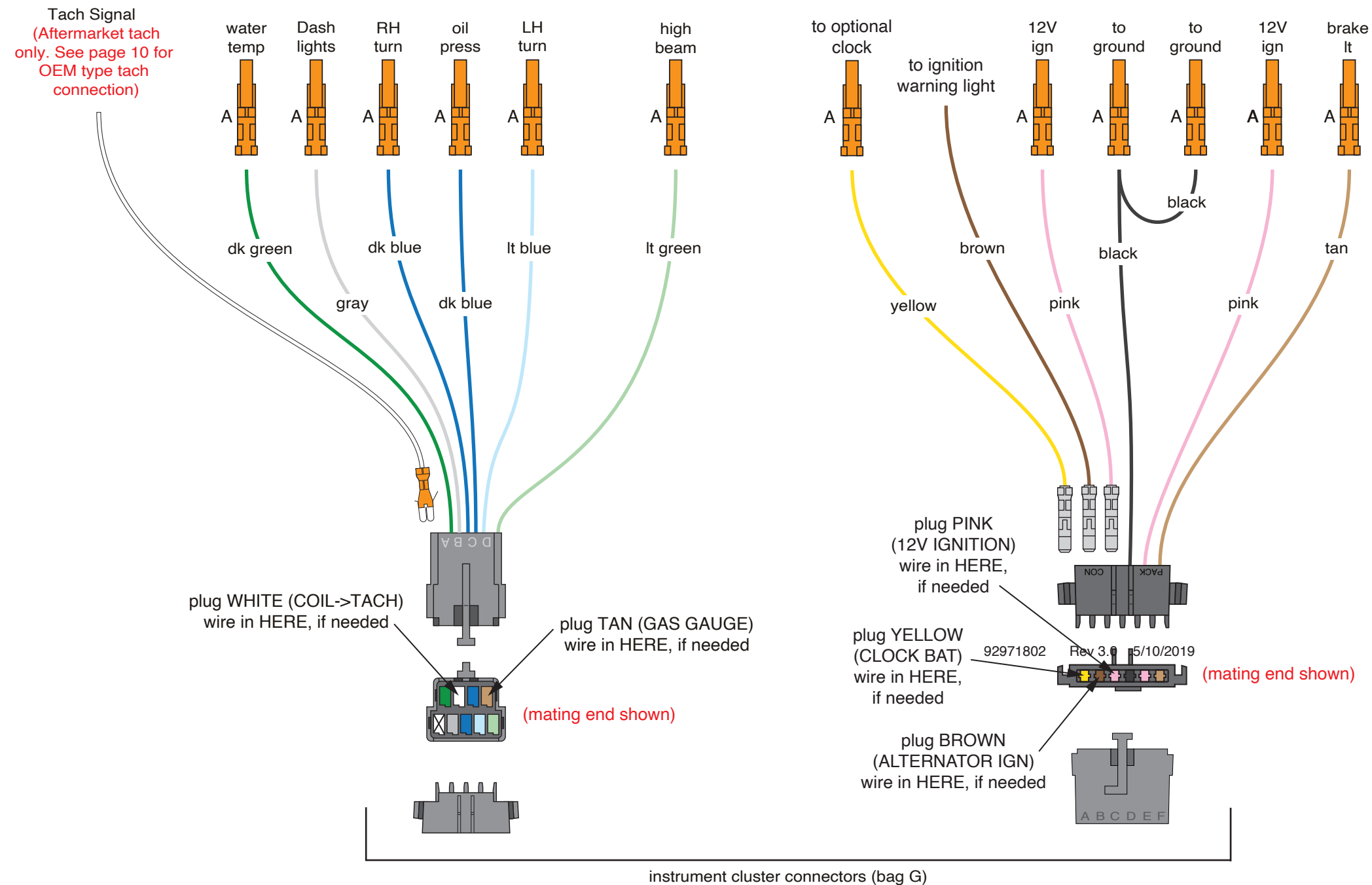
1979-80 Firebird  
Classic Update Series

# Gauge Cluster harness installation instructions:

## Rally Sport Gauges: All years



**NOTE:** see page 6 for fuel gauge and voltmeter connections.

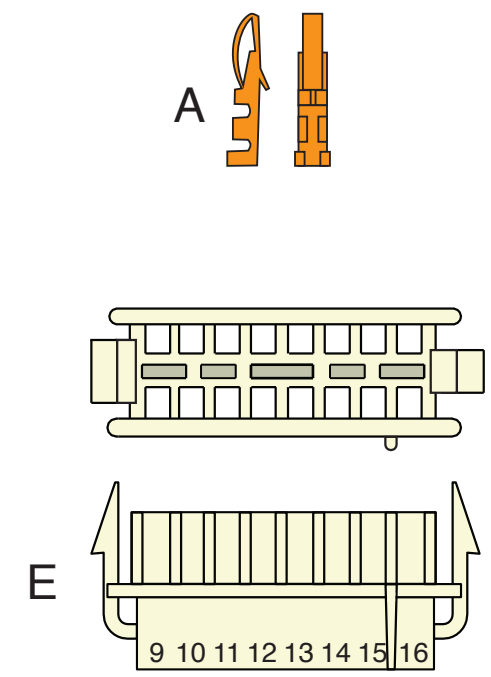
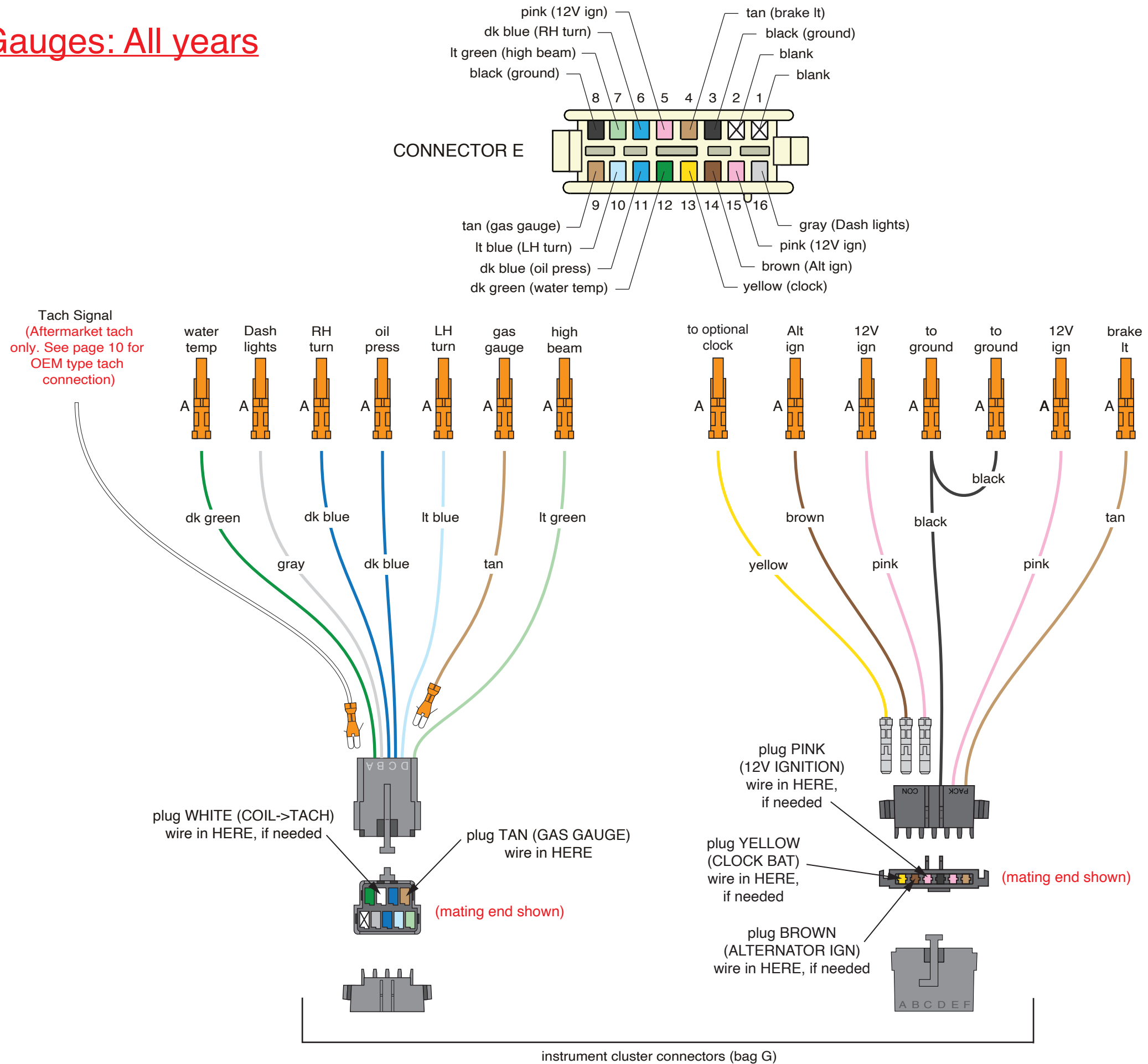


1979-80 Firebird  
 Classic Update Series  
 510689 92971802 Rev 7.0 10/27/2023



# Gauge Cluster harness installation instructions:

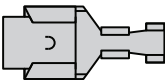
## Standard Gauges: All years



1979-80 Firebird  
 Classic Update Series  
 510689 92971802 Rev 7.0 10/27/2023

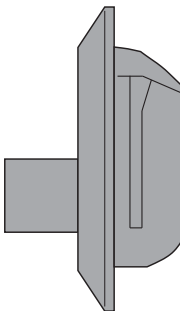
# Rear Body harness installation instructions:

Shown below, are the supplied misc. terminals, plastic connector bodies, clamps and wire extensions, included in the Rear Body Harness and Loose Piece bags, 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.

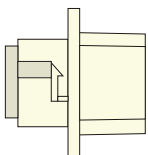
A  (56 Series single female terminal, 6 pcs)

B  (56 Series double female terminal, 12 pcs)


C  (56 Series single female connector, 1 pc)

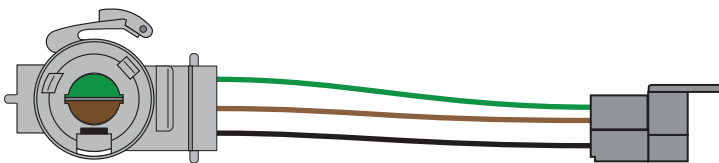
D  (grommet, 2 pcs)


E  (clip, conduit, 7 pcs)


F  (socket, wedge base, 2 pcs)

G  (terminal, wedge base, 5 pcs)


H  (LH tail, stop & directional light extension - reference, 2 pcs)


J  (RH tail, stop & directional light extension - reference, 2 pcs)

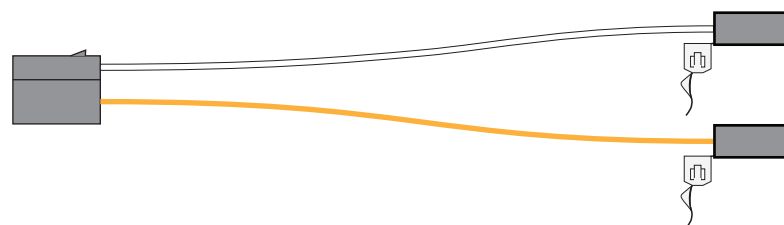
K  (tail light extension - reference, 2 pcs; **standard**)

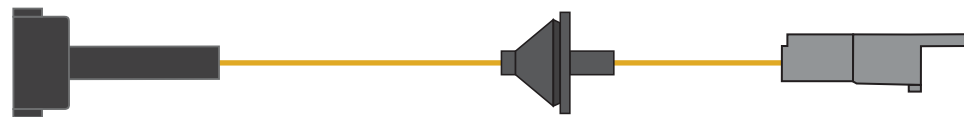
L  (back-up light extension - reference, 2 pcs)

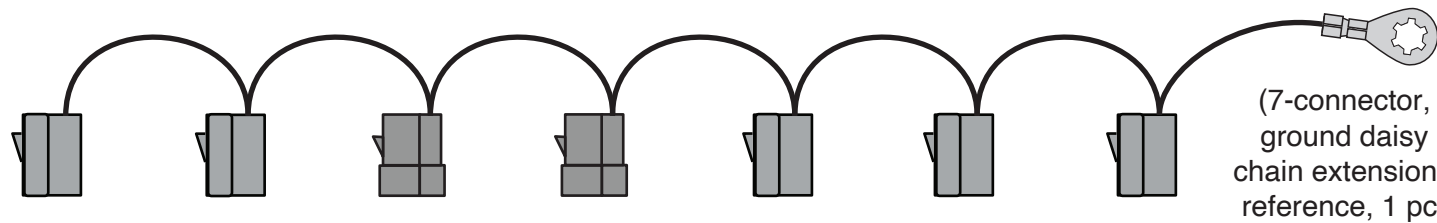
M  (side marker light extension - reference, 2 pcs)

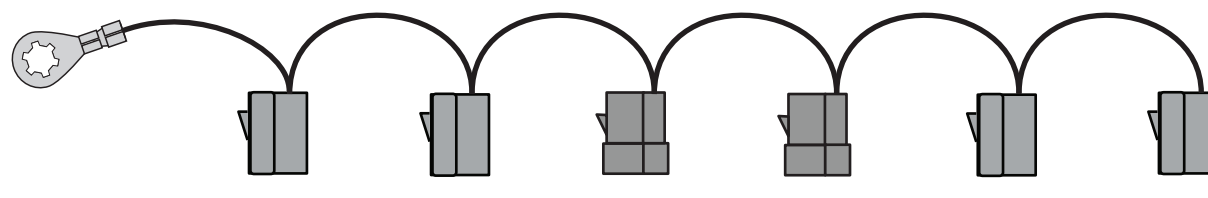
N  (tail light extension - reference, 4 pcs; **deluxe**)

P  (license plate light extension - reference, 1 pc)

R  (dome light extension - reference, 1 pc)

T  (fuel gauge extension - reference, 1 pc)

U  (7-connector, ground daisy chain extension - reference, 1 pc)

V  (6-connector, ground daisy chain extension - reference, 1 pc)

**1979-80 Firebird**  
 Classic Update Series  
 510689 92971802 Rev 7.0 10/27/2023

# Rear Body harness installation instructions:

## STANDARD

Rear Body  
(at Dash harness,  
near kick panel)

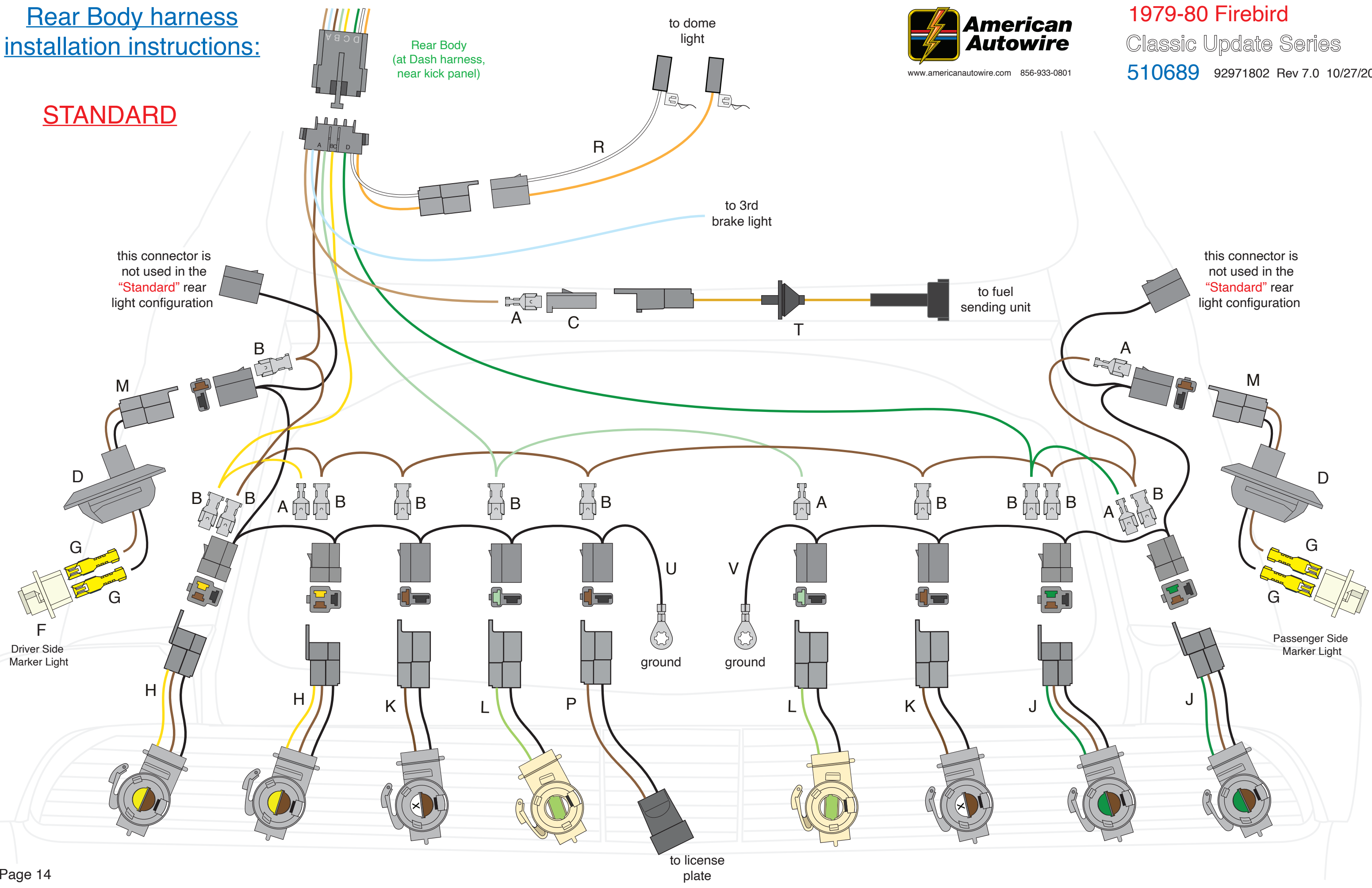
to dome  
light

to 3rd  
brake light

to fuel  
sending unit

this connector is  
not used in the  
"Standard" rear  
light configuration

this connector is  
not used in the  
"Standard" rear  
light configuration



to license  
plate

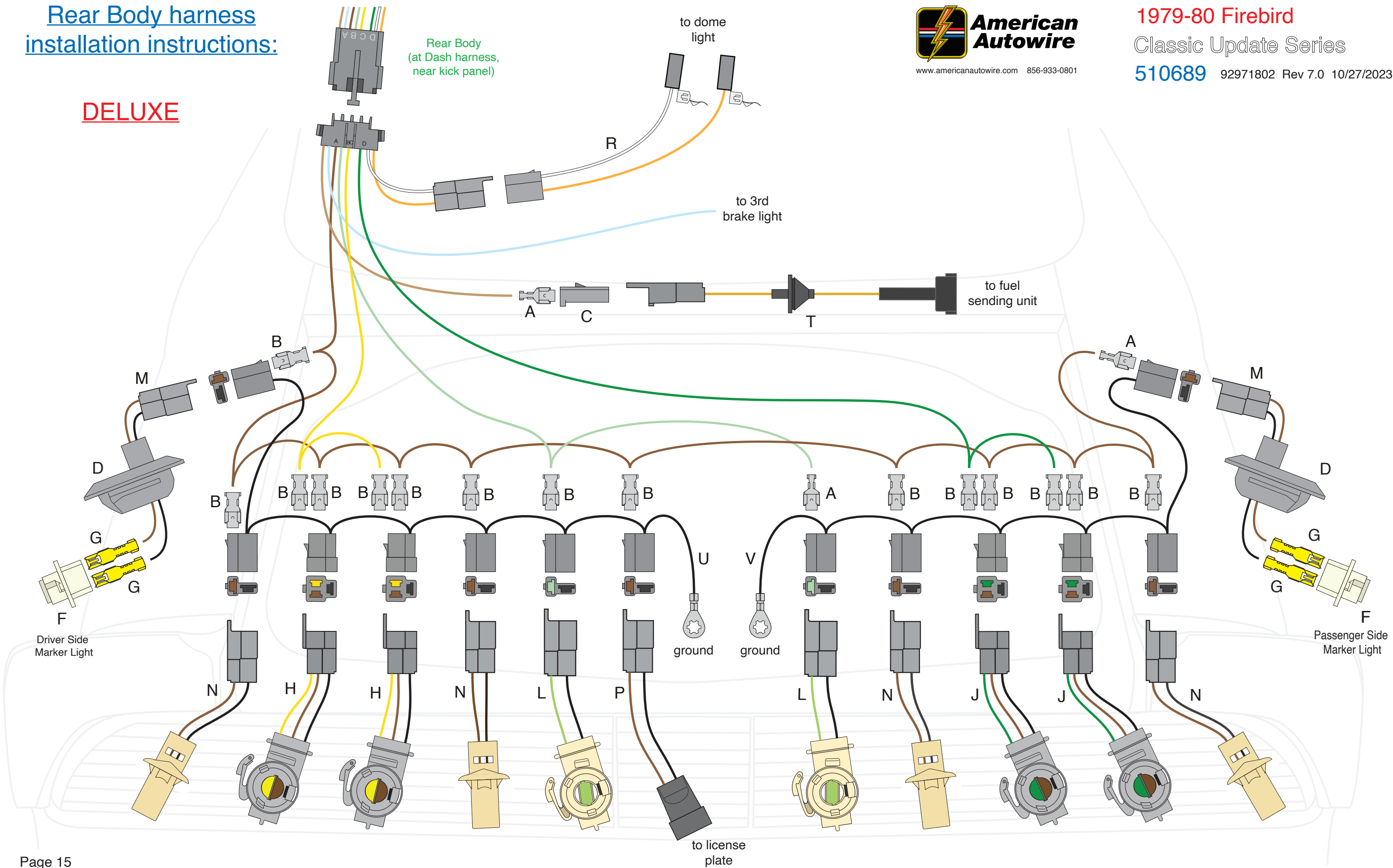


# Rear Body harness installation instructions:

**DELUXE**



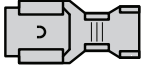
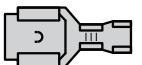
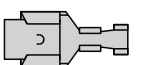
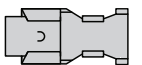



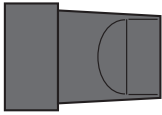
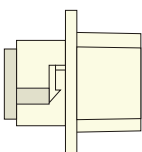

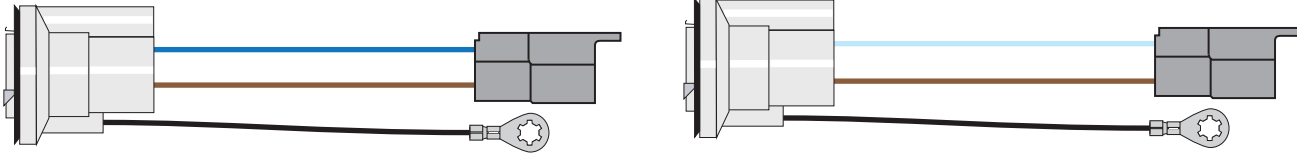
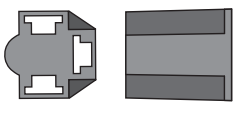






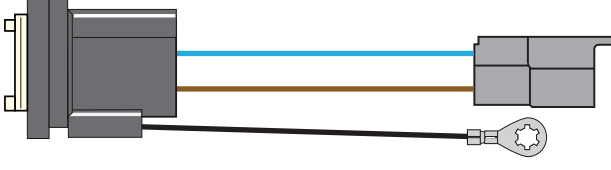
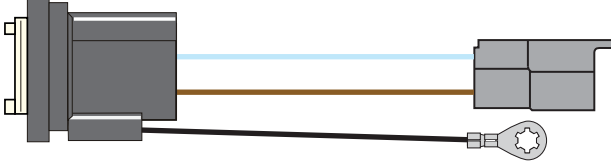


1979-80 Firebird  
Classic Update Series  
510689 92971802 Rev 7.0 10/27/2023



# Front Light harness installation instructions:

Shown below, are the supplied misc. terminals, plastic connector bodies, clips, grommets, pigtails and wires, included in the Front Light Harness and Loose Piece bags, 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 double female connector, 2 pcs)
- B  (56 Series single female connector, 2 pcs)
- C  (59 Series double female terminal, 9 pcs)
- D  (59 Series single female terminal, 4 pcs)
- E  (56 Series single female terminal, 7 pcs)
- F  (56 Series double female terminal, 6 pcs)
- G  (wedge base single female terminal, 5 pcs)
- H  (56 Series single female connector, 2 pcs)
- J  (clip, 8 pcs)
- K  (grommet, 1 pc)
- L  (light socket, wedge base, 2 pcs)
- M  (1977-80 high-beam headlight pigtails - reference, 2 pcs)
- N & P  (1974-76 LH and RH park/turn light pigtail -reference, 2 pcs; NOT USED IN THIS KIT)
- Q  (59 series triple female connector, 2 pcs.)
- R  (low beam headlight ground wires - reference, 2 pcs)
- T  (VSS ground wire - reference, 1 pc)
- U  (VSS signal wire - reference, 1 pc)
- V  (VSS power wire - reference, 1 pc)
- W  (transmission kickdown solenoid - reference, 1 pc)
- AA  (1977-78 park/turn pigtails - reference, 2 pcs; NOT USED IN THIS KIT)
- BB  (1979-80 RH park/turn light pigtail - Parts Kit 510702 reference, 1 pc)
- CC  (1979-80 LH park/turn light pigtail - Parts Kit 510702 reference, 1 pc)

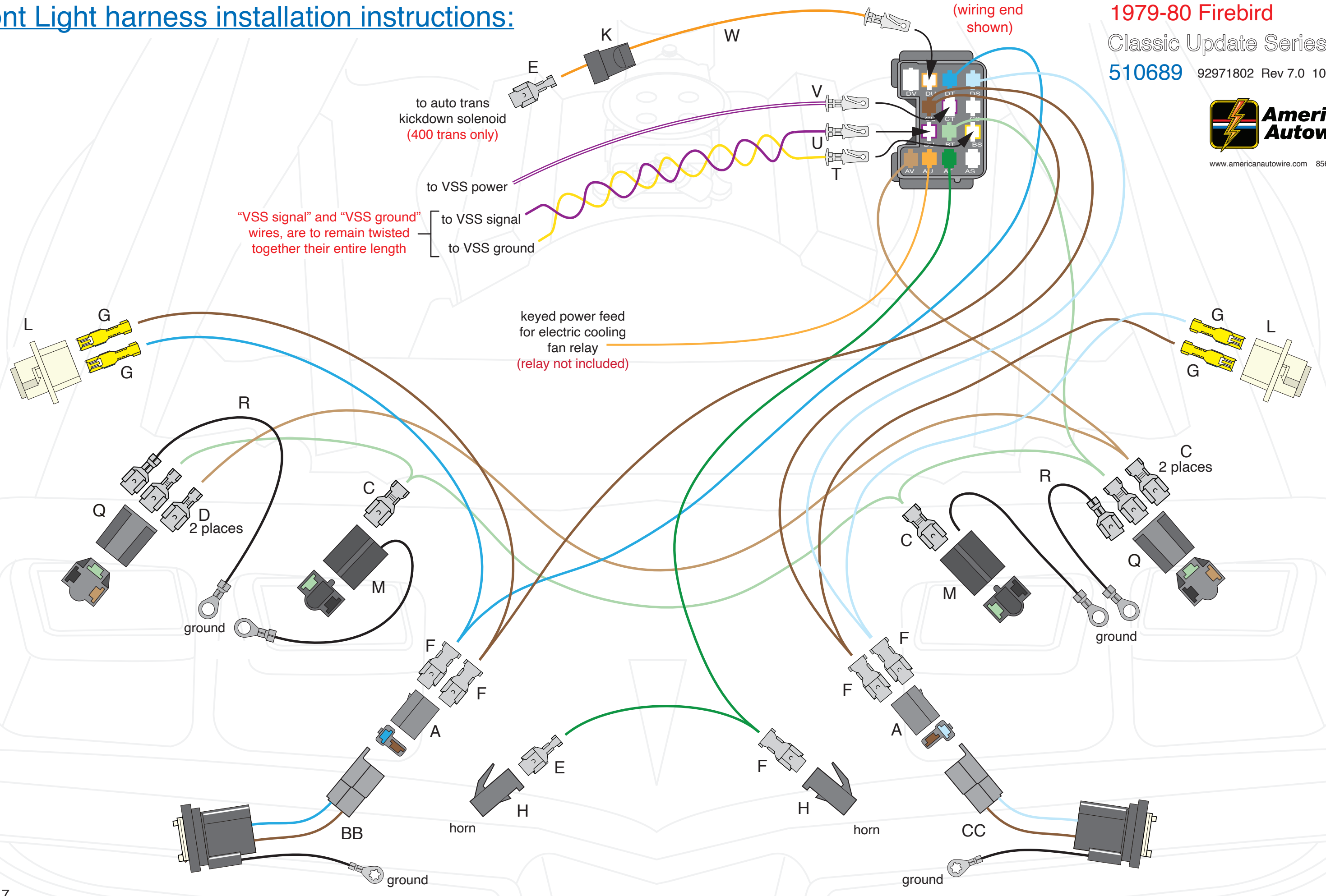


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**1979-80 Firebird**  
 Classic Update Series  
**510689** 92971802 Rev 7.0 10/27/2023

# Front Light harness installation instructions:

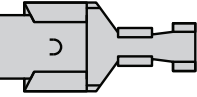

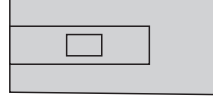


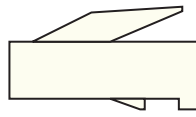
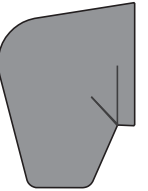
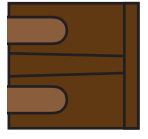

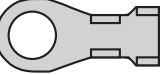
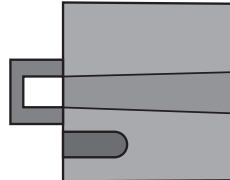


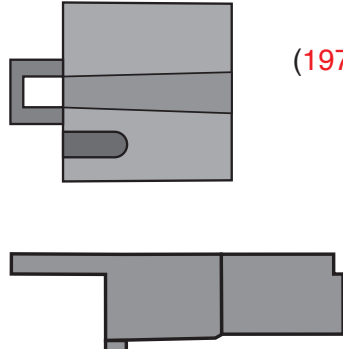

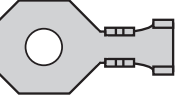



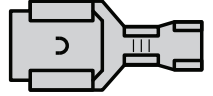

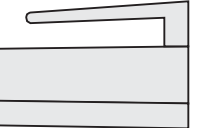


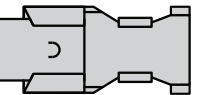

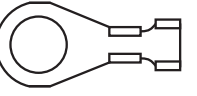

1979-80 Firebird  
Classic Update Series  
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# Engine harness installation instructions:

Shown below, are the supplied misc. terminals, sleeves, plastic connector bodies and wires, included in the Engine Harness and Loose Piece bags, 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.

- |  |   |   |
|--|---|---|
| <p>A  (56 Series single female terminal, 12 pcs)</p>  | <p>M  (1974-77 56 Series single female connector, 3 pcs;<br/><b>NOT USED IN THIS KIT</b>)</p> | <p>AA  (56 Series double female connector, 1 pc)</p>                                       |
| <p>B  (56 Series single female connector, 2 pc)</p>   | <p>N  (1975-77 56 Series double female connector, 1 pc;<br/><b>NOT USED IN THIS KIT</b>)</p>  | <p>BB  (56 Series single female connector, 1 pc)</p>                                       |
| <p>C  (rubber boot, 1 pc)</p>                         | <p>P  (1979-80 56 Series double female connector, 1 pc)</p>                                   | <p>CC  (GM "SI" jumper harness - reference, 1 pc)</p>                                      |
| <p>D  (ring terminal, 5 pcs)</p>                      | <p>R  (1975-77 56 Series double female connector, 1 pc;<br/><b>NOT USED IN THIS KIT</b>)</p>  | <p>EE  (1980 pulse wiper extension - reference, 1 pc)</p>                                  |
| <p>E  (large sleeve, 4 pcs)</p>                      | <p>T  (56 Series single male connector, 1 pc)</p>  | <p>FF  (electric choke wire - reference, 1 pc)</p>   |
| <p>F  (ring terminal, 2 pcs)</p>                    | <p>U  (59 Series single female connector, 1 pc)</p>   | <p>GG  (coil-tach wire - reference, 1 pc)</p>  |
| <p>G  (56 Series single female connector, 1 pc)</p> | <p>V  (59 Series single female terminal, 2 pcs)</p>   | <p>HH  (1974-77 brake light/switch wire - reference, 1 pc)</p>                           |
| <p>H  (56 Series single female connector, 1 pc)</p> | <p>W  (1978-80 56 Series 3-way female connector, 1 pc)</p>                                  | <p>JJ  (1978-80 brake pressure differential warning switch jumper - reference, 1 pc)</p> |
| <p>J  (56 Series double female terminal, 6 pcs)</p> | <p>Y  (56 Series double female connector, 1 pc)</p>   |   |
| <p>K  (ring terminal, 6 pcs)</p>                    |   |   |
| <p>L  (small sleeve, 5 pcs)</p>                     |   |   |



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**1979-80 Firebird**  
Classic Update Series  
**510689** 92971802 Rev 7.0 10/27/2023

# Engine harness installation instructions:

1979-80 Firebird

Classic Update Series

510689 92971802 Rev 6.0 2/22/2022



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(Use the Mega Fuse, ring terminals, boot and shrink tubing from the 510476 kit.)

(BUSBAR JUMPER FROM 510476 KIT)

6 GA. RED (FROM 510476 KIT)

positive battery cable (not included with this kit)

Optional connection for points cars. This yellow wire is not supplied.

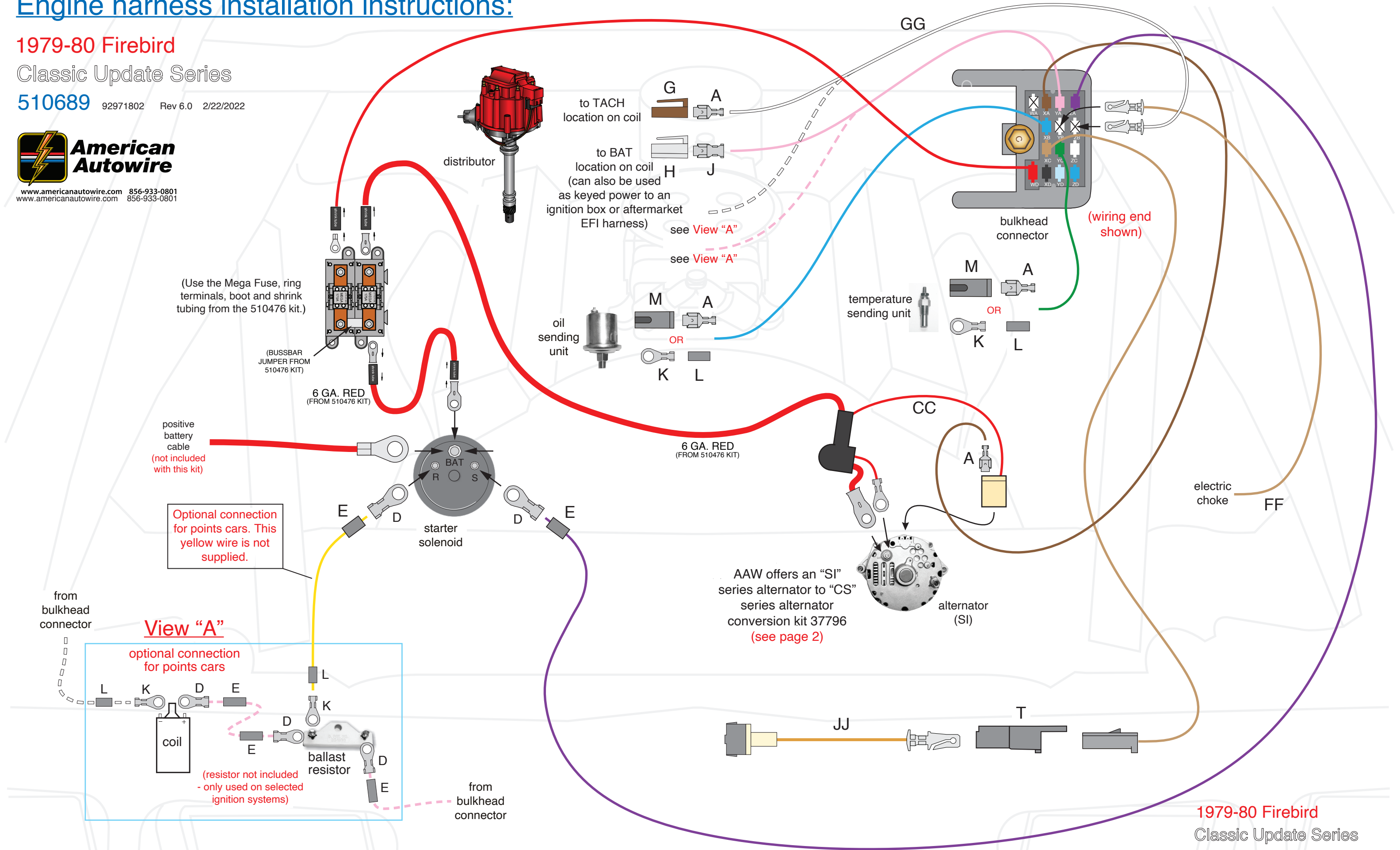
from bulkhead connector

## View "A"

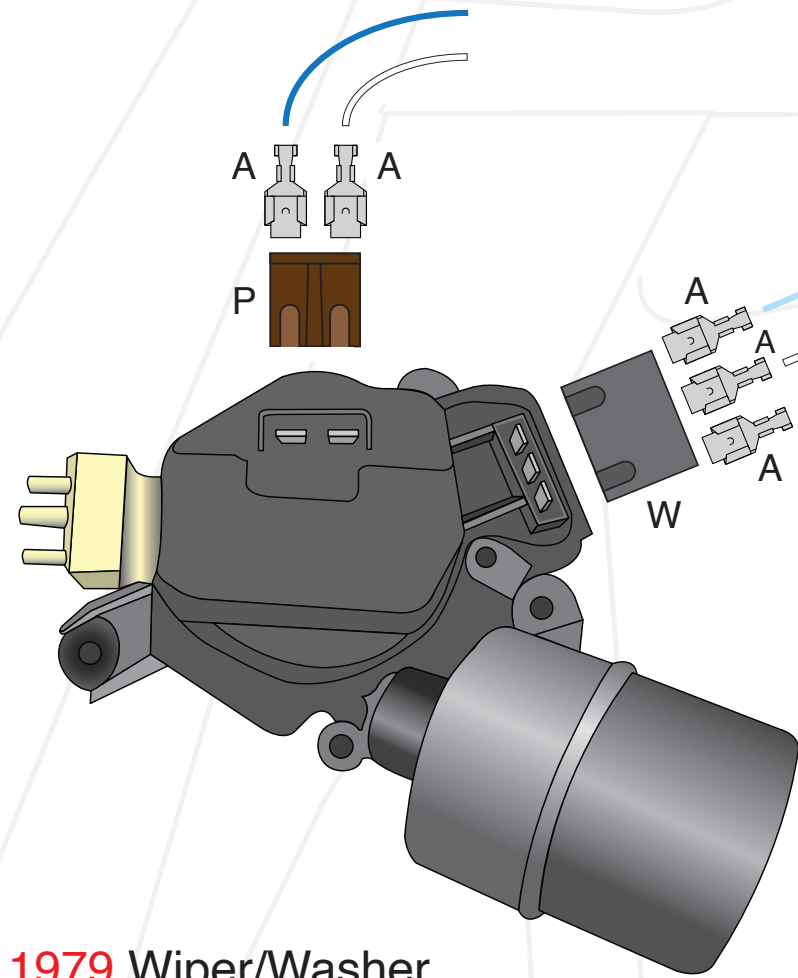
optional connection for points cars

(resistor not included - only used on selected ignition systems)

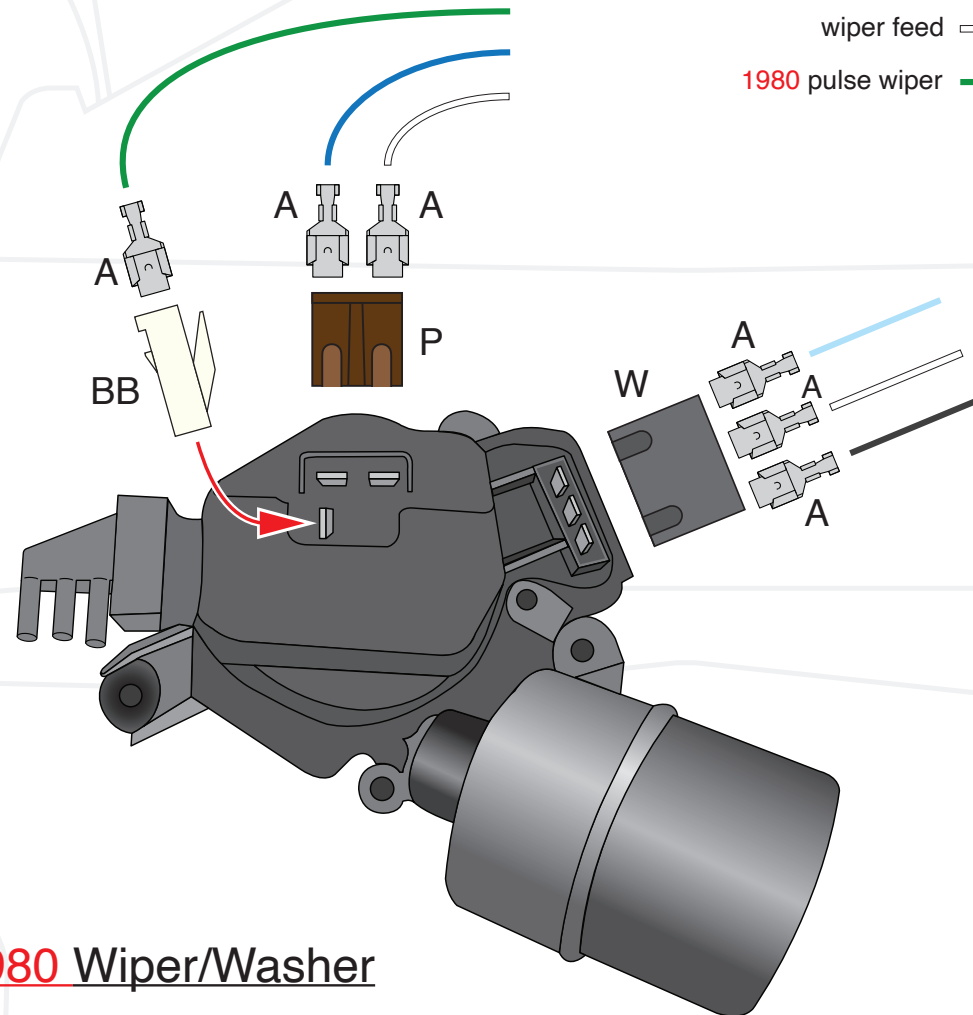
from bulkhead connector



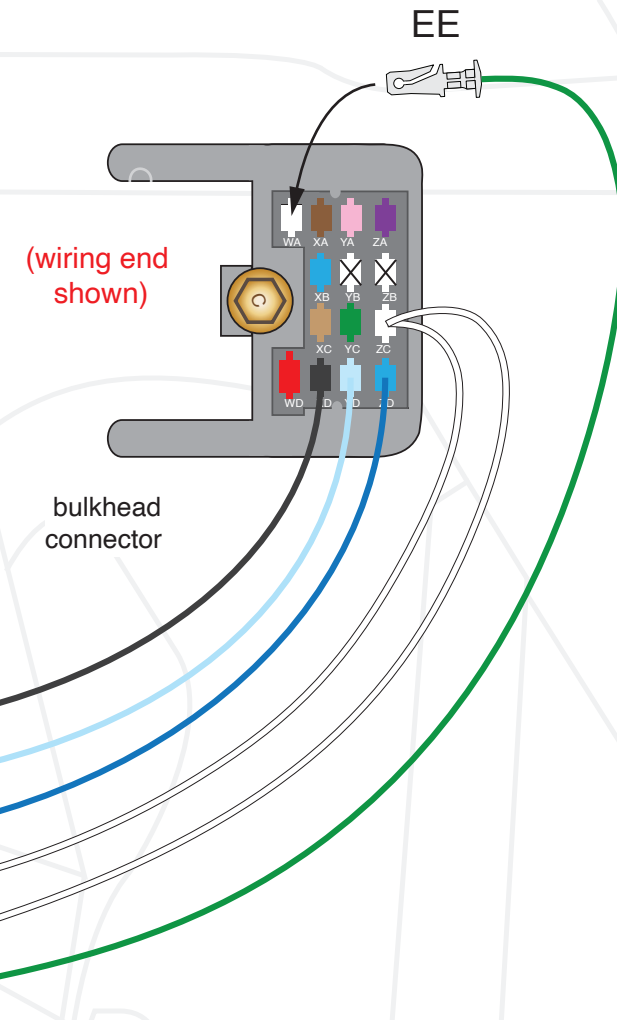
# Engine harness installation instructions:



**1979 Wiper/Washer**



**1980 Wiper/Washer**



- wiper - lo speed
- wiper - hi speed
- wiper - washer
- wiper feed
- wiper feed
- 1980 pulse wiper

**1979 PULSE WIPER NOTE:** Pulse wipers will require the reuse of the original pulse wiring harness or the addition of part number 510934



**1979-80 Firebird**  
Classic Update Series  
**510689** 92971802 Rev 7.0 10/27/2023



### 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.



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