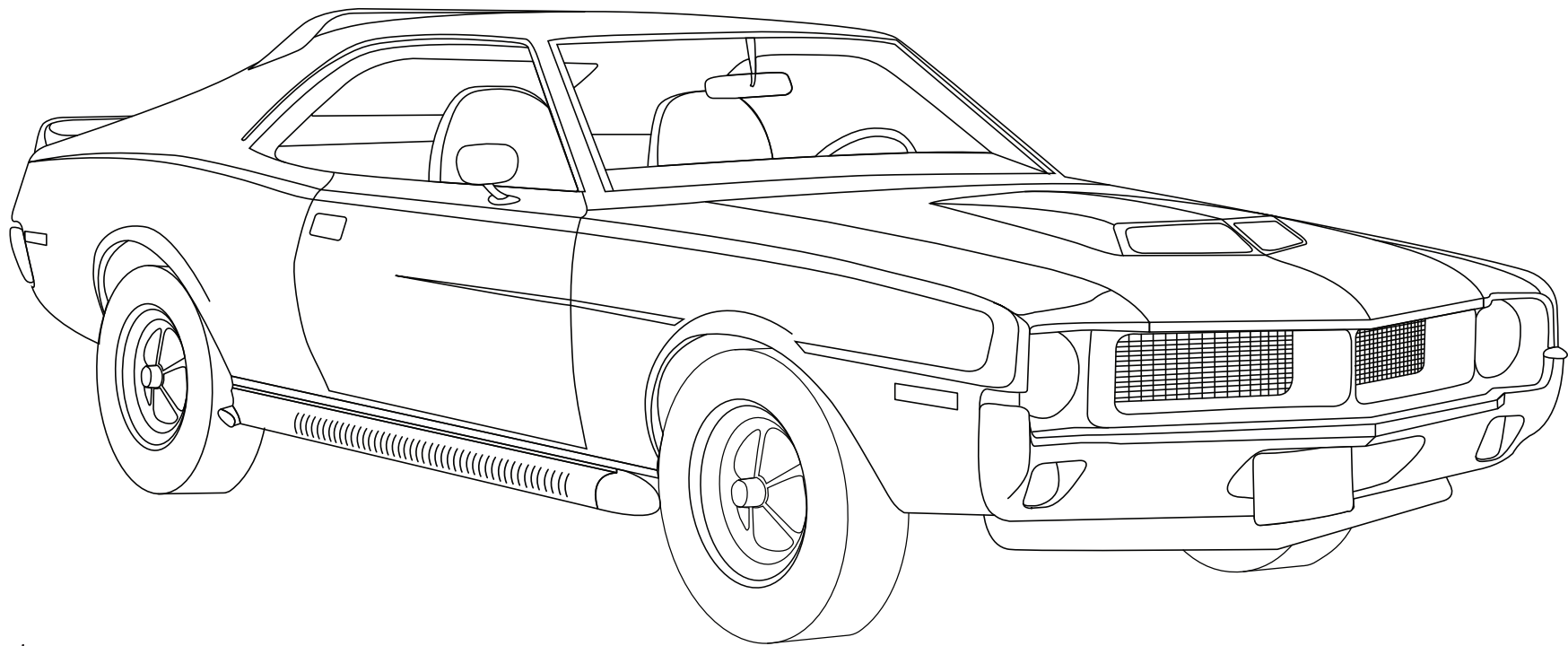




WARNING:
Validate the kit contents with the component list included on this page before proceeding. This kit is intended to be used in a modified vehicle. Please read this page thoroughly and be sure that you understand everything explained on it prior to opening any of the enclosed packages, or before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

1. This kit is designed for use in a **MODIFIED** vehicle only.
2. This kit **WILL NOT SUPPORT:**
 - The use of the factory Rally Pac ammeter, any aftermarket ammeters.
3. This kit **DOES SUPPORT:**
 - The use of a Dura-Spark ignition system (**NOTE:** A separate Dura-Spark Harness, and ballast resistor will be required for these applications.)
 - HEI, or other aftermarket ignition and fuel injection systems.
 - The use of a factory heater or A/C system, and/or aftermarket heater and A/C systems.
4. This kit only supports the use of a higher current, self-exciting 1-wire alternator or an internally regulated alternator. Optional adapters may be necessary for certain applications.
5. 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. See pages 30-31 for the various Ignition System Wiring configurations.
6. This kit **WILL NOT** support the use of a factory tachometer in it's original connection application as those tachs wired the primary ignition circuit directly in series through the tach and then out to the positive side of the coil. With this type of connection, any type of MSD or high energy ignition will generally destroy the internal circuitry of the tach and will cause the car to quit running as voltage will no longer flow through the tach and out to the coil or ignition control unit. **HOWEVER**, if your factory tach has been upgraded or retrofitted to a later style movement where the pulse post on the tach gets wired to the negative side of the coil (or to the tach output on an MSD box or similar unit) and the feed post of the tach uses a conventional 12 volt ignition connection, **you will be able to use this harness system.**



510963 - Classic Update Series Kit
1968-70 AMX & Javelin

This kit contains the following components:

Bag	Part Number	Description	Quantity
G	510964	Dash Harness kit	1
H	510965	Instrument Cluster wiring kit	1
J	510966	Engine Wiring Kit	1
L	510967	Front Light wiring kit	1
M	510968	Rear Body Wiring kit	1
K	510969	Console Connection Kit	1
Z	510476	Alternator and Main Power Conn. kit	1
V	510730	VSS Lead Wires	1
	500919	Practice Terminal Crimping set	1
	510995	Fuse, Relay, and Flasher kit	1
	510428	Headlight Switch	1
N	500708	Courtesy Light Connection Kit	1
	500042	Dimmer Switch	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.

510963 1968-70
AMX/Javelin Instructions
Classic Update Series



START HERE !

PLEASE READ THIS BEFORE STARTING INSTALLATION !

This wiring kit is designed for ease of installation. Please read the guidelines below BEFORE STARTING 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.



In addition to many other Tech Tip videos, AAW offers a great terminal crimping video, entitled "Proper Crimping Video". It can be viewed by visiting our YouTube channel. Links and scannable QR Codes to our YouTube channel, and the crimping video are listed below:



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

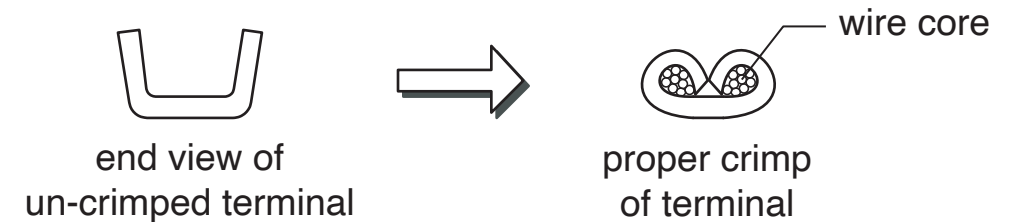


Crimp Video:
www.bit.ly/aawcrimp



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

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.



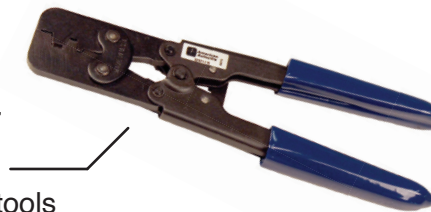
We carry the following crimping hand tools, to help with your terminal crimping.

These hand tools are available, for purchase or rental.

p/n 510585
OEM small gauge terminal crimping tool



p/n 510586
OEM large gauge terminal and double small gauge terminal crimping tool



p/n 510609
OEM sealed connector crimping tool (18-12 gauge)



p/n 510587
Includes Both terminal crimping tools

We carry the following accessories for your 1968-70 AMX & Javelin:

p/n 510824
Ford Duraspark Ignition Harness



p/n 500479
Universal Relay Kit



p/n CG83128
Underhood Lamp



American Autowire

www.americanautowire.com 856-933-0801

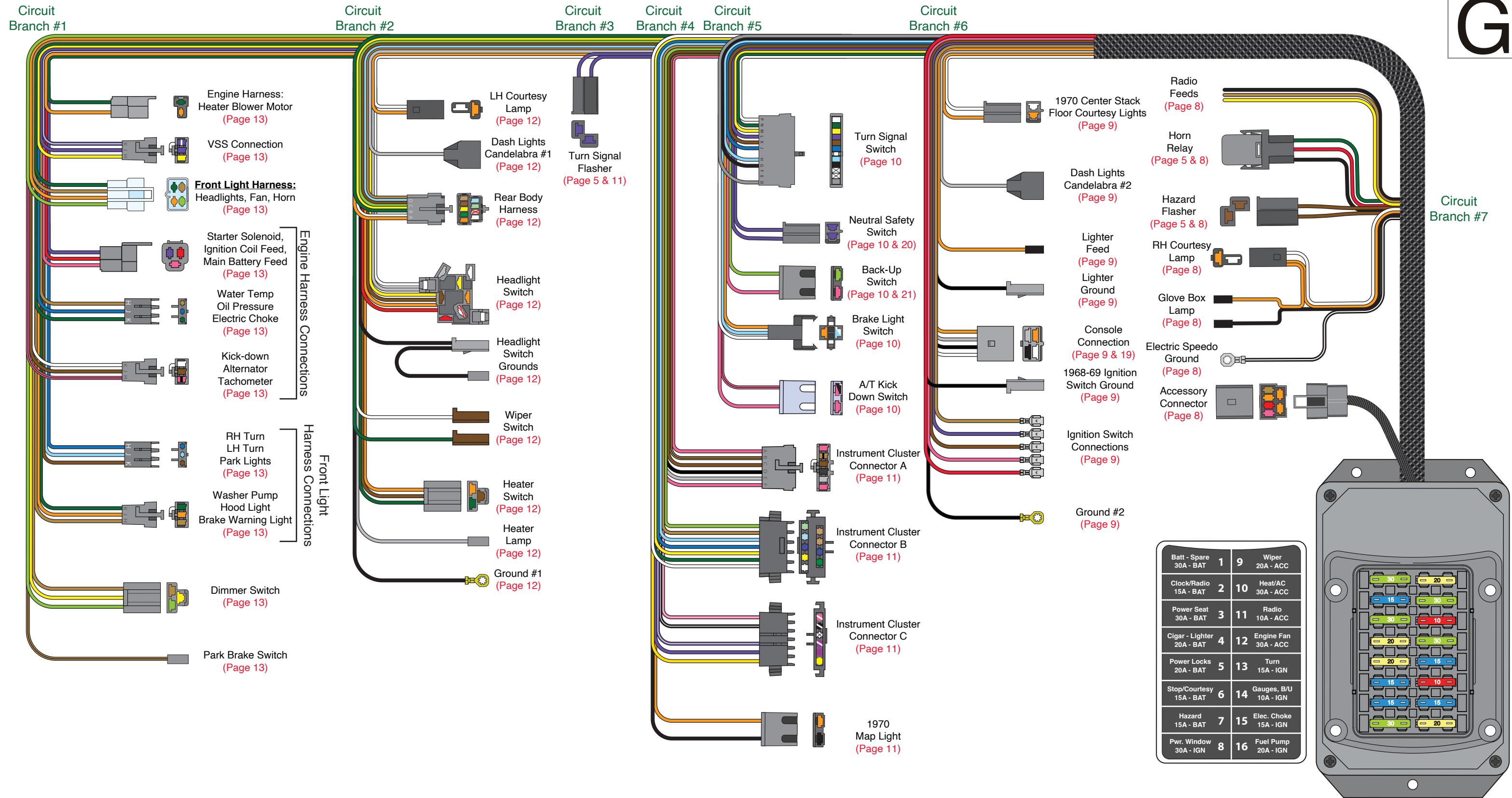
1968-70 AMX/Javelin
510963

Classic Update Series

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Table of Contents:

Bag:	Page(s):	Section:
G	4 - 13	Dash Harness Kit (510964) – This is the main harness in the kit and will be installed first. All other harnesses will connect to this harness. The Dash Harness contains: Accessory Power Feed connection Park Brake Warning Switch connection Rear Body Harness connection LH & RH Door Jamb Switches Horn Relay connection Instrument Cluster Harness connections Headlight Switch connection Headlight Switch ground circuit Automatic Trans Kickdown Switch connection LH and RH Courtesy Light connections Map Light connection Ground connections Wiper Switch Feed connection Washer Motor Feed connection Ignition Switch Connections Turn Signal Switch connection Stop Light Switch connection Various Dash Illumination Lights connections Heater Switch On/Off connection Cigar Lighter connections 1970 Center Stack Floor Courtesy Light connection Glove Box Lamp connection Main Console connection Dash Light Candelabras Back Up Switch connection Heater Blower Motor connection Radio wires VSS Connection Main Power Feed, Alternator Exciter Feed Heater Panel Light connection Electric Speedometer Ground connection Headlight Dimmer Switch connection Turn and Hazard Flasher connections Neutral Safety Switch connection
H	14-17	Instrument Cluster Wiring Kit (510965) – This harness is assembled by the customer and connects to: Printed Circuit Board connections (PCB) Aftermarket Gauges Dash Harness connections All gauges (Volts, Fuel, Speedo, Oil, Temp, Tach) LH and RH Turn Indicator Light connections
N	18-21	Console Connection Kit (510969) – This harness is assembled by the customer and connects to: Neutral Safety Switch extension Console Mounted Courtesy Lamp Back Up Switch extension Console Shifter PRNDL Lamp
L	22-27	Front Light Wiring Kit (510967) – This harness connects to the Dash harness and the: LH & RH Headlights LH & RH Parking/Turn Lamps Electric Fan Relay Ignition Feed LH & RH Side Marker Lamps Washer Pump Under Hood Lamp Feed Brake Pressure Warning Switch Horns
J	28-32	Engine Wiring Kit (510966) –This harness connects to the Dash harness and the: Electric Choke Starter Relay Ignition System Tach, Oil Press and Temp Heater Resistor and Blower Motor Auto Transmission Kickdown Main Power Feed, Alternator Exciter Feed
M	33-40	Rear Body Wiring Kit (510968) – Interior and exterior connections. This harness connects to the Dash harness and the: C-Pillar Courtesy Lights Left & Right Rear Turn Signals Rear Side Markers Fuel Tank Sender Extension Third Brake Light (Optional) License Lamp Rear Running Lights Back Up Lights



Fuse Block and Vehicle Preparations:

STEP 1: DISCONNECT THE BATTERY

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

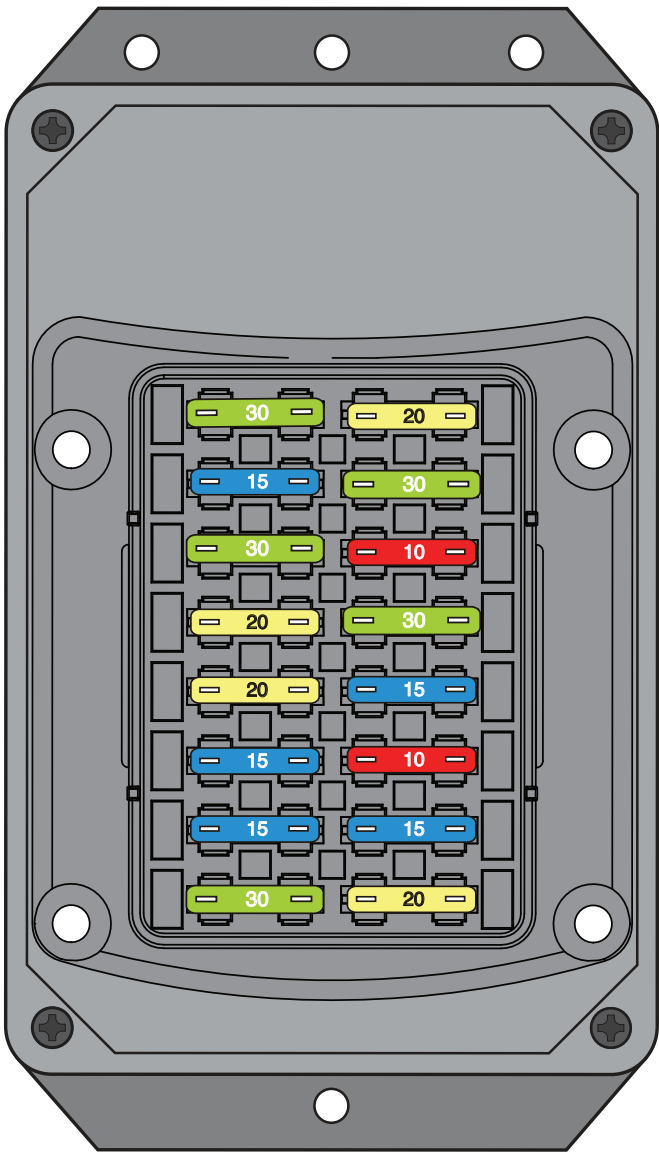
STEP 2: REMOVE THE INSTRUMENT PANEL ASSEMBLY & ORIGINAL HARNESS

Using a vehicle assembly or service manual for reference, remove the instrument panel assembly from the vehicle. Once removed, place the instrument panel assembly on a suitable work bench. Remove the original harness from the dash assembly and set aside. There are components on the original assembly that will be needed to complete connections during the installation.

STEP 3: LOAD THE FUSE BLOCK

Prior to installing the Dash harness, obtain the Fuse, Flasher, and Relay Kit, P/N 510995, plug all of the fuses into the Fuse Block and the Flashers and Relays into the dash harness as shown below and below right.

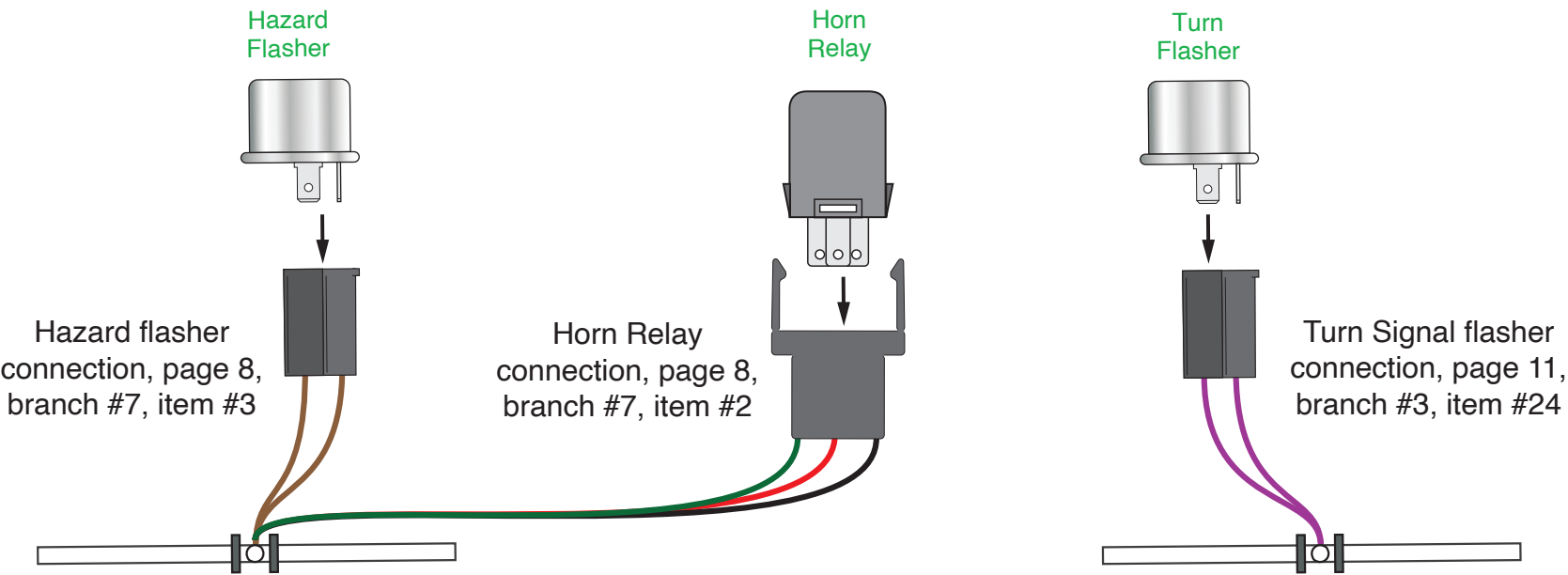
Batt - Spare 30A - BAT	1	9	Wiper 20A - ACC
Clock/Radio 15A - BAT	2	10	Heat/AC 30A - ACC
Power Seat 30A - BAT	3	11	Radio 10A - ACC
Cigar - Lighter 20A - BAT	4	12	Engine Fan 30A - ACC
Power Locks 20A - BAT	5	13	Turn 15A - IGN
Stop/Courtesy 15A - BAT	6	14	Gauges, B/U 10A - IGN
Hazard 15A - BAT	7	15	Elec.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



Fuse #	Fuse Block Printing	Fuse Rating	System Wiring Protected
1	BATT - SPARE	30A	12V Battery Feed for 6-Way Accessory Connector for Battery Options
2	CLOCK/RADIO	15A	12V Battery Feed for Dash Mounted Clock, and Radio (Aftermarket Clock Memory)
3	POWER SEAT	30A	12V Battery Feed for 6-Way Accessory Connector for Power Seat Options
4	CIGAR - LIGHTER	20A	12V Battery Feed for Cigar Lighter
5	POWER LOCKS	20A	12V Battery Feed for 6-Way Accessory Connector for Power Lock Options
6	STOP/COURTESY	15A	12V Battery Feed for Courtesy Lights, Map Light, Glove Box Light, Brake Switch, Trunk Light/Hood light(Optional), Dash Illumination Lights
7	HAZARD	15A	12V Battery Feed for Hazard Flasher, 6-Way Accessory Connector for Battery Options
8	POWER WINDOW	30A	12V Ignition Feed for 6-Way Accessory Connector for Power Window Options
9	WIPER	20A	12V Accessory Feed for Wiper Motor, Washer Pump
10	HEAT / AC	30A	12V Accessory Feed for Heater System, A/C System
11	RADIO	10A	12V Accessory Feed for Accessory Feed to Radio (On-Off)
12	ENGINE FAN	30A	12V Accessory Feed for Electric Fan Relay
13	TURN	15A	12V Ignition Feed for Turn Signal Flasher
14	GAUGES, B/U	15A	12V Ignition Feed for Gauges (Temp, Fuel, Tach), Park Brake Warning Light, Back-Up Lights
15	ELEC. CHOKE	15A	12V Ignition Feed for Electric Choke
16	FUEL PUMP	20A	12V Ignition Feed for Electric Speedometer, 6-Way Accessory Connector for Electric Fuel Pump or other Ignition Options

510995 Fuse, Flasher & Relay Kit Contents:

- Turn/Hazard Flasher (See Page 9 & 12) - QTY: 2
- 10 Amp Fuse (Red) - QTY: 2
- 15 Amp Fuse (Blue) - QTY: 5
- 3-Pin Horn Relay (See Page 9) - QTY: 1
- 20 Amp Fuse (Yellow) - QTY: 4
- 30 Amp Fuse (Green) - QTY: 5



1968-70 AMX/Javelin
510963

Classic Update Series

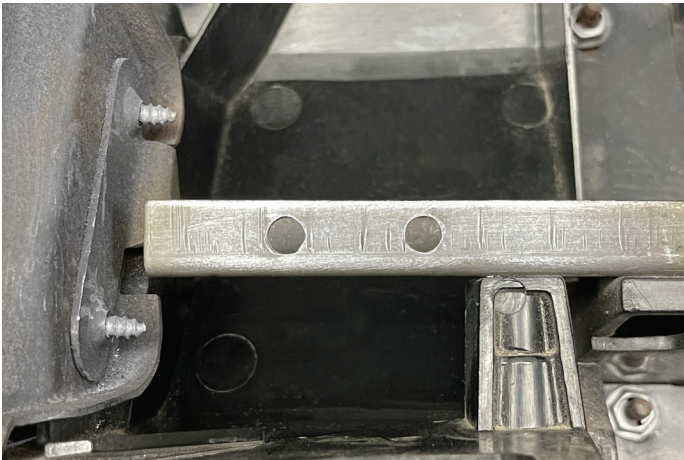
92974062 Rev 0.0 06/02/2025

510964 Dash harness instructions:

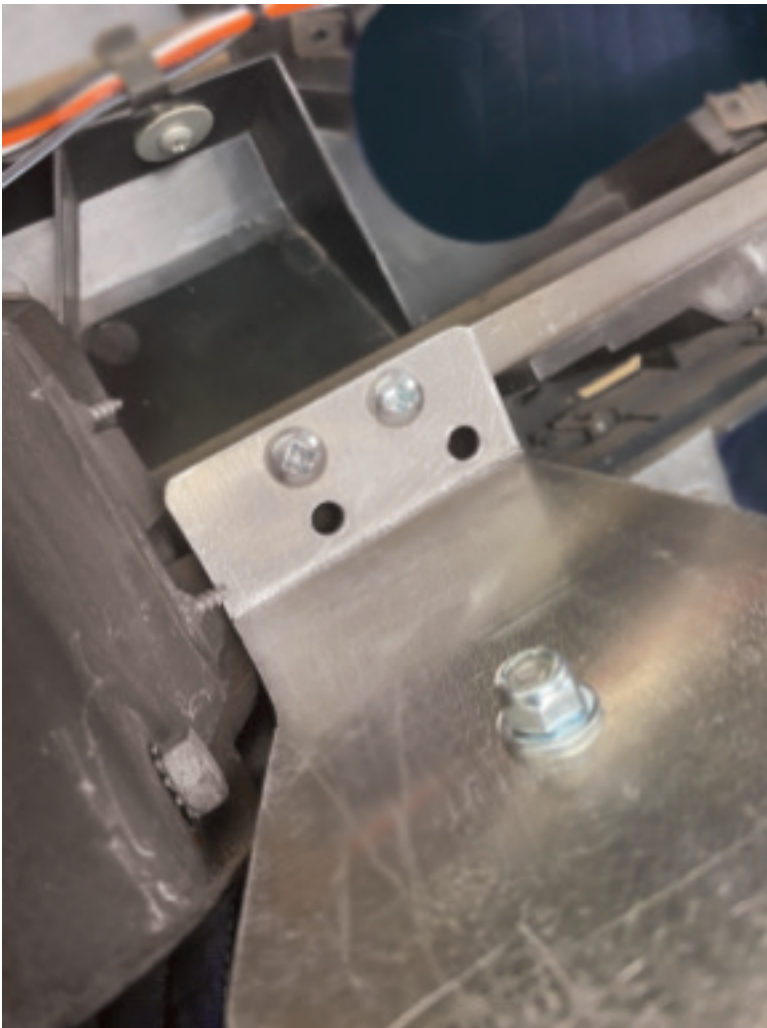
Fuse Panel Mounting Bracket Instructions

The included fuse panel mounting bracket is designed to attach to the dash assembly with minimal modification as shown in the photos below. Attach the fuse panel to the mounting bracket using the supplied 10-32 screws, washers, and locking nuts (**Items “S” & “T” - Page 7**). Temporarily position the assembled bracket and fuse panel / harness in place to verify your clearance, and adjust as needed. Once confirmed, using the provided template as a guide for positioning, mark and drill two (2) 1/4" holes in the main dash support frame at the location shown below. Please note the different spacing for the two different applications (1968-9 and 1970). While the exact location of the fuse panel bracket is not critical, installation is limited to approximately 1/4" of adjustment due to nearby components such as the radio support or glove box. Secure the bracket using the included 1/4"-20 screws, locking nuts, and washers (**Items “U” & “W” - Page 7**).

1968-69 Mounting Holes



1968-69 Bracket Mounted



1970 Bracket Mounted



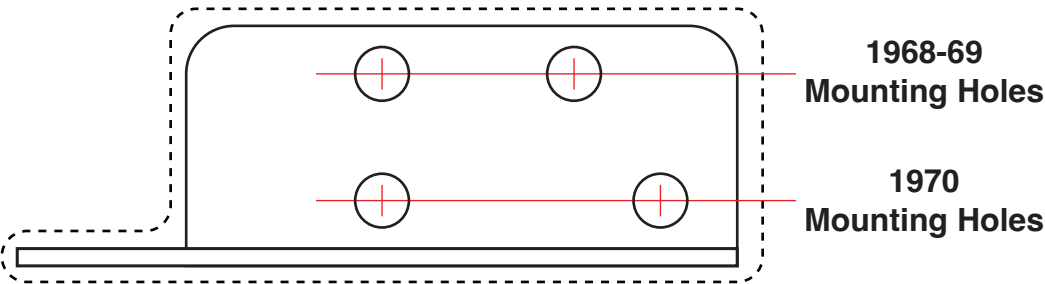
1970 Fuse Panel Location



1968-69 Fuse Panel Location



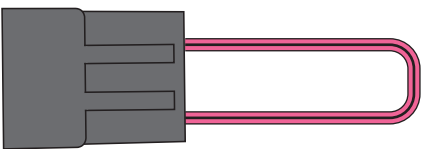
Cut along dotted line for drilling template



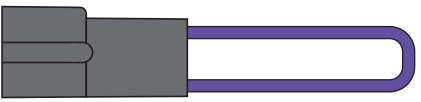
510964 Dash harness instructions:

Below are the harness extensions, terminals, and connector bodies included in the Dash Harness 510964 and Loose Piece bag. These will be used to complete the dash harness connections and are referenced by the letters and descriptions below from this point forward.

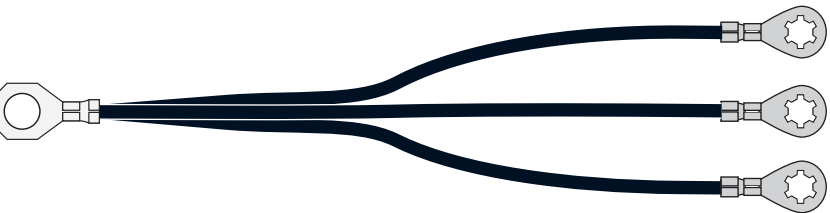
- A




(A/T Kick Down Switch BYPASS, 1969 & 1970, 1 piece)
- B



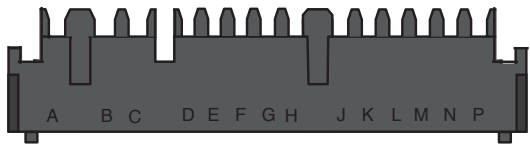
(Neutral Safety Switch Over Ride Jumper, All M/T, 1 piece)
- C




(Ground Jumper, 68 Tach, Clock, Wiper Sw., HVAC to Dash, 1 piece)
- D



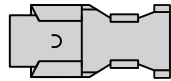
(J-Clamp, Metal, 9/16, 2 pcs)
- E



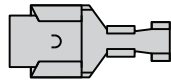
(Connector, Pack-Con, Mx14, 1 piece)
- F



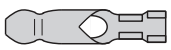
(Terminal, Pack-Con, Male, 12 pcs)
- G




(Terminal, 56F, Double, 8 pcs)
- H




(Terminal, 56F, Single, 6 pcs)
- J



(Terminal, Bullet, Male, 7 pcs)
- K




(Sleeve, Rubber, Large, 7 pcs)
- L

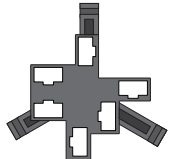


(Routing Clip, 1" Wraparound, 4 pcs)

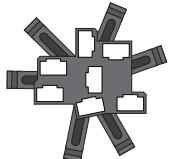
- M




(Clip, 1/2" offset, tape-on, 4 pcs)
- N




(Connector, 56Fx6, 1968 Ignition Switch, 1 pcs)
- P



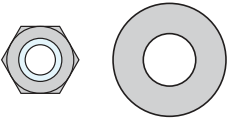
(Connector, 56Fx7, 1969 Ignition Switch, 1 pcs)
- Q




(Connector, 56Fx3, 59Fx1, Ignition #1, Black, 1970 Ignition Switch, 1 pcs)
- R



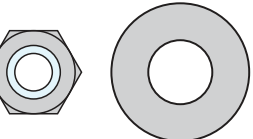
(Connector, 56Fx5, Ignition #2, Blue, 1970 Ignition Switch, 1 pcs)
- S




(10-32 Nylon Locking Nut & #10 Washer, 3 pcs each)
- T




(Screw, 10-32, 1/2", 3 pcs)
- U



(1/4-20 Nylon Locking Nut & 1/4" Washer, 2 pcs each)
- V

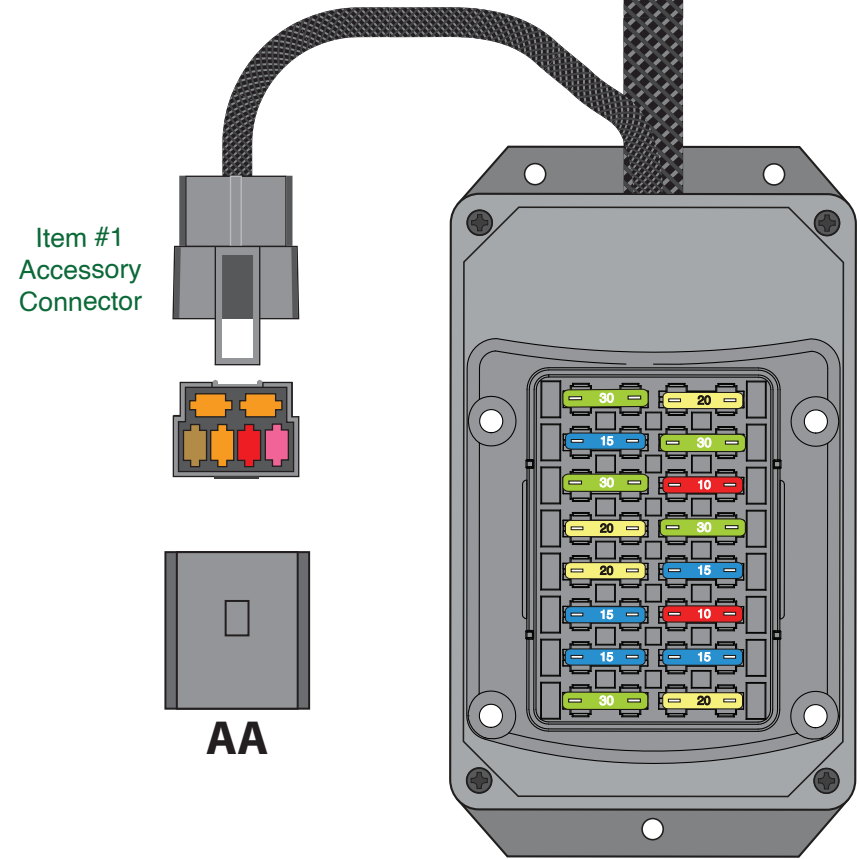
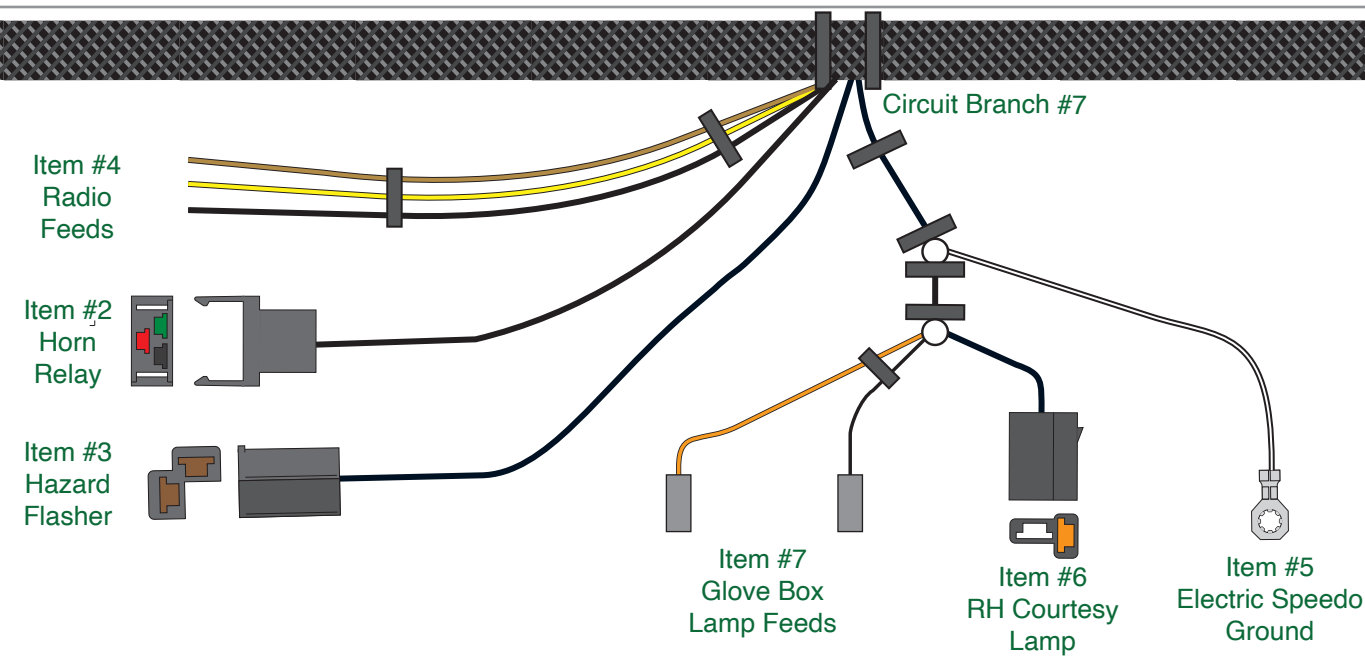


(Dash Light Jumper Harness, 1 piece)
- W



(Screw, 1/4-20, 1/2", 2 pcs)

510964 Dash harness
instructions:
Circuit Branch #7



1. Accessory Connector - Use connector **AA (Shown this page)** and included terminals (**Items “G” or “H” - Page 7**) for wires to be added to the in-dash accessory connector pigtail. The mating connector (**AA**) for these circuits is pre-inserted into the dash pigtail, and the terminals (**Items “G” or “H” - Page 7**) can be located in the dash harness loose piece kit along with the fuse panel mounting hardware.
NOTE: Not all installations will require the use of these connections. It has been provided as a convenient source for additional 12 volt power.

Wire	Printing	Fuse	Description
ORANGE	No Printing	7 - Hazard	Fused 12 volt BATTERY feed for accessories
TAN	FUEL PUMP	16 - Fuel Pump	Fused 12 volt IGNITION feed for fuel pump (may also be used to feed power to another ignition circuit)
ORANGE	POWER SEATS	3 - Power Seat	Fused 12 volt BATTERY feed for power seats (may also be used to feed power to another battery circuit)
RED	POWER LOCKS	5 - Power Locks	Fused 12 volt BATTERY feed for power locks (may also be used to feed power to another battery circuit)
PINK	POWER WINDOWS	8 - Power Window	Fused 12 volt IGNITION feed for power windows (may also be used to feed power to another ignition circuit)
ORANGE	12V BATTERY FUSED	1 - Batt - Spare	Fused 12 volt BATTERY feed for accessories

2. Horn Relay - Locate the 3 pin horn relay in the **510995** fuse and flasher kit, and plug into this connection.
- | | | | |
|-------|-------------------|---------|---|
| RED | No Printing | Unfused | Unfused 12 volt BATTERY feed to horn relay |
| BLACK | HORN RELAY GROUND | N/A | Ground Signal from Turn Signal Switch to Horn Relay |
| GREEN | HORN | N/A | 12 volt output from Horn Relay to Horn |

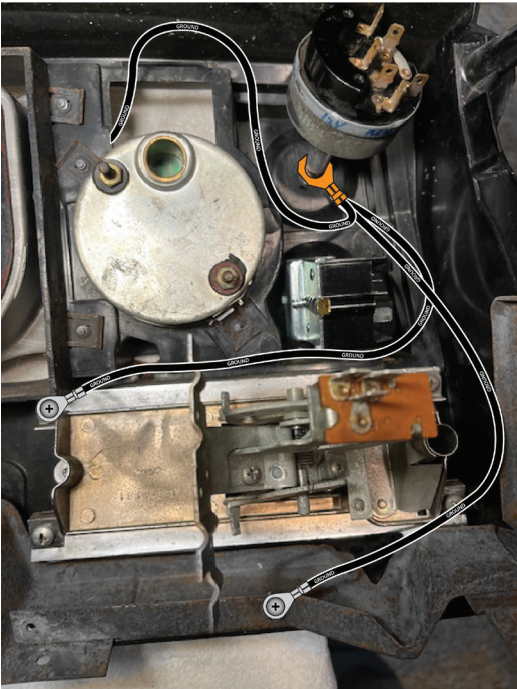
3. Hazard Flasher - Locate one of the 2 pin flashers in the **510995** fuse and flasher kit, and plug into this connection.
- | | | | |
|-------|------------------|------------|--|
| BROWN | TURN SW - HAZARD | 7 - Hazard | Fused 12 volt BATTERY feed for hazard flasher |
| BROWN | TURN SW - HAZARD | N/A | 12 volt output from hazard flasher to turn signal switch |

4. Radio Feeds - Use these wires to provide necessary power to the radio. Note: This kit does not include speaker wiring.
- | | | | |
|--------|-----------|-----------------|---|
| TAN | RADIO | 11 - Radio | Fused 12 volt switched ACCESSORY feed for radio |
| YELLOW | RADIO BAT | 2 - Clock/Radio | Fused 12 volt BATTERY feed for radio/clock function |
| BLACK | GROUND | N/A | Ground for radio |

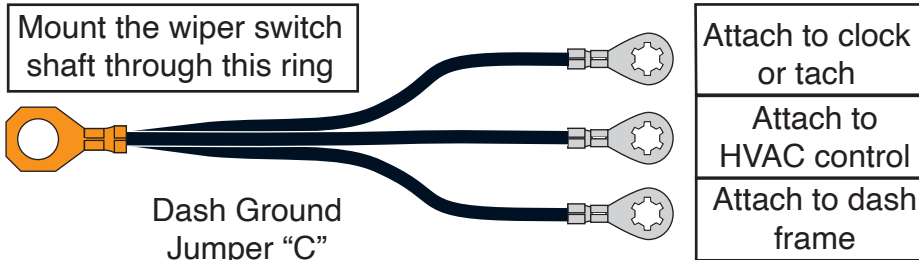
5. Electric Speedo Ground - This wire provides a dedicated ground circuit for the electric speedometer circuit in the instrument cluster connections. Attach this wire to a good ground point on the body, while making sure it is not shared with any other ground circuits to prevent interference.
- | | | | |
|----------------|---------------|-----|---|
| BLACK w/ WHITE | SPEEDO GROUND | N/A | Dedicated ground for electric speedometer |
|----------------|---------------|-----|---|

6. RH Courtesy Lamp - Locate one of the courtesy lamp extensions in the 500708 Courtesy Lamp Kit, and plug it into this connection. Follow the instructions in the 500708 kit to mount and complete wiring connections to the lamp assembly.
- | | | | |
|--------|-------------------|-------------------|---|
| ORANGE | 12V BATTERY FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed to courtesy lamp circuit |
| WHITE | CTSY GROUND | N/A | Switched GROUND from door jamb and headlight switches |

7. Glove Box Lamp Feeds - These wires provide power and ground to the glove box lamp.
- | | | | |
|--------|-------------------|-------------------|--|
| ORANGE | 12V BATTERY FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed to glove box lamp |
| BLACK | GROUND | N/A | GROUND circuit for glove box lamp |



NOTE: The original dash of the 1968-70 AMX and Javelin had flat copper trace assemblies on the back of them in several places that provided a ground to various switch assemblies. If your traces are damaged or are missing, we have provided “Dash Ground Jumper C” to use in it’s place. Without this jumper, or the copper traces in place, the functions on the affected switches that these attach to WILL NOT WORK properly! (See photo at left)



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1968-70 AMX/Javelin
510963

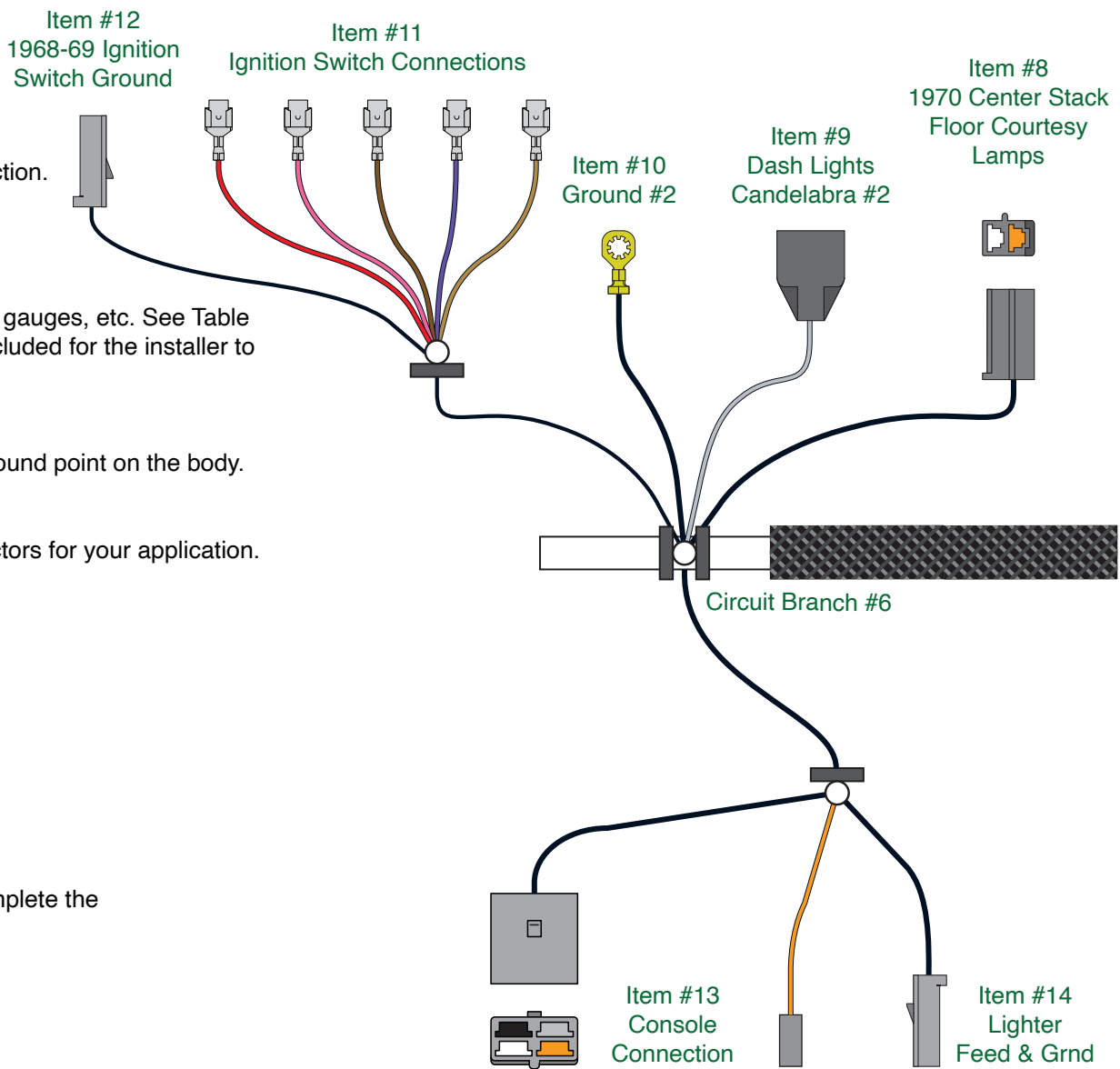
Classic Update Series

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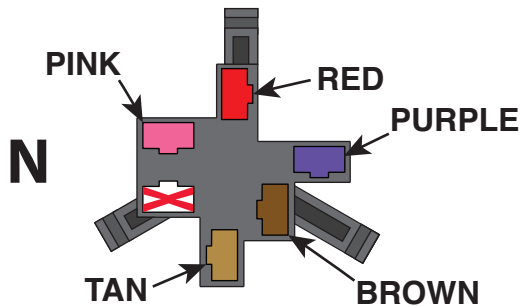
510964 Dash harness instructions:

Circuit Branch #6

8. 1970 Center Stack Floor courtesy Lamps - For 1970 vehicles ONLY. The original Center Stack Floor Courtesy Lamp assembly will plug directly into this connection.
- | Wire | Printing | Fuse | Description |
|--------|-------------------|-------------------|---|
| ORANGE | 12V BATTERY FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed to center stack lamps |
| WHITE | CTSY GROUND | N/A | Switched GROUND from door jamb and headlight switches |
9. Dash Lights Candelabra #2 - This connection has been provided to accommodate dash light requirements for accessories such as radios, ashtray, aftermarket gauges, etc. See Table 'A' at the lower right side of this page for what factory items can be connected to this candelabra. A dash light jumper harness (Item "V" - Page 7) has been included for the installer to connect aftermarket items to the candelabra.
- | | | | |
|------|-------------|-------------------|--|
| GRAY | DASH LIGHTS | 6 - Stop/Courtesy | Fused 12V dash light feed controlled by headlight switch |
|------|-------------|-------------------|--|
10. Ground #2 - This connection provides a ground source for the Lighter, Console Connection, Glove box Lamp, and Radio. Attach this ring terminal to a clean ground point on the body.
- | | | | |
|-------|--------|-----|---|
| BLACK | GROUND | N/A | GROUND circuit for Lighter, Console Connection, Glove Box Lamp, and Radio |
|-------|--------|-----|---|
11. Ignition Switch Connections - Follow the diagrams at the bottom of this page for instructions on plugging these wires into the appropriate ignition switch connectors for your application.
- | | | | |
|--------|-----------------------|-----|--|
| RED | No Printing | N/A | Constant BATTERY feed to ignition switch |
| PINK | No Printing | N/A | Switched IGNITION feed from ignition switch to fuse panel |
| BROWN | IGNITION SW ACCY | N/A | Switched ACCESSORY feed from ignition switch to fuse panel |
| BROWN | ALTERNATOR IGN | N/A | Switched ACCESSORY feed from ignition switch to alternator |
| PURPLE | NEUTRAL SAFETY SWITCH | N/A | Momentary START feed from ignition switch to neutral safety switch/starter |
| TAN | BRAKE LIGHT/SWITCH | N/A | Momentary START ground for brake warning lamp bulb check |
12. 1968-69 Ignition Switch Ground - For 1968-69 vehicles only. This connection provides a ground source for the 1968-69 ignition switches. Plug this connector onto the ground terminal on the ignition switch.
- | | | | |
|-------|--------|-----|--|
| BLACK | GROUND | N/A | GROUND circuit for 1968-69 ignition switches |
|-------|--------|-----|--|
13. Console Connection - Locate the Console Connection extension in the 510969 kit and plug into this connection. Follow the instructions in the 510969 kit to complete the connections that are part of this extension.
- | | | | |
|--------|-------------------|-------------------|--|
| ORANGE | 12V BATTERY FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed to console courtesy lamp circuit |
| WHITE | CTSY GROUND | N/A | Switched GROUND from console courtesy lamp to door jamb switches |
| GRAY | DASH LIGHTS | 6 - Stop/Courtesy | Fused 12V dash light feed for console PRDDL lamp |
| BLACK | GROUND | N/A | GROUND circuit for console PRNDL lamp |
14. Lighter Feeds - These wires provide power and ground to the lighter.
- | | | | |
|--------|-------------------|---------------------|---|
| ORANGE | 12V BATTERY FUSED | 4 - Cigar - Lighter | Fused 12 volt BATTERY feed to cigar lighter |
| BLACK | GROUND | N/A | GROUND circuit for cigar lighter |

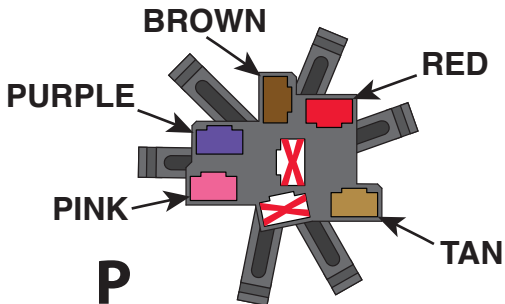


1968 Ignition Switch



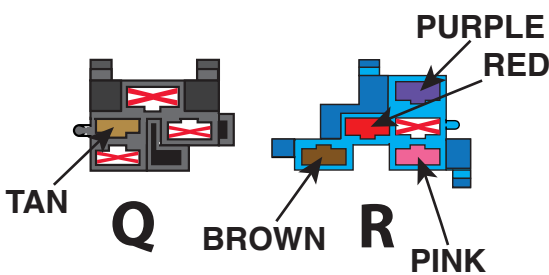
Wire Entry View Shown

1969 Ignition Switch



Wire Entry View Shown

1970 Ignition Switch



Wire Entry View Shown

Table 'A'
Dash Lights Candelabra #2 Connections (this page)
1968-70

Radio Illumination Light
Ashtray Illumination Light
Aftermarket Gauges



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510964 Dash harness instructions:

Circuit Branch #5

15. Turn Signal Switch - This 3 7/8" connector will plug directly into a factory 1970 turn signal switch. It will also plug directly into some aftermarket turn signal switch connections. For 1968 & 1969 vehicles, and some aftermarket turn signal switches, the installer will need to cut off the original half-moon connector, terminate new pack-con male terminals (**Item "F" - Page 7**), and insert the ends into the mating turn signal switch connector (**Item "E" - Page7**). See Table 'A' on this page for a termination guide.
- | Wire | Printing | Fuse | Description |
|----------|-------------------|-------------------|---|
| GRAY | DASH LIGHTS | 6 - Stop/Courtesy | Fused 12V dash light feed controlled by headlight switch for PRNDL illumination |
| BLACK | HORN RELAY GROUND | N/A | Relay ground to horn switch at steering column |
| LT. BLUE | LEFT FRONT TURN | N/A | Left Front Turn output from turn signal switch to left front turn assembly |
| DK. BLUE | RIGHT FRONT TURN | N/A | Right Front Turn output from turn signal switch to right front turn assembly |
| BROWN | TURN SW - HAZARD | 7 - Hazard | Hazard Switch feed from hazard flasher to turn signal switch |
| PURPLE | TURN SWITCH FEED | 13 - Turn | Turn Switch feed from turn signal flasher to turn signal switch |
| YELLOW | LEFT REAR TURN | N/A | Left Rear Turn output from turn signal switch to left rear turn assembly |
| GREEN | RIGHT REAR TURN | N/A | Right Rear Turn output from turn signal switch to right rear turn assembly |
| WHITE | BRAKE SW | N/A | Brake light feed from brake switch to turn signal switch |
16. Back-Up Switch - For a 1970 column shifted automatic car, plug this connector onto the back-up light switch connection of the Neutral Safety Switch located on the steering column. For a console shifted automatic or manual transmission car, see the detailed 510969 console connections on page 21 of this instruction set.
- | | | | |
|-----------|--------------------------|------------------|---|
| PINK | 12V IGNITION | 14 - Gauges, B/U | Fused IGNITION feed from fuse panel to back-up light switch |
| LT. GREEN | BACK UP LT SW --> LIGHTS | N/A | Switched output from back-up switch to back-up lamps |
17. Neutral Safety Switch - For a 1970 column shifted automatic car, plug this connector directly onto the NSS connection of the Neutral Safety Switch located on the steering column. For a 1968 or 1969 column shifted, or console shifted automatic car, see the detailed 510969 console connections on page 20 of this instruction set. For manual transmission vehicles, or vehicles not equipped with a neutral safety switch, plug the NSS Over Ride Jumper (**Item "B" - Page 7**) into this connection to complete the circuit.
- | | | | |
|--------|-----------------------|-----|--|
| PURPLE | NEUTRAL SAFETY SWITCH | N/A | Momentary START feed from ignition switch to neutral safety switch |
| PURPLE | STARTER SOLENOID - S | N/A | Output from neutral safety switch to starter solenoid |
18. A/T Kick Down Switch - For 1969/70 vehicles equipped with a pedal mounted A/T kick down switch, plug this connection onto the switch. For 1968 vehicles equipped with a carburetor mounted A/T kick down switch, locate A/T Kick Down Switch BYPASS jumper (**Item "A" - Page 7**), and plug it into this connection to complete the circuit.
- | | | | |
|---------------|--------------|------------------|--|
| PINK | 12V IGNITION | 14 - Gauges, B/U | Switched IGNITION feed from fuse panel to A/T Kick Down Switch |
| PINK w/ BLACK | No Printing | N/A | Output from A/T Kick Down Switch to A/T Kick Down Solenoid |
19. Brake Light Switch - Plug this connector to the brake light switch mounted on the brake pedal assembly.
- | | | | |
|----------|-------------------|-------------------|--|
| ORANGE | BRAKE SW | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed from fuse panel to brake light switch |
| WHITE | BRAKE SW | N/A | Switched output from brake light switch to turn signal switch |
| LT. BLUE | THIRD BRAKE LIGHT | N/A | Switched output from brake light switch to third brake light assembly (this wire will not be used in all applications) |

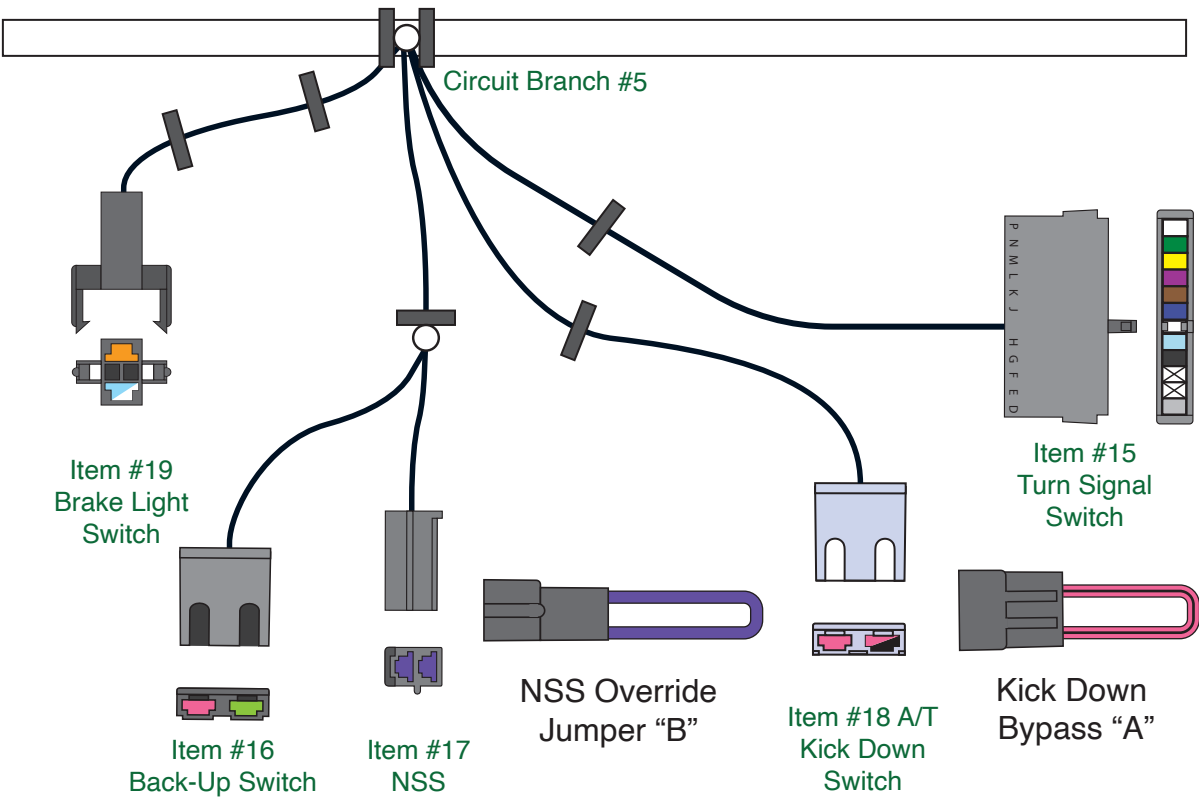
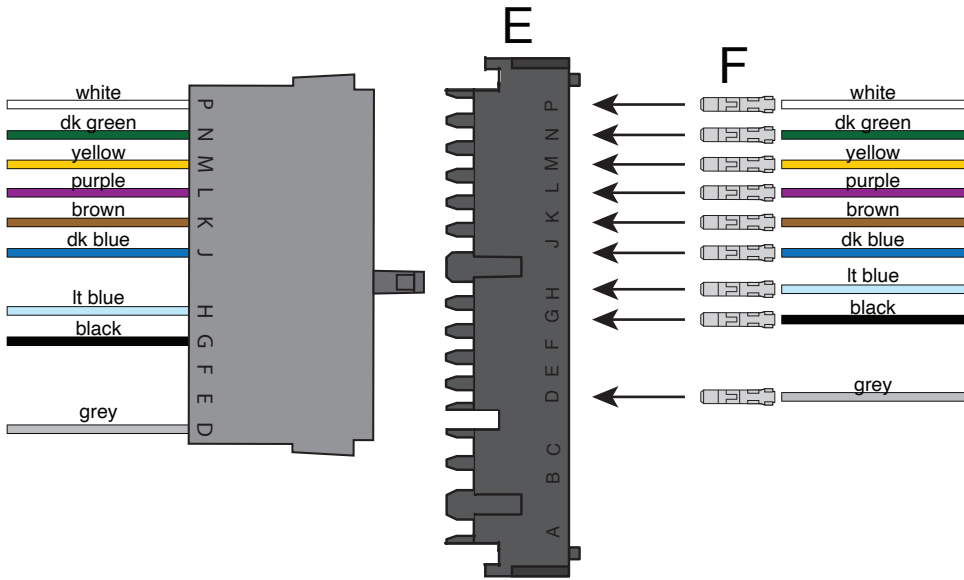


Table "B" - Turn Signal Switch Wiring

AAW TURN SIGNAL SWITCH CONNECTION

1968 or AFTERMARKET TURN SIGNAL SWITCH WIRING



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510964 Dash harness instructions:

Circuit Branches #3 and #4

20. Instrument Cluster Connector “A” - The corresponding extension harness that plugs into this connector can be found in the 510695 Instrument Cluster Kit. Follow the instructions on **pages 14-17** for details on completing the instrument cluster connections.

Wire	Printing	Fuse	Description
PINK	12V IGNITION	14 - Gauges, B/U	Fused IGNITION feed from fuse panel to instrument cluster disconnect
GRAY	DASH LIGHTS	6 - Stop/Courtesy	Fused 12V dash light feed controlled by headlight switch for cluster illumination
BLACK	GROUND	N/A	Ground circuit for instrument cluster
BROWN	REAR RUNNING LIGHTS	N/A	12V parking light feed for DIM function on aftermarket gauges
TAN w/ BLACK	No Printing	N/A	Ground signal from parking brake switch to instument cluster warning lamp

21. Instrument Cluster Connector “B” - The corresponding extension harness that plugs into this connector can be found in the 510695 Instrument Cluster Kit. Follow the instructions on **pages 14-17** for details on completing the instrument cluster connections.

WHITE	COIL --> TACH	N/A	Tachometer Signal wire from engine harness disconnect to instrument cluster
YELLOW	CLOCK BAT	2 - Clock/Radio	Fused 12 volt BATTERY feed from fuse panel for dash mounted clock
DK. BLUE	RIGHT DASH IND	N/A	Right Turn Signal output from turn signal switch for right turn signal indicator
LT. BLUE	LEFT DASH IND	N/A	Left Turn Signal output from turn signal switch for left turn signal indicator
LT. GREEN	HI BEAM INDICATOR LIGHT	N/A	Hi Beam output from dimmer switch for hi beam indicator
DK GREEN	WATER TEMP SENDER	N/A	Water Temperature signal wire from engine harness disconnect to instument cluster
DK. BLUE	OIL PRESSURE SENDER	N/A	Oil Pressure signal wire from engine harness disconnect to instrument cluster
TAN	BRAKE LIGHT/SWITCH	N/A	Brake Pressure signal wire from engine harness disconnect to instrument cluster
TAN	GAS GAUGE	N/A	Fuel Level signal wire from rear body disconnect to instument cluster

22. Instrument Cluster Connector “C” - The corresponding extension harness that plugs into this connector can be found in the 510695 Instrument Cluster Kit. Follow the instructions on **page 17** for details on completing the instrument cluster connections. This connection will only be used with an electric speedometer

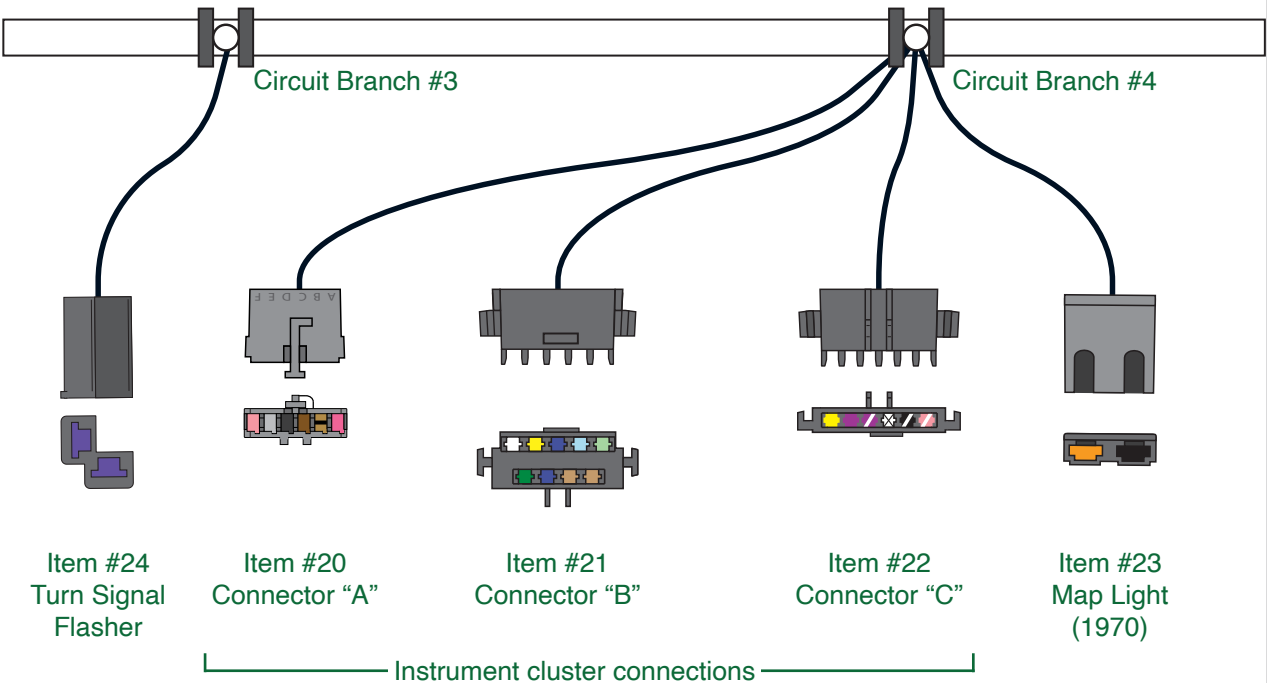
YELLOW	VSS GROUND	N/A	Ground circuit for vehicle speed sensor
PURPLE	VSS SIGNAL	N/A	Vehicle Speed Sensor signal wire
PURPLE w/ WHITE	VSS POWER	N/A	Switched ignition power for vehicle speed sensor
BLACK w/ WHITE	SPEEDO GROUND	N/A	Ground circuit for electronic speedometer
PINK w/ WHITE	SPEEDO POWER	16-Fuel Pump	Switched Ignition power for electronic speedometer

23. 1970 Map Light - The original 1970 Map Light assembly will plug directly into this connection.

ORANGE	12V BATTERY - FUSED	6 - Stop/Courtesy	Fused 12 volt BATTERY feed from fuse panel to map light
BLACK	GROUND	N/A	Ground circuit for map light

24. Turn Signal Flasher - Locate one of the 2 pin flashers in the 510995 fuse and flasher kit, and plug into this connection.

PURPLE	TURN SWITCH FEED	13 - Turn	Fused 12 volt IGNITION feed for turn signal flasher
PURPLE	TURN SWITCH FEED	N/A	12 volt output from turn signal flasher to turn signal switch



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510964 Dash harness instructions:

Circuit Branch #2

25. LH Courtesy Lamp - Locate one of the courtesy lamp extensions in the 500708 Courtesy Lamp Kit, and plug it into this connection. Follow the instructions in the 500708 kit to mount and complete wiring connections to the lamp assemblies.
- | | | | |
|--------|-------------------|-------------------|---|
| ORANGE | 12V BATTERY FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed to courtesy lamp circuit |
| WHITE | CTSY GROUND | N/A | Switched GROUND from door jamb and headlight switches |
26. Dash Lights Candelabra #1 - This connection has been provided to accommodate dash light requirements for accessories such as clock, tach, headlight switch marker, wiper switch marker, aftermarket gauges, etc. A dash light jumper harness (Item "V" - Page 7) has been included for the installer to connect aftermarket items to this candelabra. See "Table C" at the right on this page.
- | | | | |
|------|-------------|-------------------|--|
| GRAY | DASH LIGHTS | 6 - Stop/Courtesy | Fused 12V dash light feed controlled by headlight switch |
|------|-------------|-------------------|--|
27. Rear Body - The 510968 Rear Body Harness will plug into this connection.
- | | | | |
|-----------|--------------------------|-------------------|---|
| LT. BLUE | THIRD BRAKE LIGHT | N/A | Switched 12 volt output from brake switch to third brake light |
| LT. GREEN | BACK UP LT SW --> LIGHTS | N/A | Switched 12 volt output from back-up switch to back-up lights |
| WHITE | CTSY GROUND | N/A | Switched GROUND from door jamb and headlight switches to C-Pillar lamps |
| TAN | GAS GAUGE | N/A | Fuel Level signal wire from rear body disconnect to instrument cluster |
| BROWN | REAR RUNNING LIGHTS | N/A | 12 volt switched feed from headlight switch to rear running lights |
| YELLOW | LEFT REAR TURN | N/A | Switched feed from turn signal switch to left rear turn and stop lamp assembly |
| GREEN | RIGHT REAR TURN | N/A | Switched feed from turn signal switch to right rear turn and stop lamp assembly |
| ORANGE | 12V BATTERY - FUSED | 6 - Stop/Courtesy | Fused 12 volt BATTERY feed from fuse panel to C-Pillar lamps |
28. Wiper Switch - Plug the green and white wires onto the wiper switch as shown at the right. NOTE: Your original wiper motor has an assembled harness that is part of the motor assembly. That wiring will need to be reused "as-is" as it is not a serviceable harness. (Switch must be grounded to work. See the NOTE on page 8).
- | | | | |
|-----------|-------------|-----------|--|
| WHITE | WIPER FEED | 9 - Wiper | Fused ACCESSORY feed from fuse panel to wiper switch |
| Dk. GREEN | No Printing | N/A | Switched output from wiper switch to washer pump |
29. Headlight Switch - Plug this connector onto the 510428 Head Light Switch after it has been installed into the dashboard assembly.
- | | | | |
|--------|-----------------------------------|-------------------|--|
| RED | No Printing | N/A | 12 volt BATTERY feed for headlight circuit |
| GRAY | Dash Lights | N/A | Switched 12 volt output from headlight switch to dash illumination light circuits |
| BROWN | Park Lights / Rear Running Lights | N/A | Switched 12 volt output from headlight switch to park lights and rear running lights |
| YELLOW | DIMMER SW FEED | N/A | Switched 12 volt output from headlight switch to dimmer switch for headlights |
| ORANGE | 12V BATTERY - FUSED | 6 - Stop/Courtesy | 12 volt BATTERY feed for park lamp and dash lamp circuits |
| WHITE | CTSY GROUND | N/A | Switched GROUND for courtesy and C-Pillar lamps |
30. Headlight Switch Grounds - Plug the 56F connector onto the ground terminal blade on the headlight switch to allow operation of the courtesy lamp circuit. The female bullet terminal has been included to provide ground to an aftermarket wiper switch. The male bullet terminals, and large rubber sleeves (Items "J" & "K" - Page 7) have been included to complete this connection, if needed.
- | | | | |
|-------|--------|-----|---|
| BLACK | GROUND | N/A | GROUND circuit for the headlight switch |
|-------|--------|-----|---|
31. Heater Switch - Plug this connector onto the back of the heater control unit.
- | | | | |
|--------|----------------|-------------|--|
| BROWN | HEATER/AC FEED | 10 - Heater | Fused ACCESSORY feed from fuse panel to heater control |
| GREEN | No Printing | N/A | Low speed output from heater control to blower motor |
| ORANGE | No Printing | N/A | High speed output from heater control to blower motor |
32. Heater Switch Lamp - Your original heater switch lamp assembly will plug into this connection.
- | | | | |
|------|-------------|-----|---|
| GRAY | Dash Lights | N/A | Switched 12 volt output from headlight switch to dash lamp circuits |
|------|-------------|-----|---|
33. Ground #1 - This connection provides a ground source for the Headlight Switch, Ignition Switch, Instrument Cluster and 1970 Map Light. Attach this ring terminal to a clean ground point on the body.
- | | | | |
|-------|--------|-----|--|
| BLACK | GROUND | N/A | GROUND circuit for Headlight Switch, Ignition Switch, Instrument Cluster and 1970 Map Light. |
|-------|--------|-----|--|

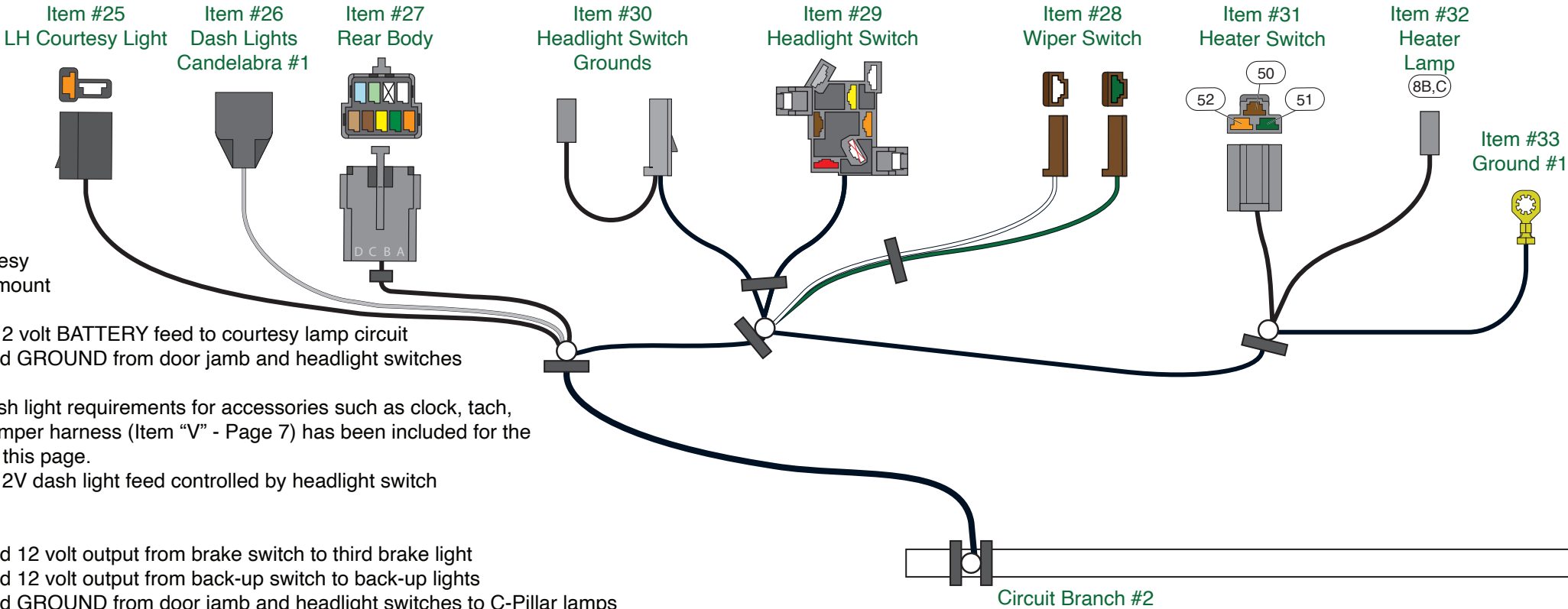
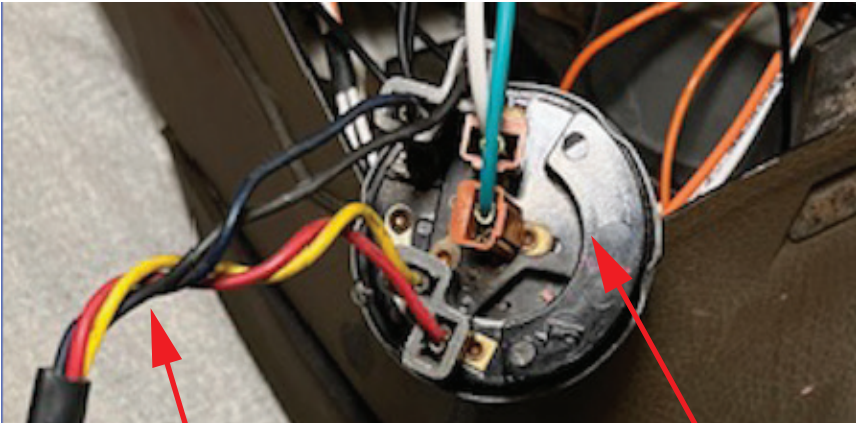


Table 'C'	
Dash Lights Candelabra #1 Connections (page 12)	
1968-69	1970
Clock or Tach Illumination Light (1968)	Headlight Switch Illumination Light
Clock Illumination Light (1969)	Wiper Switch Illumination Light
Aftermarket Gauges	Clock Illumination Light



Wiper motor harness from original wiper motor (not included with kit)

Original wiper/washer switch (not included with kit)



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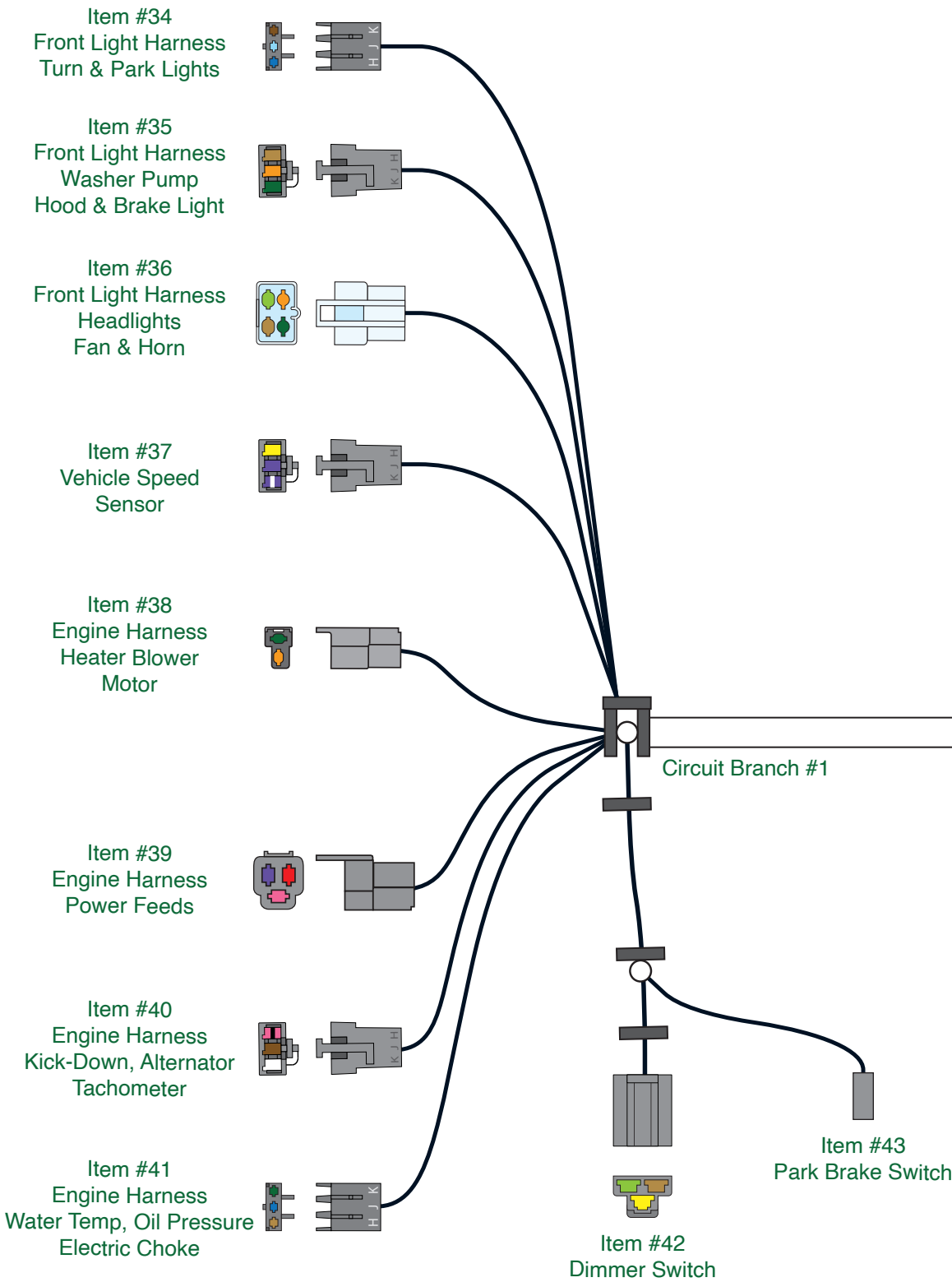
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510964 Dash harness instructions:

Circuit Branch #1

34. Front Light Harness - Turn & Park Lights - The Turn & Park Light extension “YY” from the 510967 Front Light Kit will plug into this connection.
BROWN PARK LIGHTS N/A Switched 12 volt output from headlight switch to park light assemblies
LT. BLUE LEFT FRONT TURN N/A Switched 12 volt output from turn signal switch to left front turn signal assembly
DK. BLUE RIGHT FRONT TURN N/A Switched 12 volt output from turn signal switch to right front turn signal assembly
35. Front Light Harness - Washer Pump, Hood & Brake Light - The Washer Pump, Hood & Brake Light extension “ZZ” from the 510967 Front Light Kit will pug into this connection.
TAN BRAKE LIGHT/SWITCH N/A Brake Pressure signal wire from engine harness disconnect to instrument cluster
ORANGE 12V BATTERY - FUSED 6 - Stop/Courtesy Fused 12 volt BATTERY feed from fuse panel to hood lamp assembly
DK. GREEN No Printing N/A Switched 12 volt output from wiper switch to washer pump
36. Front Light Harness - Headlights, Fan & Horn - The Headlights, Fan & Horn extension “XX” from the 510967 Front Light Kit will plug into this connection.
LT. GREEN HEADLIGHT - HI BEAM N/A Switched 12 volt output from dimmer switch to headlight high beam circuit
TAN HEADLIGHT - LOW BEAM N/A Switched 12 volt output from dimmer switch to headlight low beam circuit
DK. GREEN HORN N/A Switched 12 volt output from horn relay to horn assembly
ORANGE ELECTRIC FAN 12 - Engine Fan Switched ACCESSORY feed from fuse panel to electric fan relay
37. Vehicle Speed Sensor - The VSS extension from the 510730 VSS Connection Kit will plug into this connection. (Only used with electronic speedometers)
YELLOW VSS GROUND N/A Ground circuit for vehicle speed sensor
PURPLE VSS SIGNAL N/A Vehicle Speed Sensor signal wire
PURPLE w/ WHITE VSS POWER N/A Switched ignition power from instrument cluster for vehicle speed sensor
38. Engine Harness - Heater Blower Motor - The Heater Blower Motor extension “BB” from the 510966 Engine Kit will plug into this connection.
GREEN No Printing N/A Low speed output from heater control to blower motor
ORANGE No Printing N/A High speed output from heater control to blower motor
39. Engine Harness - Power Feeds - The Power Feed Extension harness “AA” from the 510966 engine Kit will plug into this connection.
PURPLE STARTER SOLENOID - S N/A Output from neutral safety switch to starter solenoid
RED 12V BATTERY N/A 12 volt BATTERY feed to fuse panel from Mega-Fuse Assembly
PINK IGNITION FEED - COIL N/A 12 volt IGNITION feed from ignition switch to ignition coil
40. Engine Harness - Kick-Down, Alternator, Tachometer - The Kick-Down, Alternator, Tachometer extension “DD” from the 510966 Engine Harness will plug into this connection.
BROWN ALTERNATOR IGNITION N/A Switched ACCESSORY feed from ignition switch to alternator
WHITE COIL --> TACH N/A Tachometer Signal wire from engine harness disconnect to instrument cluster
PINK w/ BLACK No Printing N/A Output from A/T Kick Down Switch to A/T Kick Down Solenoid
41. Engine Harness - Water Temp, Oil Pressure, Electric Choke - The Water Temp, Oil Pressure, Electric Choke extension “CC ” from the 510966 Engine Kit will plug into this connection.
DK GREEN WATER TEMP SENDER N/A Water Temp signal wire from engine harness disconnect to instument cluster
DK. BLUE OIL PRESSURE SENDER N/A Oil Pressure signal wire from engine harness disconnect to instrument cluster
TAN ELECTRIC CHOKE 15 - Electric Choke 12 volt IGNITION feed from fuse panel to electric choke
42. Dimmer Switch - Plug this connection onto the included floor mounted headlight dimmer switch (500042).
YELLOW DIMMER SW FEED N/A Switched output from headlight switch to dimmer switch
LT. GREEN HEADLIGHT - HI BEAM N/A Switched 12 volt output from dimmer switch to headlight high beam circuit
TAN HEADLIGHT - LOW BEAM N/A Switched 12 volt output from dimmer switch to headlight low beam circuit.
43. Park Brake Switch - Plug this connection onto the male bullet terminal of the parking brake lamp switch mounted on the park brake pedal assembly.
TAN w/ BLACK No Printing N/A Ground signal from the parking brake cluster telltale light to the Park Brake Switch



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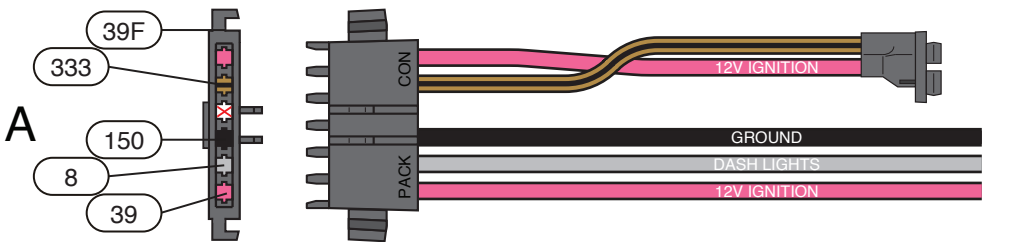
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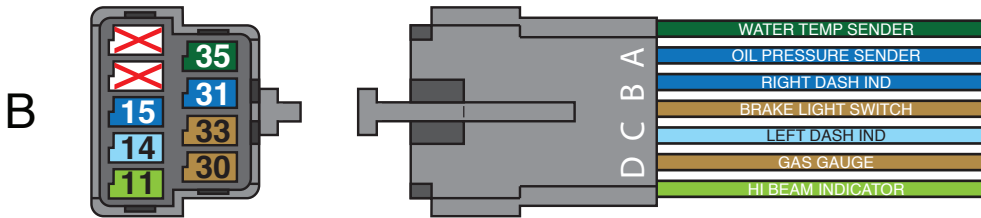
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510965 Gauge Cluster harness instructions:

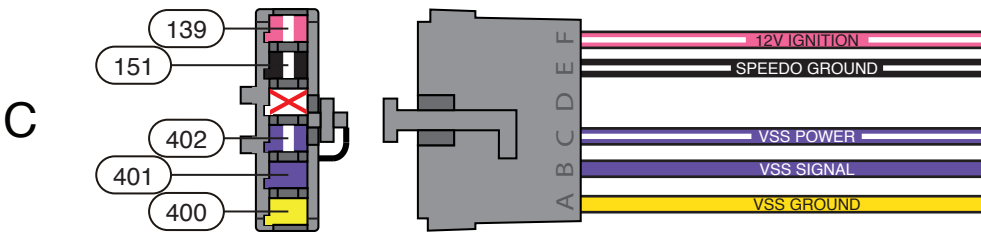
Below are the harness extensions, terminals, and connector bodies included in the Gauge Cluster Harness 510965 and Loose Piece bag. These will be used to complete the gauge cluster connections and are referenced by the letters and descriptions below from this point forward.



(Harness Extension, Gauge Cluster, Power/Ground, 1 piece)



(Harness Extension, Gauge Cluster, Sending Units/Indicators, Brake Warning, 1 piece)



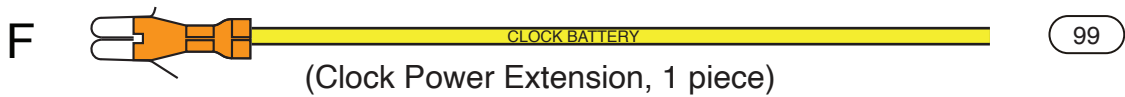
(Harness Extension, Electronic Speedometer, 1 piece)



(Clock Illumination Extension, 1 piece)



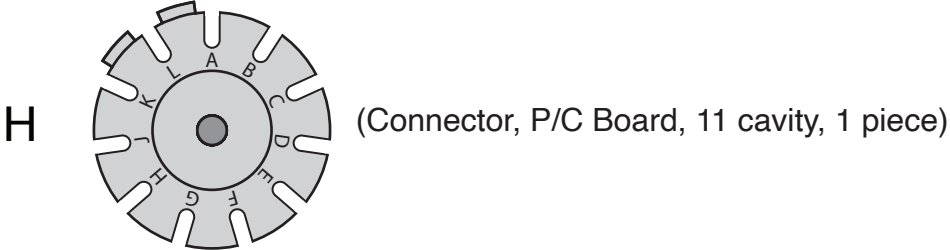
(Aftermarket Gauges DIM Feed Extension, 1 piece)



(Clock Power Extension, 1 piece)



(Tachometer Signal Wire Extension, 1 piece)



(Connector, P/C Board, 11 cavity, 1 piece)



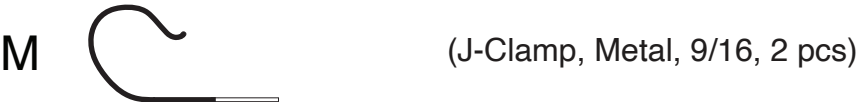
(Terminal, Pin, P/C Board, 13 pcs)



(Terminal, Ring, M5, 4 pcs)

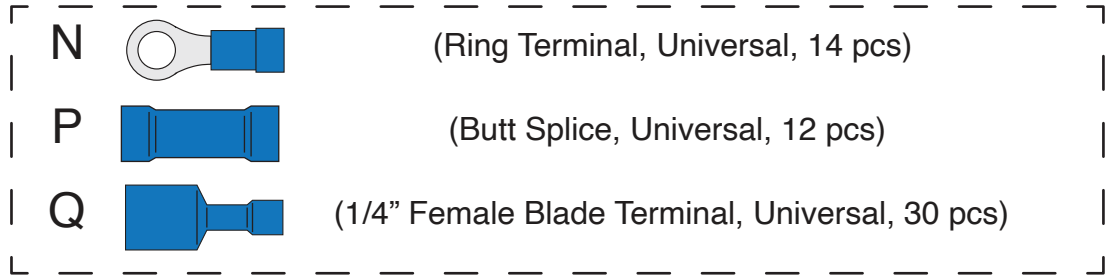


(Sleeve, Rubber, 4 pcs)

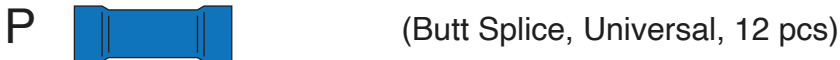


(J-Clamp, Metal, 9/16, 2 pcs)

These connectors will be located in the 92965220 aftermarket gauge connection kit and will only be used with aftermarket/universal gauges.



(Ring Terminal, Universal, 14 pcs)



(Butt Splice, Universal, 12 pcs)



(1/4 inch Female Blade Terminal, Universal, 30 pcs)



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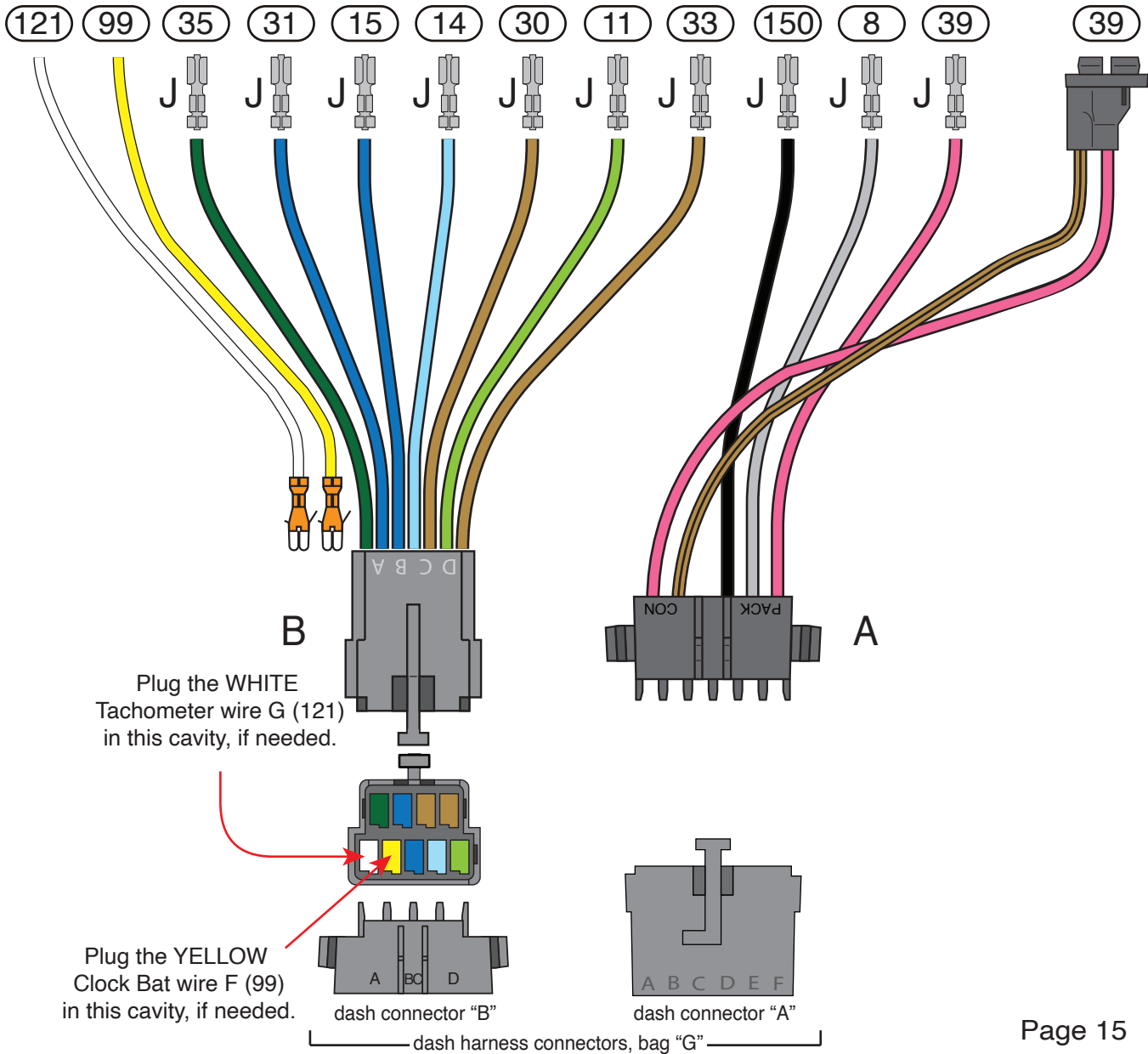
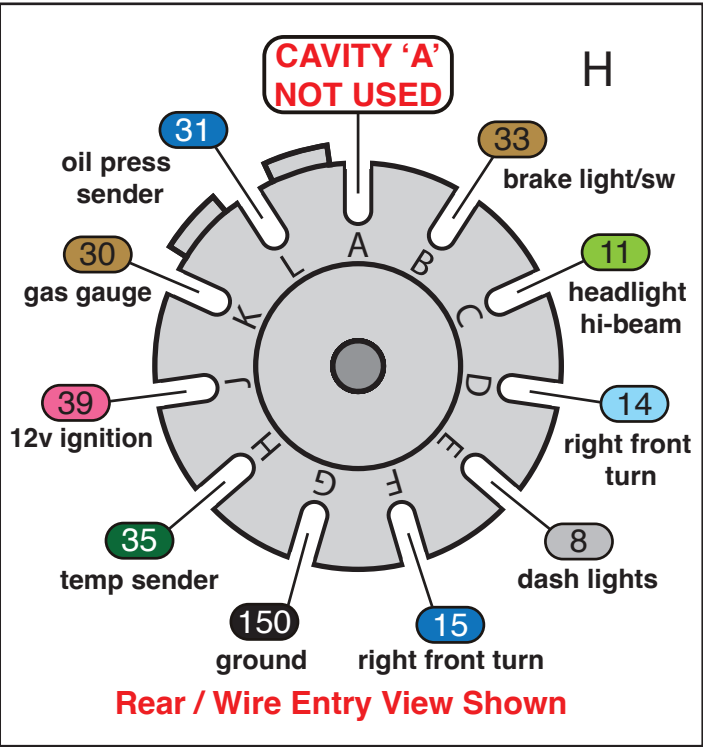
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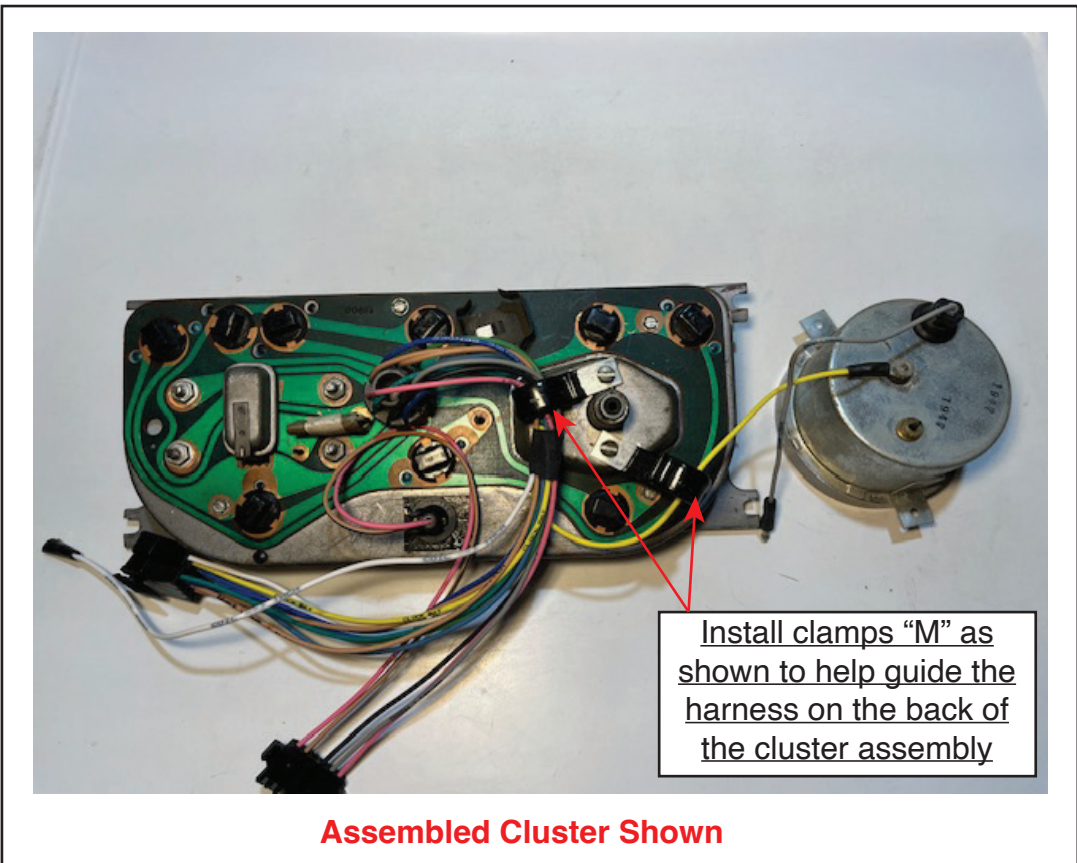
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510965 Gauge Cluster harness instructions:

- 1. Using the diagram on this page, cut and strip the wires to the appropriate length. Crimp pin terminal (Item “J” – Page 14) onto the open end of each wire, then insert the terminated wire into the correct cavity of the printed circuit board connector (Item “H” – Page 14). **NOTE 1:** Connector “H” is a pull-to-seat style connector, so extend the terminal and wire past the end of the connector, slip the wire down into the appropriate slot of the connector, then pull the assembled wire back into the connector to seat the terminated wire into the connector. Refer to the chart on this page for the cavity guide. Once complete, plug the connector assembly onto the printed circuit board. **NOTE 2:** Notice the installation of Clamps “M” in the photo at the lower right .
- 2. Next, install a #257 flashing bulb (not included) into the Parking Brake Warning lamp socket. Then, insert the socket into the matching lamp socket opening in the cluster housing.
- 3. Refer to Page 16 for detailed instructions on connecting the tachometer and clock (99 & 121 wires), if your vehicle is equipped with these components.



WIRE ID CHART		
#	Label	Cavity
8	DASH LIGHTS	E
9	PARK LIGHTS	N/A
11	HEADLIGHT - HI BEAM	C
14	LEFT FRONT TURN	D
15	RIGHT FRONT TURN	F
30	GAS GAUGE	K
31	OIL PRESSURE SENDER	L
33	BRAKE LIGHT/SWITCH	B
35	WATER TEMP SENDER	H
39	12V IGNITION	J
99	CLOCK BAT	N/A
121	COIL --> TACH	N/A
150	GROUND	G



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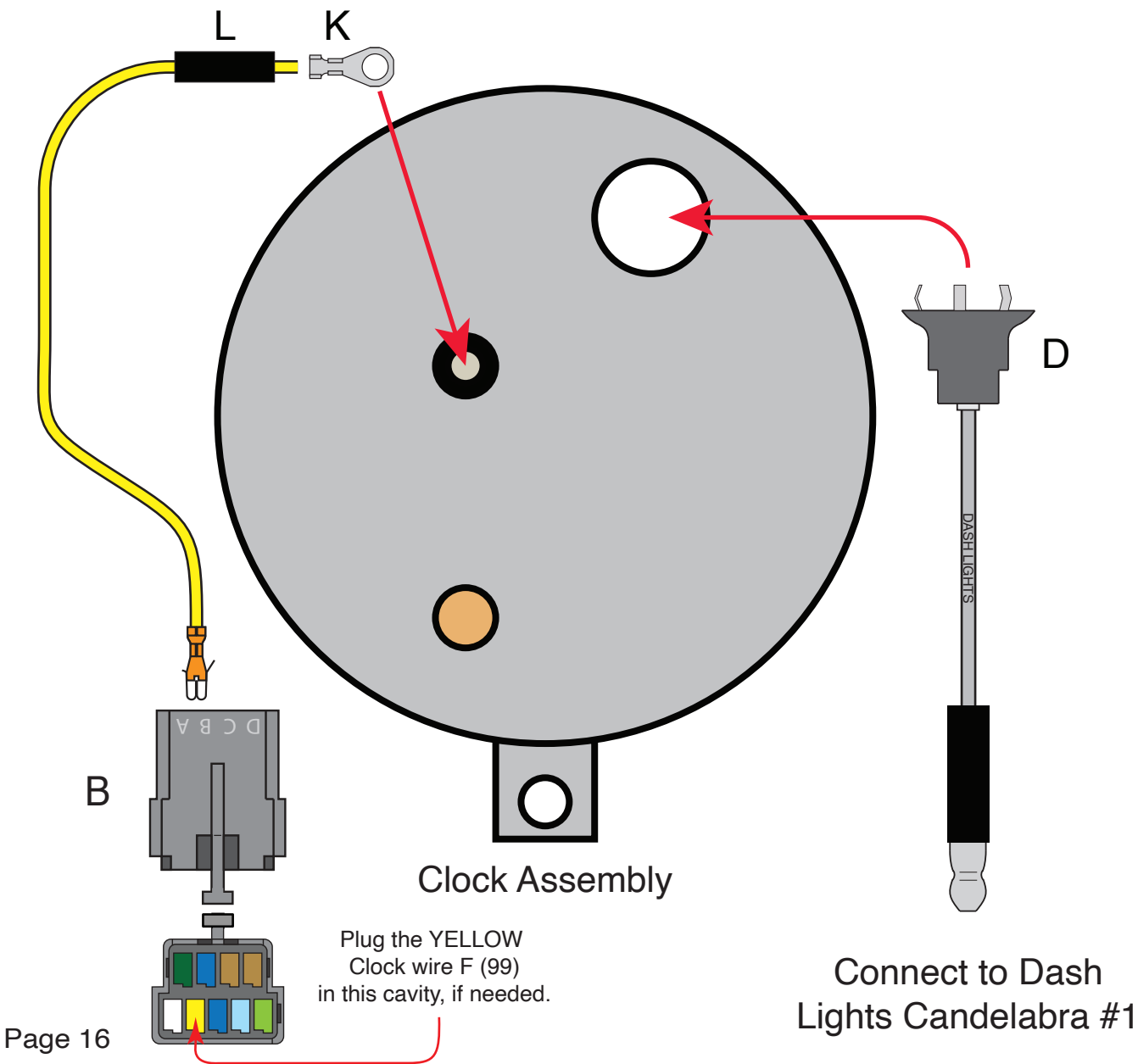
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510965 Gauge Cluster harness instructions:

Clock Connections:

Cut the YELLOW “Clock Bat” wire “F” to the appropriate length. Slide a rubber sleeve (Item “L” – see Page 14) over the wire, then crimp an M5 ring terminal (Item “K” – see Page 14) onto the end. Attach the terminated wire to the power input stud on the clock assembly.

Locate the Clock Illumination Extension (Item “D” – see Page 14). Install a #1816 bulb (not included) into the socket, then plug the socket into the designated opening on the clock assembly. Plug the opposite end of the extension into Dash Lights Candelabra #1, located at Circuit Branch #2 of the 510964 dash harness assembly (refer to Page 12).

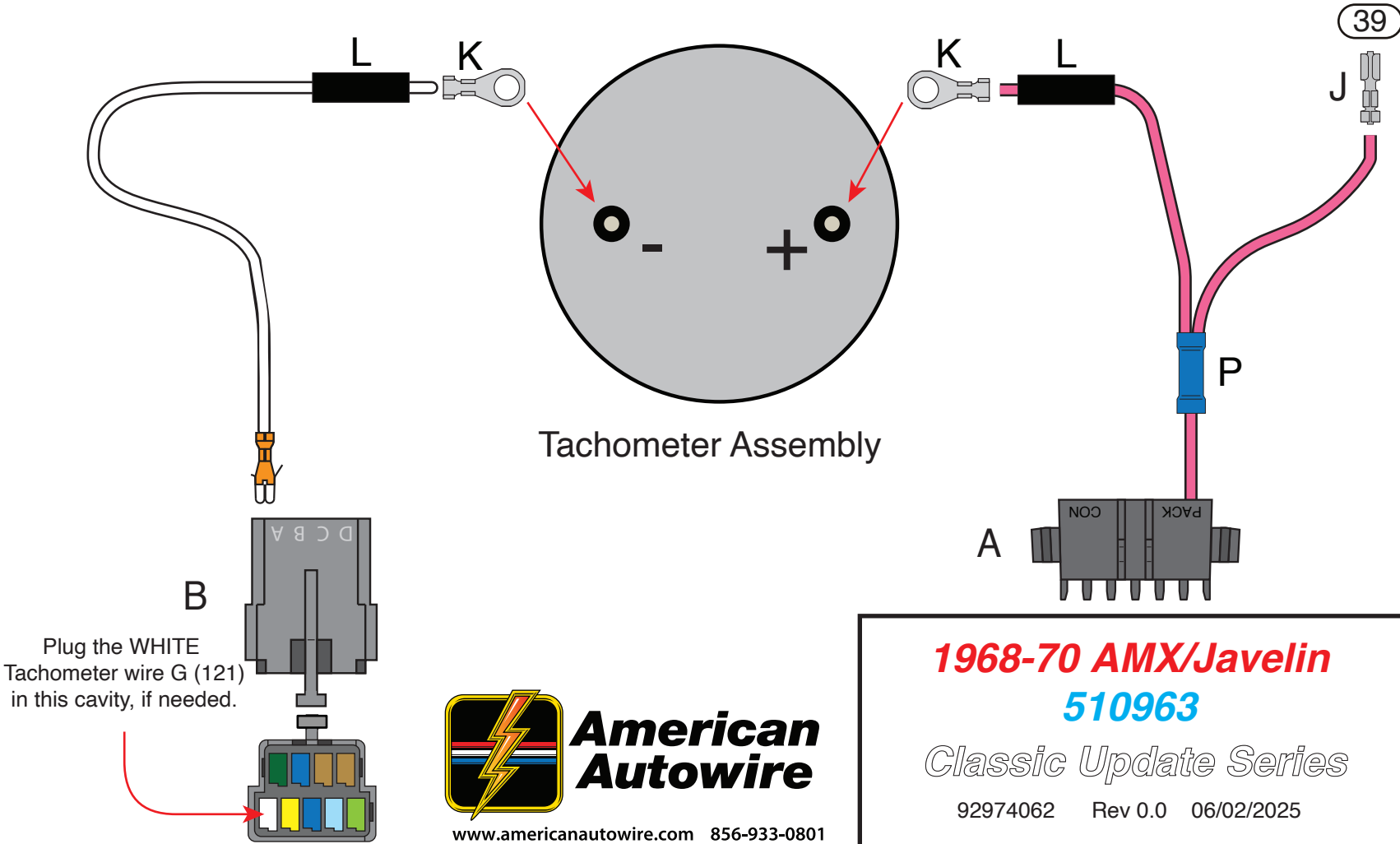


Tachometer Connections:

NOTE: This Classic Update kit WILL NOT support the use of a FACTORY ORIGINAL tachometer. In order to utilize the original tachometer, it will need to be upgraded or retro-fitted to a later style movement where the pulse post on the tach is wired to the negative side of the coil. Any aftermarket tachometer should function with no issues. Check the manufacturers documentation for further information.

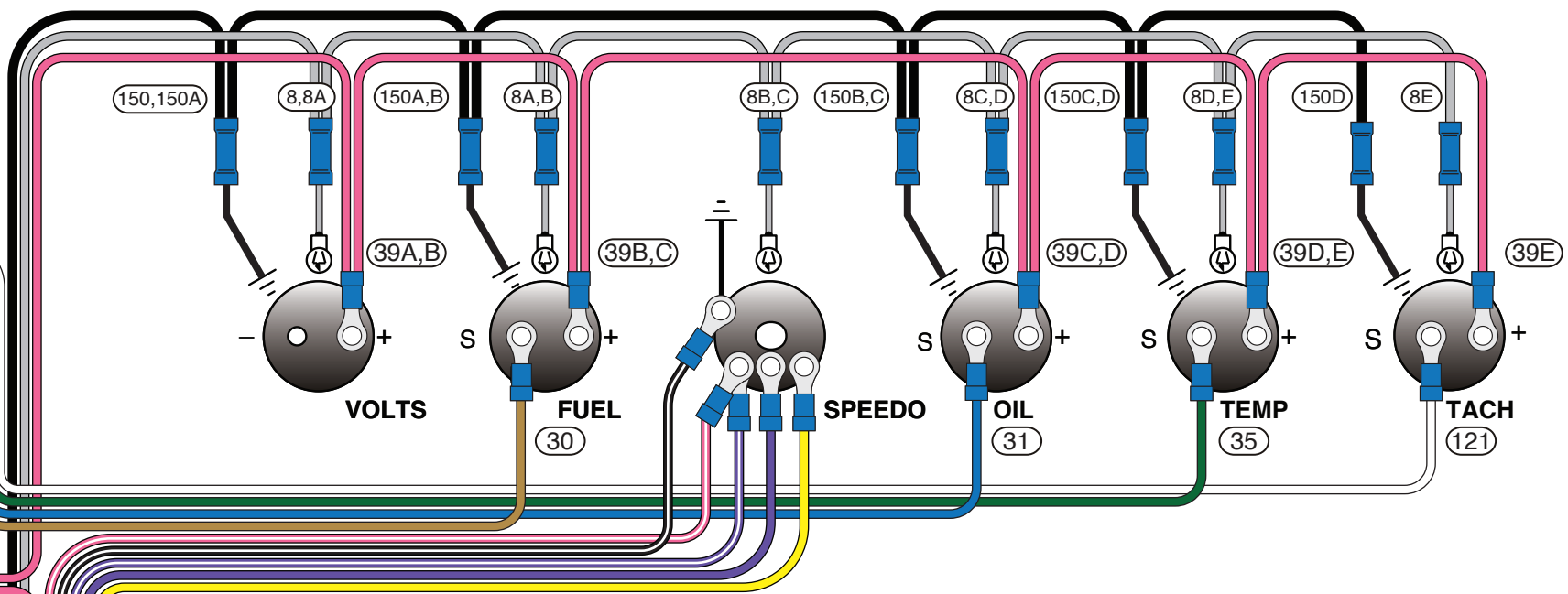
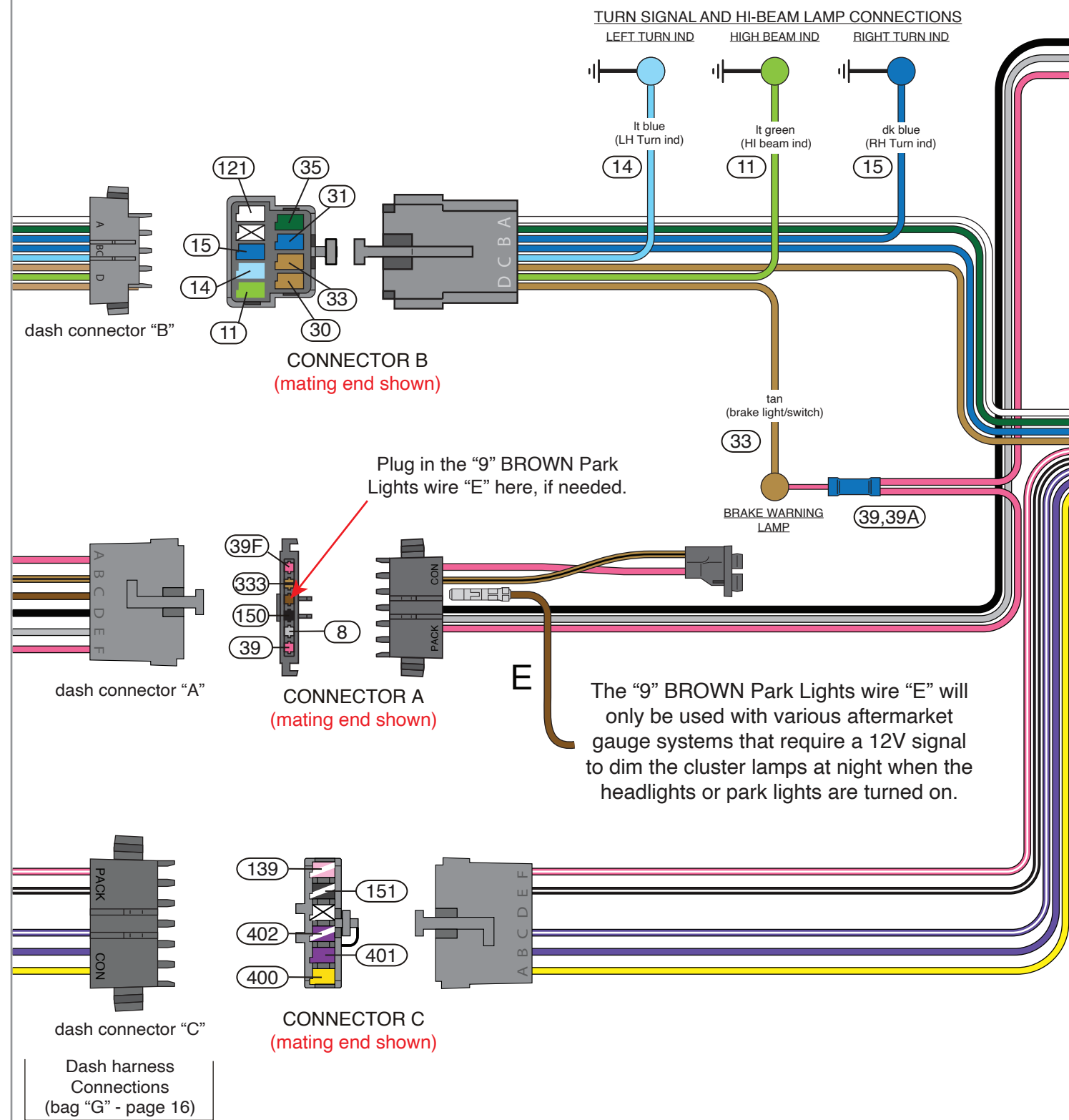
Locate the WHITE “Coil --> Tach” wire, route it to the tach input stud on the tachometer and cut to length. Slide a rubber sleeve (Item “L” – see Page 14) over the wire, then crimp an M5 ring terminal (Item “K” – see Page 14) onto the end. Attach the terminated wire to the (-) pulse stud of the tachometer.

Route a length of PINK “12V Ignition” wire to the power input stud on the tachometer and cut to length. Slide a rubber sleeve (Item “L” – see Page 14) over the wire, then crimp an M5 ring terminal (Item “K” – see Page 14) onto the end. Attach the terminated wire to the power input stud on the tachometer. Splice the other end of the PINK wire for the tachometer to the PINK feed wire in the instrument cluster disconnect using a universal butt splice (Item “P” - Page 14) to complete the power feed for this circuit.



510965 Gauge Cluster harness instructions:
Aftermarket Gauge Connections

Shown below is a typical **AFTERMARKET GAUGE** installation procedure. Follow the manufacturer's instructions for best results. Ring terminal and butt splice connections are show. Blade terminal connectors are also included in the event they are required. Aftermarket gauge connections for blade terminals should be similar.



Electronic Speedometer Connections:

Below are some general instructions for hooking up an electric speedometer. This connector and these instructions will ONLY be used in the event that you are utilizing an aftermarket electric speedometer. If your car does NOT have an electric speedometer, this connection will NOT be used and should not be plugged onto your dash harness. It is best to consult the speedometer manufacturer's instructions if you have any questions.

Yellow (400)	VSS Ground	Connect to VSS neg. "--" on speedometer.
Purple (401)	VSS Signal	Connect to VSS input on speedometer.
Purple/White (402)	VSS Power	Connect to 12V power on speedometer.
Black/White (151)	Speedo Ground	Connect to ground on speedometer.
Pink/White (139)	Speedo Power	Connect to 12v power on speedometer.

NOTE: This wire will double onto the same stud as the purple/white VSS Power wire from above.



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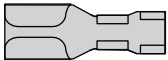



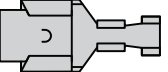
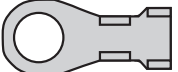



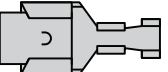
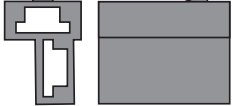
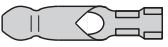

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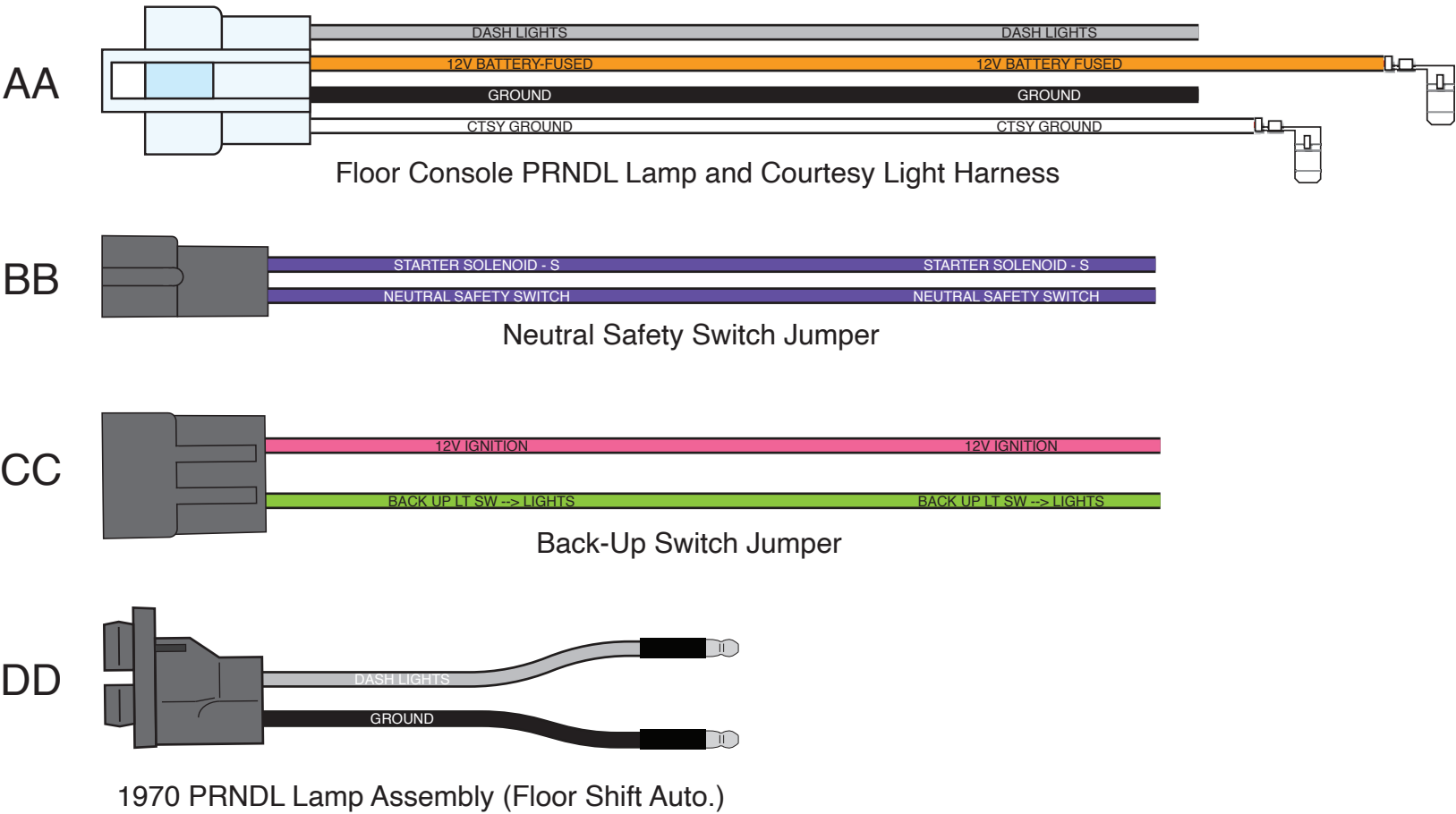
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510969 Console harness instructions

Below are the harness extensions, terminals, and connector bodies included in the 510969 Console Harness and Loose Piece bag. These will be used to complete the console connections and are referenced by the letters and descriptions below from this point forward.

- A  (Terminal, Bullet, Female, 6 pcs)
- B  (Sleeve, Rubber, Large, 6 pcs)
- C  (Connector, 56Fx2, 1pc)
- D  (Sleeve, Rubber, Small, 6 pcs)
- E  (Terminal, 56F, Single, 3 pcs
larger crimp wings than K)
- F  (Terminal, Ring, M5, 3 pcs)
- G  (Connector, 58Fx1, 2 pcs)
- H  (Terminal, 58F, Single 3 pcs)
- J  (Connector, 56Fx2, 1 pc)
- K  (Terminal, 56F, Single, 6 pcs)
- L  (Connector, 56Fx2, 1 pcs)
- M  (Terminal, Bullet, Male, 6 pcs)
- N  (Grommet, 2-wire, 1 pc)



510969 Console harness instructions

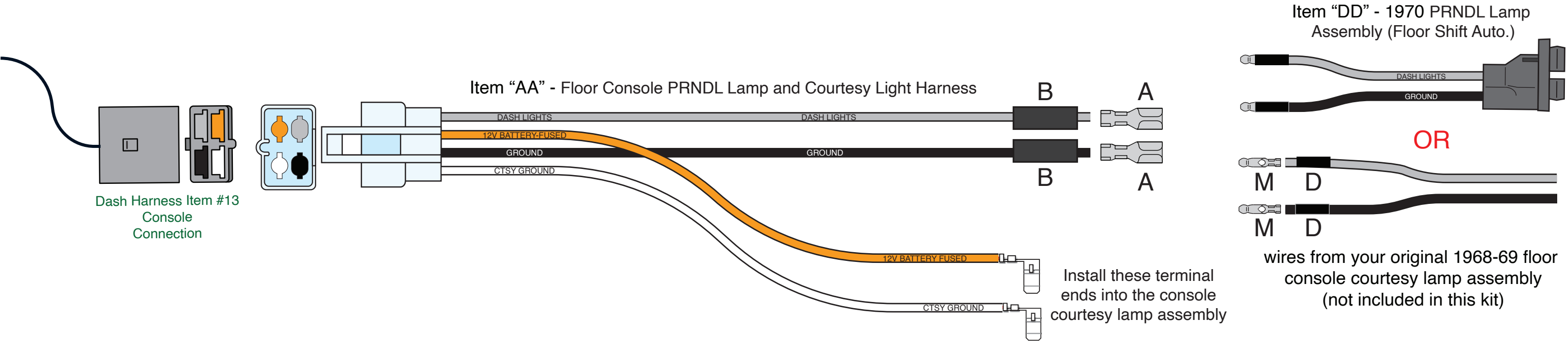
Locate the console connection (510964 Dash Harness Circuit Branch #6, page 9, Item #13) and plug the Floor Console extension (Item “AA” - Page 18) into this connection.

Console Courtesy Lamp Connections:

Route the ORANGE “12V Battery - Fused” and WHITE “CTSY Ground” wires to the floor console courtesy lamp. Install the terminal ends of these wires into the floor console, and install a #211 bulb (not included) into the new terminal assemblies to complete this step.

Floor Shifter PRNDL Lamp:

Route the GRAY “Dash Lights” & BLACK “Ground” wires to the PRNDL illumination lamp area at the shifter, cut to length, slide the large rubber sleeves (Item “B” - Page 18) onto the end of each of the wires, crimp a female bullet terminal (Item “A” - Page 18) onto the end of the wires, then slide the rubber sleeves over the terminals to insulate the connection. For the 1970 models, plug the GRAY and BLACK wires from the “DD” 1970 PRNDL Lamp Assembly wire with the male bullet terminals into the connections that you just created. For the 1968-69 models, the PRNDL lamp is an assembled lamp unit, cut the ends off of the PRNDL lam assembly leads, slide the small rubber sleeves (Item “D” - Page 18) onto the end of each of the wires, crimp a male bullet terminal (Item “M” - Page 19) onto the end of the wires. Plug the leads on the 1968-69 PRNDL lamp assembly into the female bullet terminals “A” and sleeves “B” on the gray and black wires as shown below.



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510969 Console harness instructions

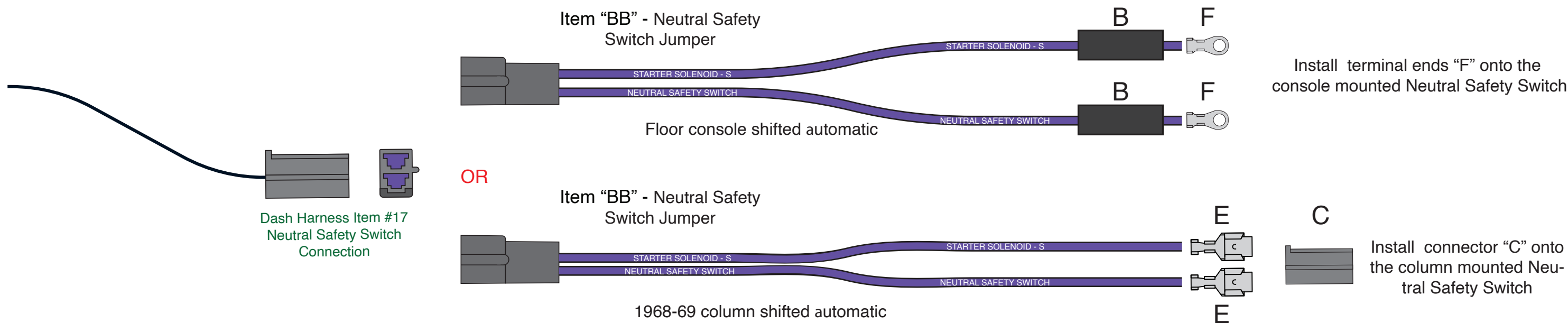
Locate the neutral safety connection on the 510964 Dash Harness, Circuit Branch #5, page 10, Item #17.

Vehicles equipped with a manual transmission: Refer to the note on Item #17 of the 510964 Dash Harness section of these instructions for the details about installing the NSS bypass jumper, and then proceed to the back-up lamp switch connection instructions on the next page.

Neutral Safety Switch Connections (Automatic Transmissions ONLY):

NOTE: 1970 column mounted automatic cars DO NOT use the NSS jumper (Item “BB” - Page 18). The dash connections will plug directly onto the column mounted NSS. For all floor shifted automatic cars, or 1968-69 column shift automatic cars, plug the NSS Jumper (Item “BB” - Page 18) onto the dash harness, Item #17 connection. For floor shifted automatic cars, route the PURPLE wires to the neutral safety switch, cut to length, slide a large rubber sleeve (Item “B” - Page 18) on the end of each wire, crimp a M5 ring terminal (Item “F” - Page 18) on the end of each wire, slide the rubber sleeve over the crimped portion of the terminal F, and attach to the threaded terminals on the neutral safety switch. For the 1968-69 column shifted cars, route the PURPLE wires down the column to the NSS, cut to length, crimp a female terminal (Item “E” - Page 18) on the end of each wire, plug the wires into the female connector (Item “C” - Page 18), and plug onto the neutral safety switch at the base of the column.

NOTE: The neutral safety switch is a simple open/close mechanism. The indexing/polarity of the purple wires does not matter for this application.



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510969 Console harness instructions

Locate the back up switch connection 510964 Dash Harness, Circuit Branch #5, page 10, Item #16.

NOTE 1: The back up switch is a simple open/close circuit. The indexing/polarity of the PINK and LT. GREEN wires do not matter for this application. Follow the diagram below to complete the connections to the back-up switch. Note that there are several different scenarios, so please choose the proper application for your car.

NOTE 2: 1970 column mounted automatic cars DO NOT use this jumper. The dash connections will plug directly onto the column mounted NSS. For all other applications, plug the Back-Up Switch Jumper (Item “CC” - Page 18) onto the dash connection at Branch #5, page 10, item #16, and follow the detailed instructions below:

Floor Mounted A/T Shifter:

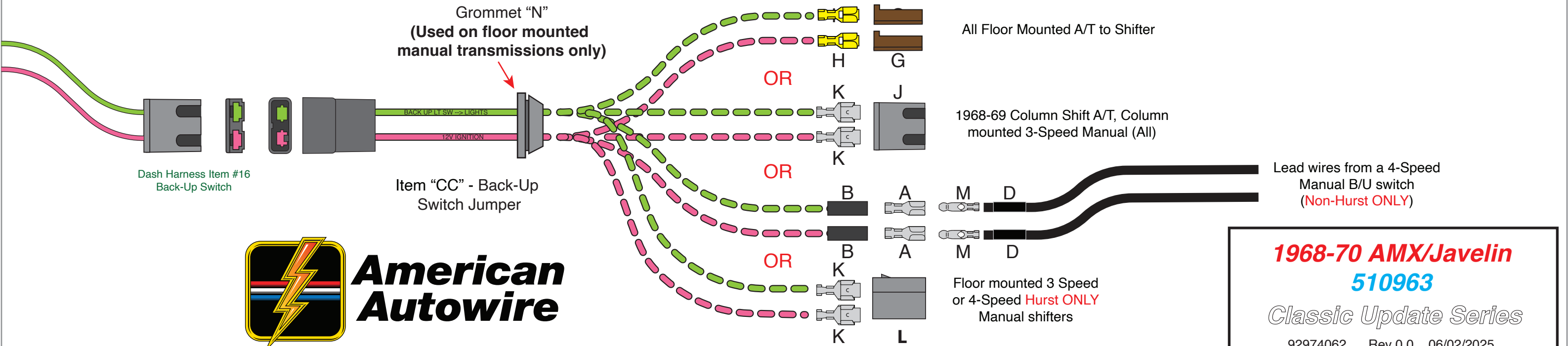
Route the PINK “12V IGNITION” and LIGHT GREEN “BACK UP LT SW --> LIGHTS” wires from the Back-Up Switch Jumper (Item “CC”) to the back up switch, and cut to length. Crimp a 58F terminal (Item “H” - Page 18) on the end of each wire, insert each terminal into a 58Fx1 connector (Item “G” - Page 18), and plug the newly terminated connectors onto the floor mounted back up switch .

1968-69 Column Shift A/T, 3-Speed Column Mounted Manual (All):

Route PINK “12V IGNITION” and LIGHT GREEN “BACK UP LT SW --> LIGHTS” wires from the Back-Up Switch Jumper to the back up switch down at the base of the steering column, and cut to length. Crimp a 56F terminal (Item “K” - Page 18) on the end of each wire, insert them into the 56Fx2 connector (Item “J” - Page 18), and plug the newly terminated connector onto the back up switch.

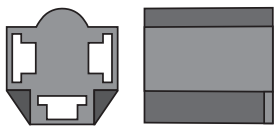

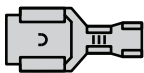

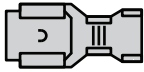



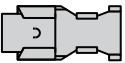

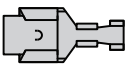

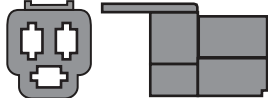
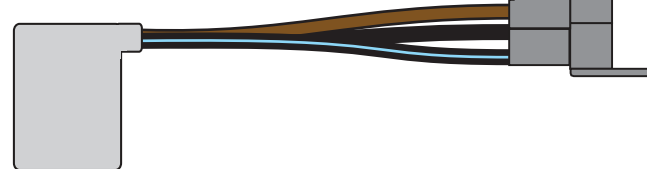
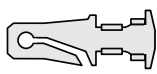
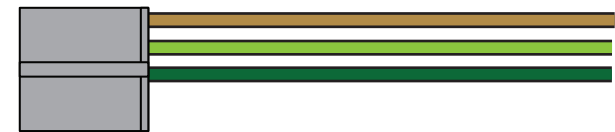
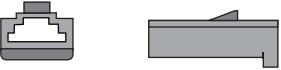
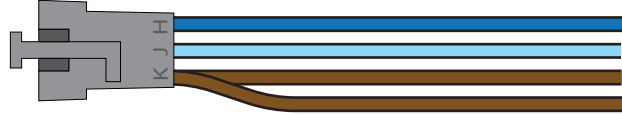
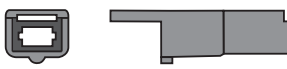

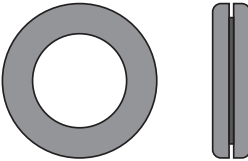



Floor Mounted 3-Speed and 4-Speed Manual:

If there isn’t an existing one, you will need to drill a 1” hole in your transmission tunnel. Install grommet “N” onto the Back-Up Switch Jumper (Item “CC” - Page 18) as shown below and install the grommet and wire assembly into the 1” hole in the transmission tunnel. Route the PINK “12V IGNITION” and LIGHT GREEN “BACK UP LT SW --> LIGHTS” wires from the Back-Up Switch Jumper “CC” to the back up switch and cut to length. For all 4 speed shifters **OTHER THAN A HURST**, slide a large rubber sleeve (Item “B” - Page 18) on each wire, crimp a female bullet terminal (Item “A” - Page 18) on each wire, and slide the rubber sleeve over the crimped portion of the terminals. We have provided terminals “M” and sleeves “D” for you to install onto the back -up switch so that you can plug the wires from the Back-Up Switch Jumper (Item “CC”) into your switch. For all **HURST** shifted 4-speed and all floor mounted 3-speed applications, crimp a 56F terminal (Item “K” - Page 18) on each wire, insert them into the 56Fx2 connector (Item “L” - Page 18), and plug the newly terminated connector directly onto the back up switch assembly.



510967 Front Light harness instructions:

Parts Legend

A		(Connector, 59Fx3, 2 pcs)	DD		(1970 Side Marker Extension, 2pcs)
B		(Terminal, 59F, Single, 6 pcs)	EE		(1968-69 Side Marker Feed, 2pcs)
C		(Terminal, 59F, Single, 4 pcs)	FF		(1968-69 Side Marker Ground, 2pcs)
D		(Connector, 56Fx3, 2 pcs)	HH		(Headlamp and Parking Lamp Ground Wires, 2pcs. These will be cut for the H/L and P/L grounds. See details on pages 23-27.)
E		(Terminal, 56F, Double, 8 pcs)	GG		(RH Park/Turn Lamp Extension, 1970)
F		(Terminal, 56F, Single, 9 pcs)	JJ		(Brake Differential Switch Extension)
G		(Connector, 56Mx3, 2 pcs)	KK		(LH Park/Turn Lamp Extension, 1970)
H		(Terminal, 56M, Single, 11 pcs)	XX		(Headlight, Horn and Electric Fan Extension)
J		(Connector, 56Fx1, 5 pcs)	YY		(Parking Lamp and Turn Signal Extension)
K		(Connector, 56Mx1, 2 pcs)	ZZ		(Brake Warning, Under Hood Lamp, and Washer Pump Extension)
L		(Grommet, 1" hole, 1 pc)			
AA		(Hood Light Feed Wire)			
BB		(Washer Pump Feed Wire)			
CC		(Electric Fan Relay Wire)			



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510967 Front Light harness instructions:
1968-1969 AMX and Javelin

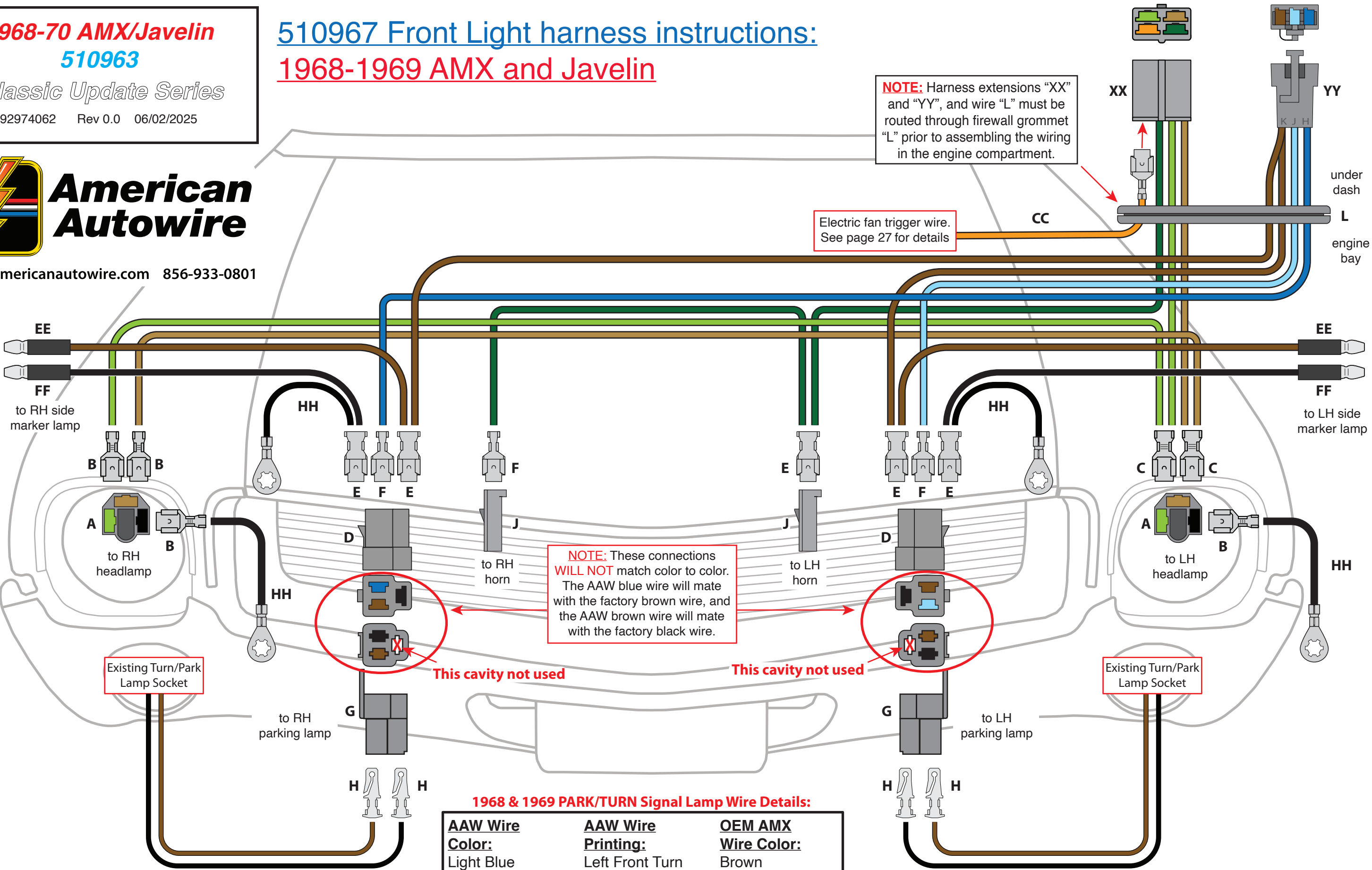


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NOTE: Harness extensions “XX” and “YY”, and wire “L” must be routed through firewall grommet “L” prior to assembling the wiring in the engine compartment.

Electric fan trigger wire.
See page 27 for details



1968 & 1969 PARK/TURN Signal Lamp Wire Details:

AAW Wire Color:	AAW Wire Printing:	OEM AMX Wire Color:
Light Blue	Left Front Turn	Brown
Dark Blue	Right Front Turn	Brown
Brown	Park Lights	Black
Black	Ground	None (Not Used)

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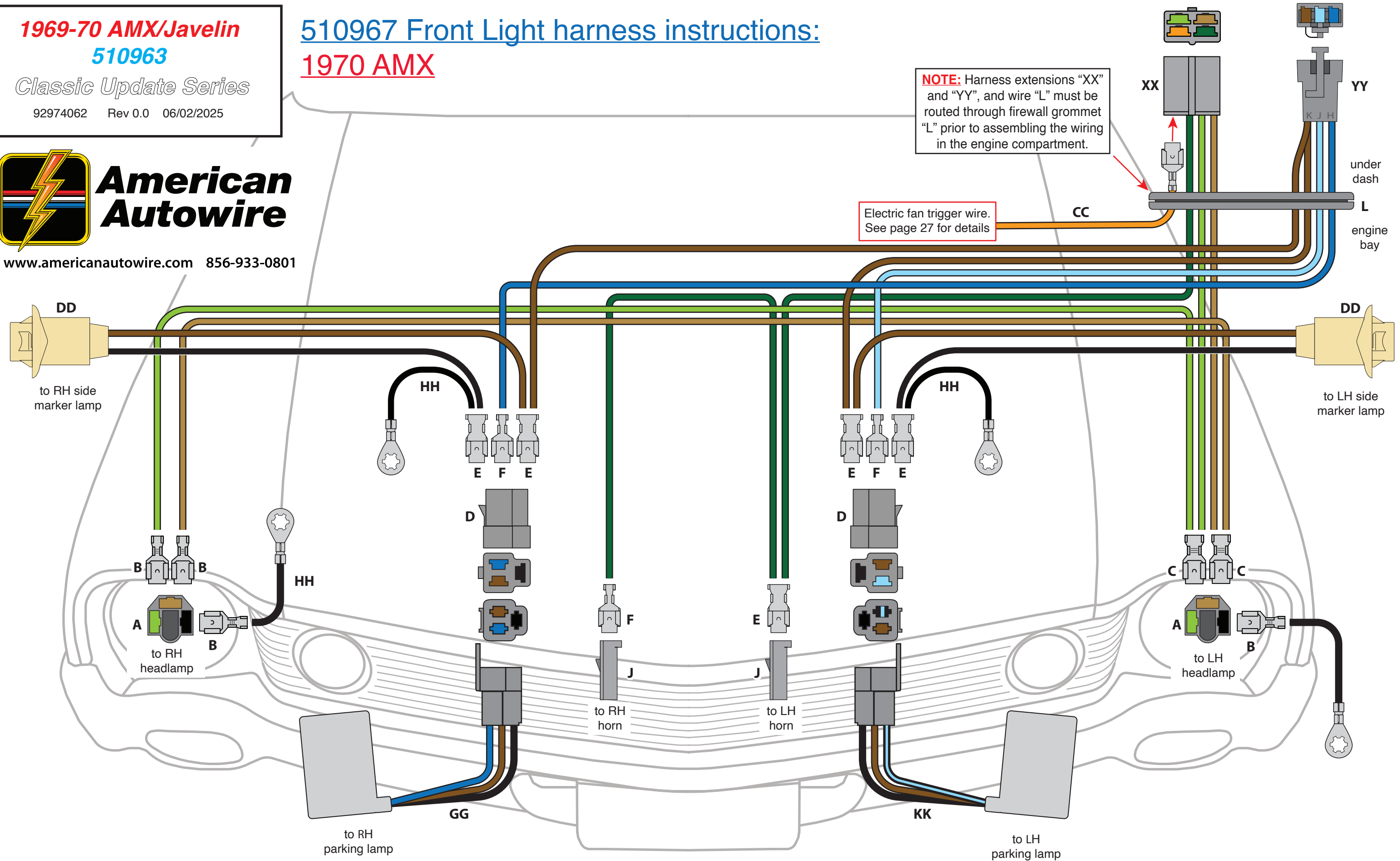
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510967 Front Light harness instructions:
1970 AMX

NOTE: Harness extensions "XX" and "YY", and wire "L" must be routed through firewall grommet "L" prior to assembling the wiring in the engine compartment.

Electric fan trigger wire.
See page 27 for details



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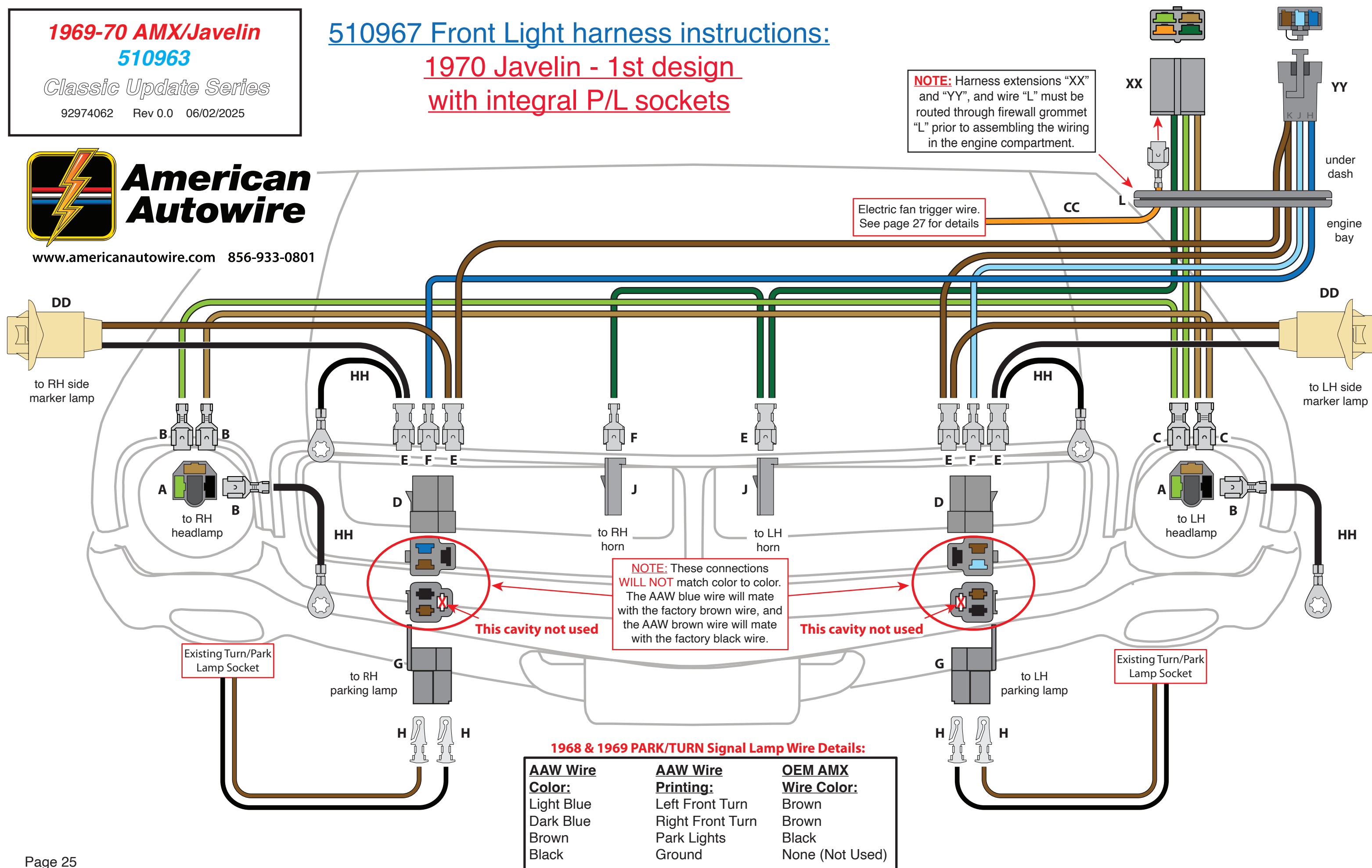
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510967 Front Light harness instructions:

1970 Javelin - 1st design with integral P/L sockets

NOTE: Harness extensions “XX” and “YY”, and wire “L” must be routed through firewall grommet “L” prior to assembling the wiring in the engine compartment.

Electric fan trigger wire.
See page 27 for details



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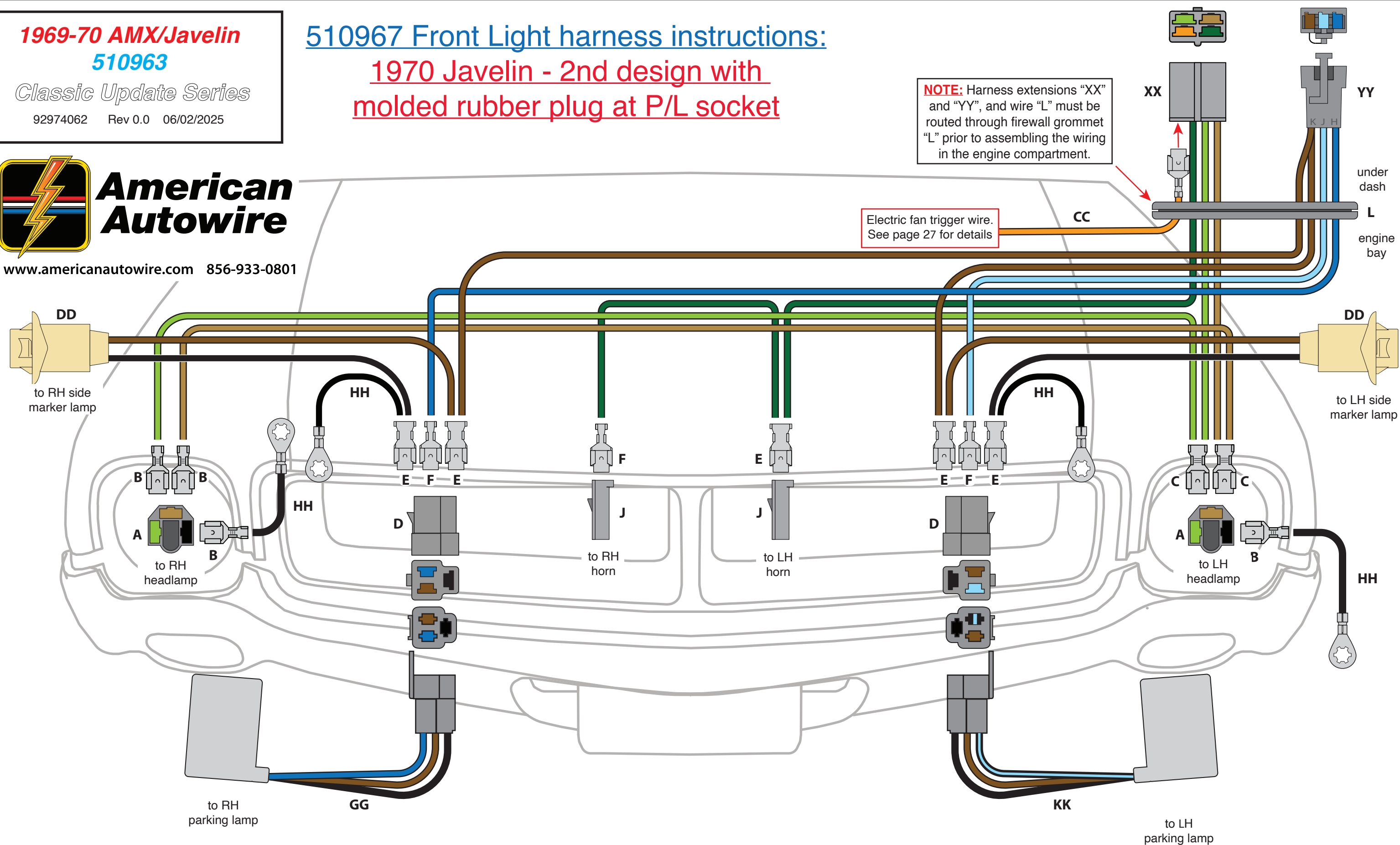
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510967 Front Light harness instructions:

1970 Javelin - 2nd design with molded rubber plug at P/L socket

NOTE: Harness extensions “XX” and “YY”, and wire “L” must be routed through firewall grommet “L” prior to assembling the wiring in the engine compartment.

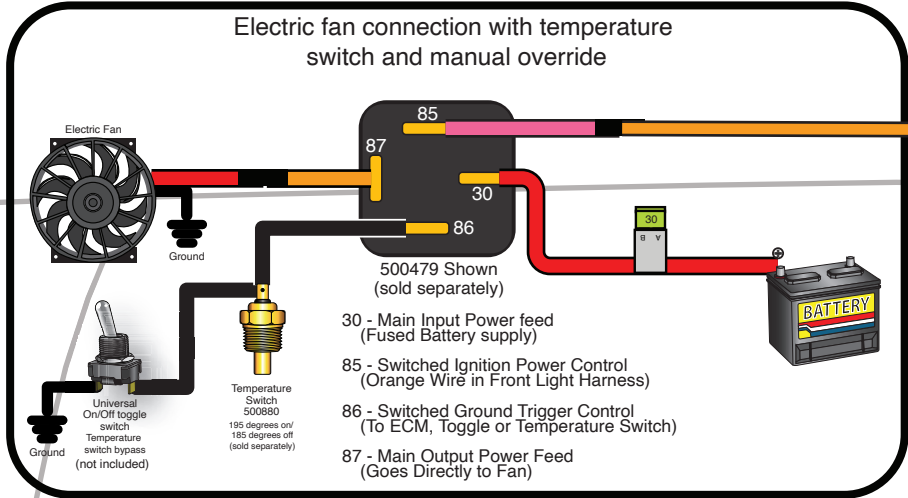


510967 Front Light harness instructions:
All - Optional Electric Fan, Electric Washer
Pump, Brake Pressure Differential Switch
and Under Hood Lamp Feed

NOTE: If your car has an electric fan, plug the orange wire “CC” into pigtail XX as shown at the right. This wire is your fused ignition trigger wire to operate a fan relay. Splice or connect this wire to the 85 circuit on your fan relay. AAW offers a suitable relay, P/N 500479, at an extra cost if you would like to add this feature to your car.

NOTE: Harness extensions “XX” and “YY”, and wire “L” must be routed through firewall grommet “L” prior to assembling the wiring in the engine compartment.

NOTE: If you are going to be running an electric speedometer in your car, the VSS lead wires from the 510730 kit that route down to the sender on your transmission will also be routing out through grommet “L” as well.



Plug pigtail “JJ” onto your brake differential switch. Route the tan “BRAKE LIGHT/SWITCH” wire from pigtail ZZ over to pigtail “JJ” and cut to length. Terminal “F”, and connector “J” have been provided to make the necessary connections to pigtail ZZ.

Note: If your car has an underhood lamp, plug the orange wire “AA” into pigtail ZZ as shown above. The underhood lamp is 12V battery hot circuit. An “on/off”, or mercury switch must be installed or be part of your underhood lamp assembly. Terminals “F & H”, and connectors “J & K” have been provided to make the necessary connections to your lamp. AAW offers a suitable lamp, P/N CG83128, at an extra cost if you’d like to add this feature to your car.

Note: If your car has an electric washer pump, plug the green wire “BB” into pigtail ZZ as shown above. The electric washer pumps were located in a couple of different locations depending on the year of the vehicle. Terminals “F & H”, and connectors “J & K” have been provided to make the necessary connections to your pump.

Washer Pump



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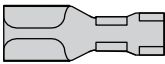
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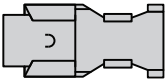
510966 Engine harness instructions:

Parts Legend

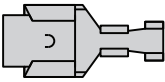
- A



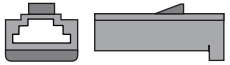
(Terminal, Bullet, Female, 4 pcs)
- B




(Terminal, 56F, Double, 3 pcs)
- C




(Terminal, 56F, Single, 13 pcs)
- D




(Connector, 56Fx1 w/ lock, 7 pcs)
- E



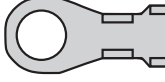
(Sleeve, Rubber, Large, 7 pcs)
- F



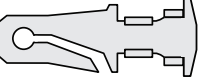
(Connector, 56Mx1, 2 pcs)
- G




(Connector, 56Fx1 w/ out lock, 2 pcs)
- H




(Terminal, Ring, M5, 6 pcs)
- J




(Terminal, 56M, Single, 4 pcs)
- K



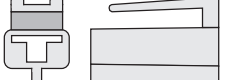
(Sleeve, Rubber, Small, 9 pcs)
- L



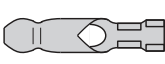
(Grommet, 1" hole, 1 pcs)
- M



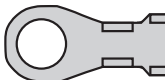
(Connector, 56Fx1, HEI Tach, 1 pc)
- N



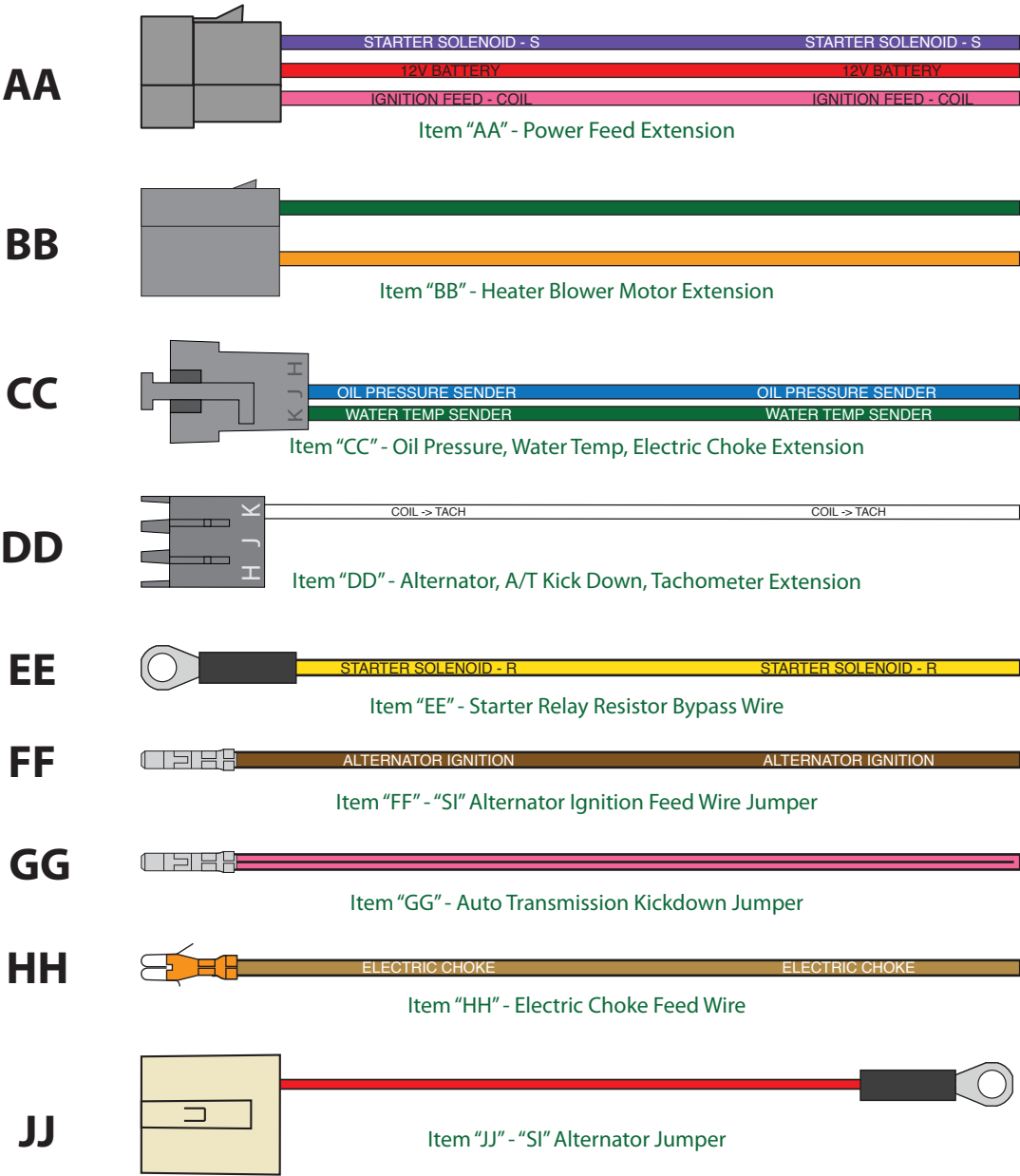
(Connector, 56Fx1, HEI Bat, 1 pc)
- P



(Terminal, Bullet, Male, 4 pcs)
- Q



(Terminal, Ring, M5, 12 gauge, 3 pcs)



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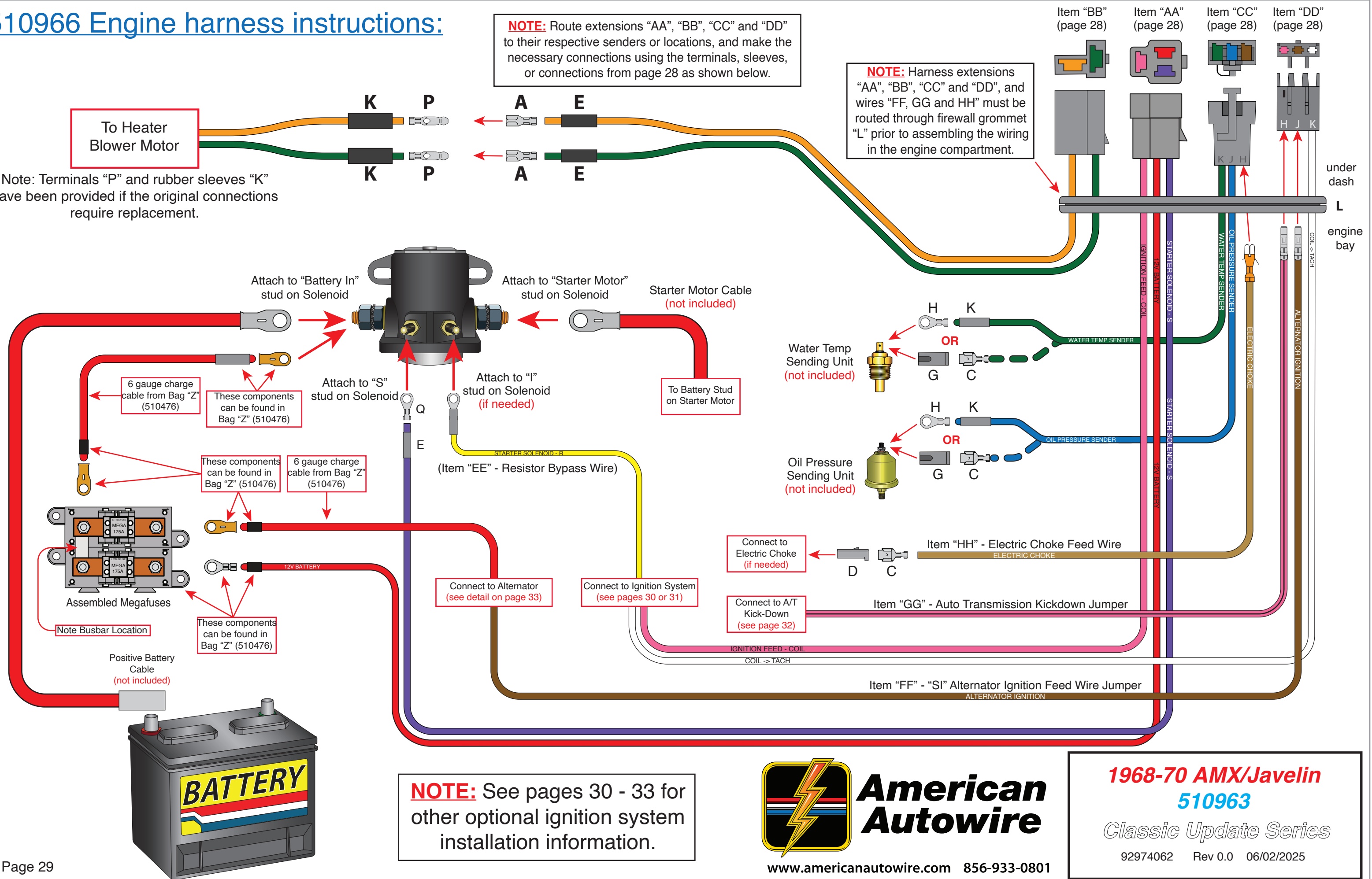
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510966 Engine harness instructions:

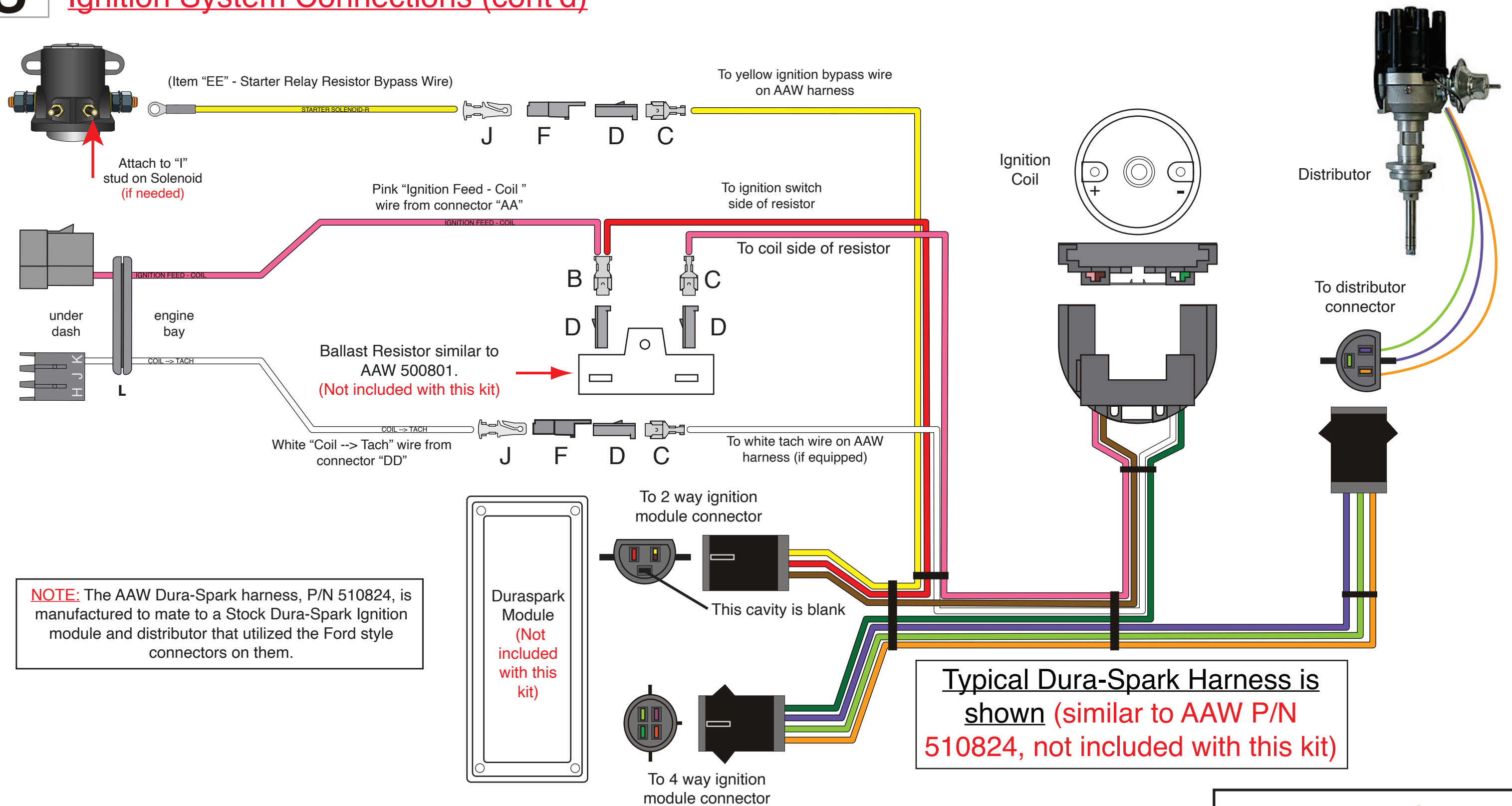
Note: Terminals "P" and rubber sleeves "K" have been provided if the original connections require replacement.

NOTE: Route extensions "AA", "BB", "CC" and "DD" to their respective senders or locations, and make the necessary connections using the terminals, sleeves, or connections from page 28 as shown below.

NOTE: Harness extensions "AA", "BB", "CC" and "DD", and wires "FF, GG and HH" must be routed through firewall grommet "L" prior to assembling the wiring in the engine compartment.



510966 Engine harness instructions: Ignition System Connections (cont'd)



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1968 A/T Kick Down:

Note: Terminal “P” and rubber sleeve “K” have been provided if the original connections require repair/replacement.



510966 Engine harness instructions:

Alternator Connections

This Classic Update kit will support the use of a GM "SI" series alternator, or any internally regulated "self-exciting" 1-wire alternator.



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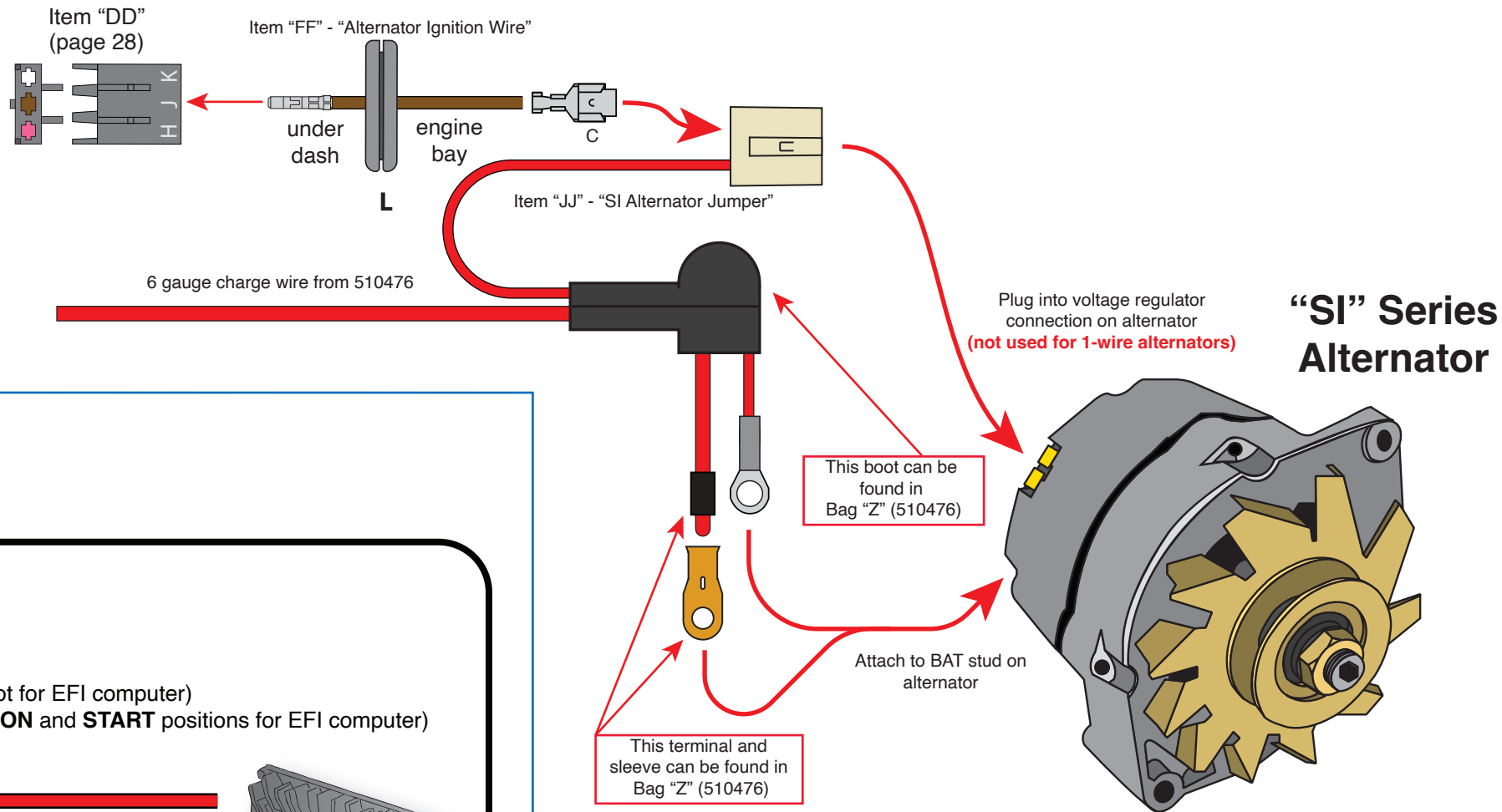
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GM "SI" Series Alternator:

Locate the BROWN "Alternator IGN" wire (Item "FF" - Page 28) and plug it into cavity "J" on the Engine connector "DD". Route the loose end of this wire out through grommet "L" to the alternator, cut to length and crimp 56 Series Single Female Terminal (Item "C" - Page 28) on to the end of the wire. Locate the "SI Alternator Jumper" (Item "JJ" - Page 28), and insert the newly terminated end of the BROWN "Alternator IGN" wire into the open cavity of the white connector on jumper "JJ." Plug the completed connector assembly into the alternator. Secure the ring terminal end of the RED voltage sense wire in the "SI Alternator Jumper" to the BAT stud on the alternator along with the 6 gauge charge wire from the MEGA Fuse assembly.

"Self Exciting" 1-Wire Alternator:

1-wire alternators do not require an exciter circuit, therefore, the BROWN "Alternator IGN" wire (Item "FF"), and the "SI Alternator Jumper" (Item "JJ") will remain unused. Secure the 6 gauge charge wire from the MEGA Fuse assembly to the BAT stud on the alternator to complete the 1-wire alternator connection.



510966 Engine harness instructions:

Aftermarket Fuel Injection

Wire	Printing	Fuse	Description
RED	POWER LOCKS	5 - Power Locks	Fused 12 volt BATTERY, (FULL TIME hot for EFI computer)
PINK	POWER WINDOWS	8 - Power Window	Fused 12 volt IGNITION, (hot in the key ON and START positions for EFI computer)

Accessory Connector 1

AA

wires from customer's EFI harness (colors may vary)

Terminal G found in the loose piece kit in the dash harness bag, 510964.

This connector "AA" is found on page 8 plugged into Accessory Connector 1 from the factory. Remove this connector before attempting to install the wires.

GM ECM shown


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Classic Update Series

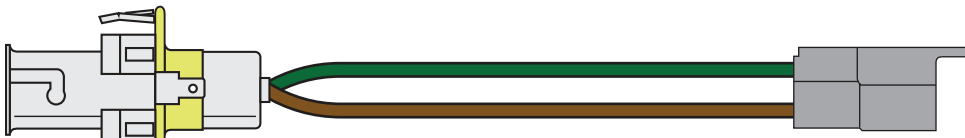
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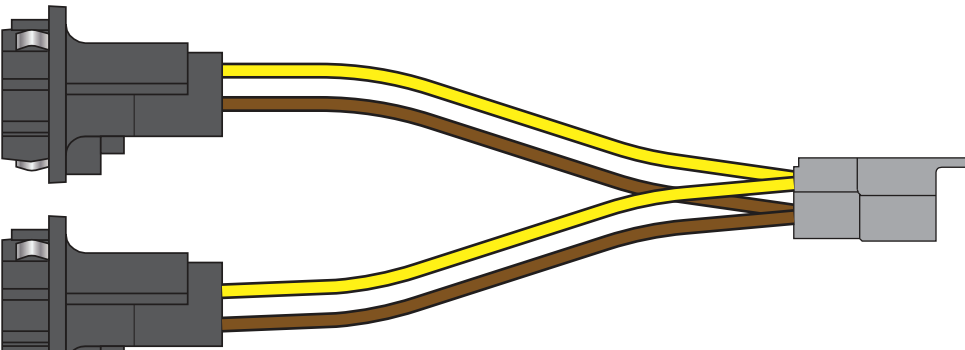
510968 Rear Body harness instructions:


Parts Legend


A  45"
(LH C-Pillar Extension, 45" length, 1 pc)


B 
(LH Stop/Turn Pigtail, 1968-69, 1 pc)


C 
(RH Stop/Turn Pigtail, 1968-69, 1 pc)

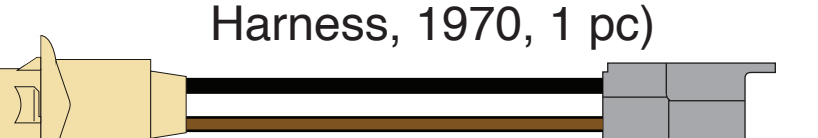
D 
(LH Stop/Turn Pigtail, 1970, 1 pc)


E 
(RH Stop/Turn Pigtail, 1970, 1 pc)

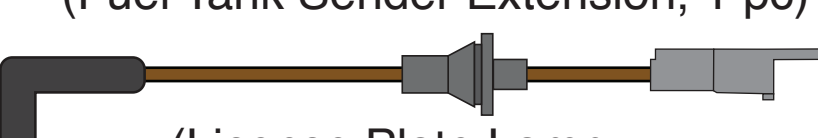
F 
(Back-up Light Pigtail, 1968-69, 2 pcs)

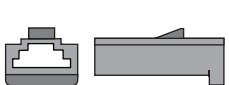
G 
(Back-up Light Pigtail, 1970, 1 pc)


H 
(Side Marker Light Ground Harness, 1970, 1 pc)


J 
(Side Marker Pigtail, 1970 AMX-Javelin, 2 pcs)


K 
(Fuel Tank Sender Extension, 1 pc)

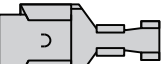
L 
(License Plate Lamp Extension, 1 pc)

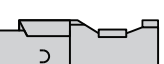
M  (Connector, 56Fx1, 4 pcs)


N  (Connector, 56Fx2, 2 pcs)


P  (Connector, 56Fx3, 2 pcs)


Q  (Sleeve, Rubber, Large, 8 pcs)


R  (Terminal, 56F, Single, 12 pcs)


S  (Terminal, 56F, Double, 8 pcs)

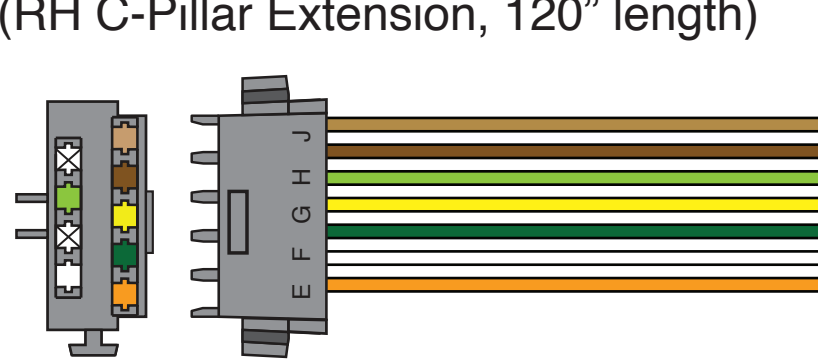
T  (Terminal, Bullet, Female, 8 pcs)

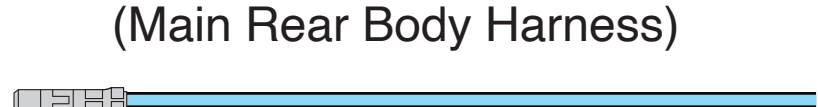
V  (Terminal, Bullet, Male, 3 pcs)

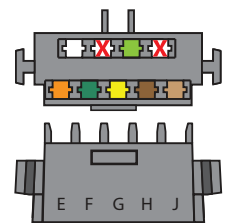
W  (Sleeve, Rubber, Small, 3 pcs)

X  (Grommet, 3/4" Hole, 1 pc)

Z  120"
(RH C-Pillar Extension, 120" length)

AA 
(Main Rear Body Harness)

BB 
(Third Brake Light Wire)



510968 Rear Body harness instructions

1968-1969 AMX
and Javelin

Trunk Lamp
(Page 37)

C-Pillar Lamps
(Page 37)



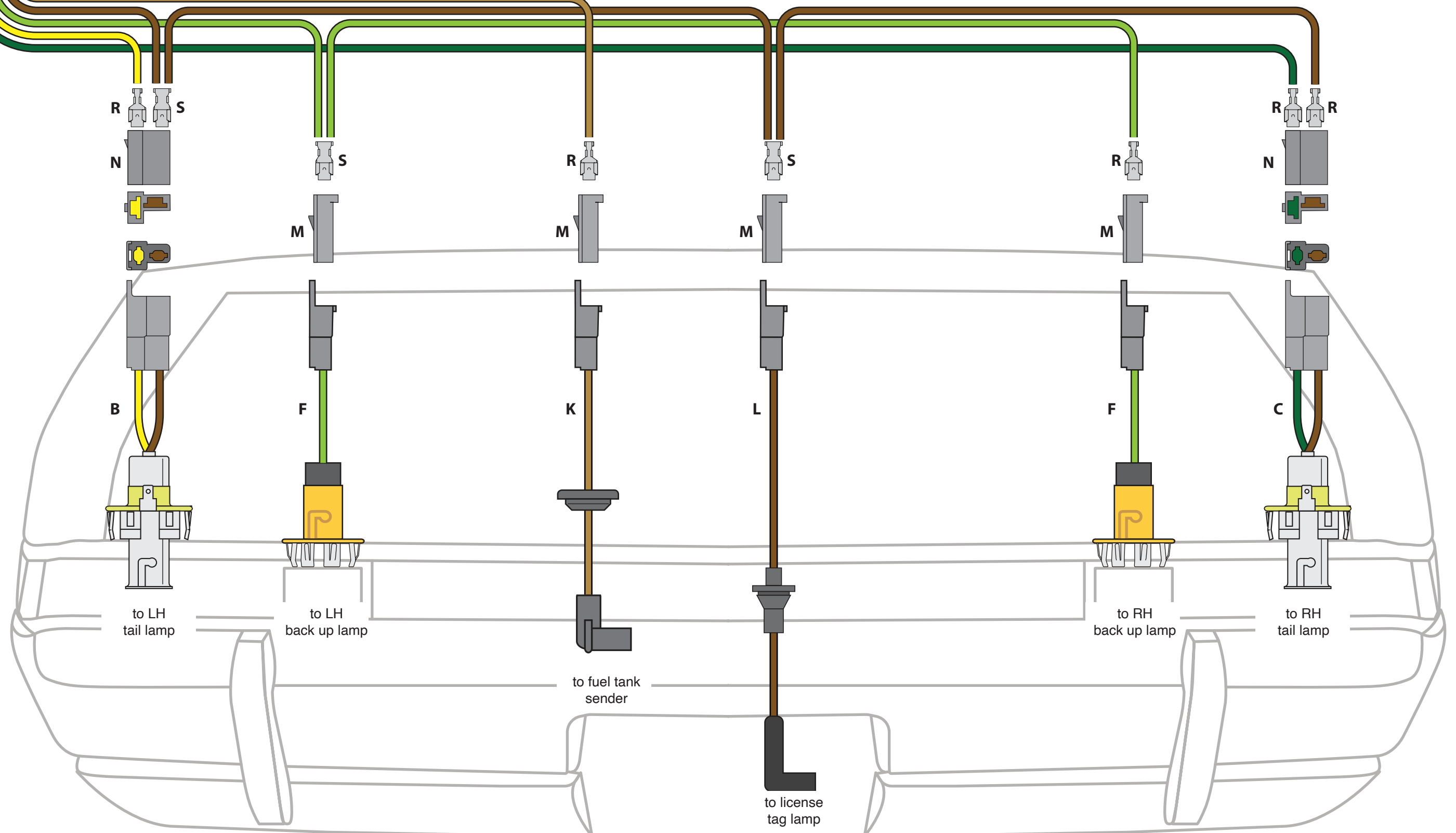
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Autowire**

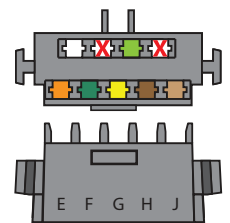
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510968 Rear Body harness instructions: 1970 AMX and Javelin



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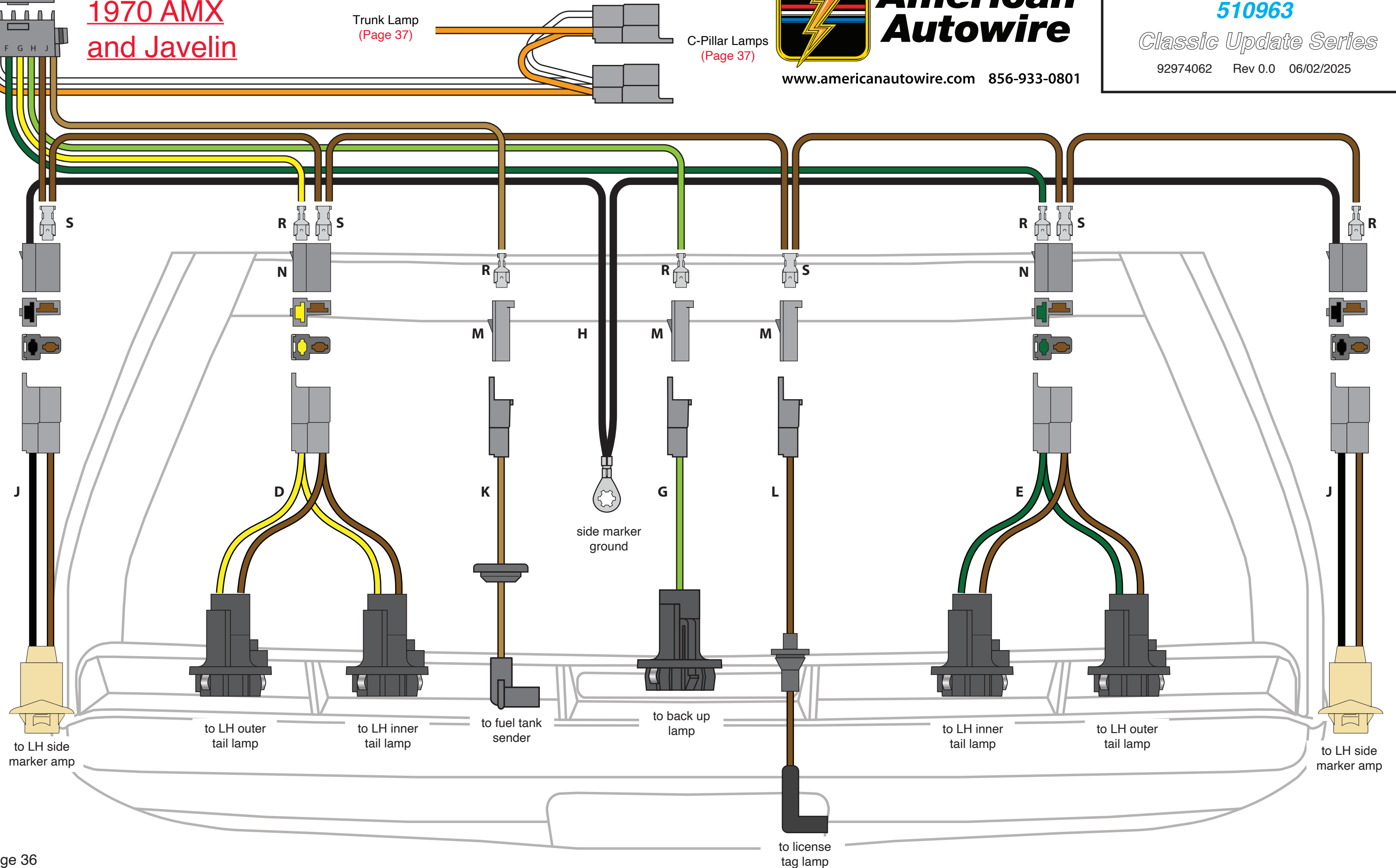
**1969-70 AMX/Javelin
510963**

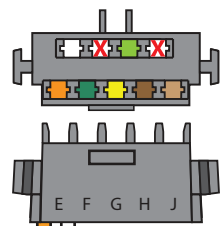
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Trunk Lamp
(Page 37)

C-Pillar Lamps
(Page 37)





510968 Rear Body harness instructions:
1968-1970 Javelin C-Pillar Lamps
1968-1970 ALL Trunk Lamp



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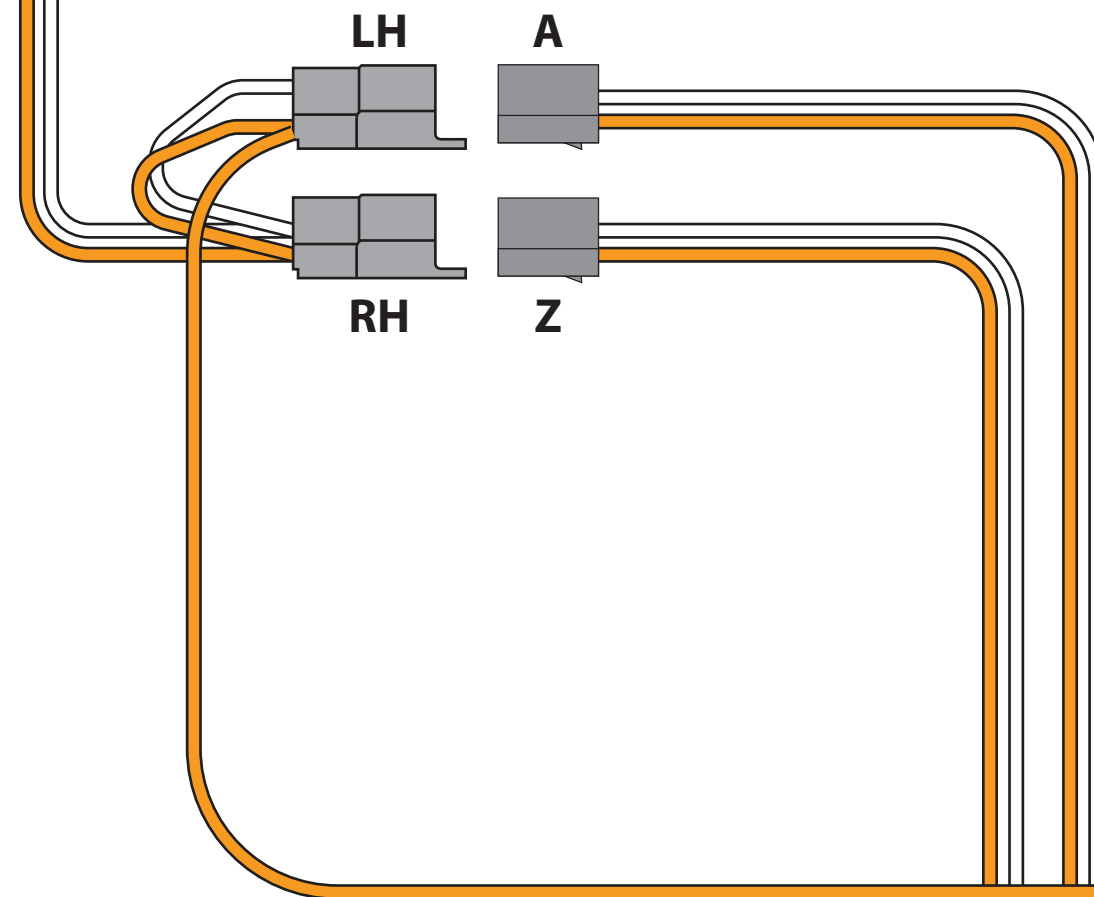
The 1968-1970 Javelin vehicles were standard equipped with C-Pillar lights. AMX vehicles were not produced with C-Pillar Lights, or dome lamps for the same years.

Locate the RH C-Pillar Extension, 120" length (**Item "Z" - Page 34**), and plug it into the mating connection on the rear body harness with 2 ORANGE and 2 WHITE wires as shown to the left. Route the loose wires to the RH C-Pillar lamp, cut to length, and install terminals/sleeves/connectors as shown below for the applicable model year. Plug the new connections onto the existing C-Pillar lamp connections to complete this circuit.

Repeat this process for the LH C-Pillar lamp, plugging the LH C-Pillar Extension, 45" length (**Item "A" - Page 34**) into the remaining mating connector on the rear body harness.

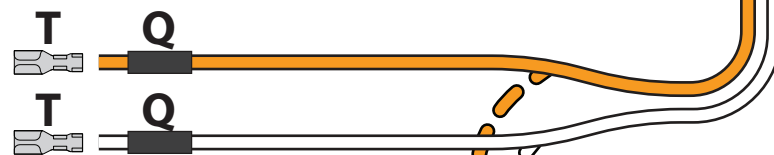
Locate the existing lead from the trunk light, pass it through grommet "X" and slide the rubber sleeve "W" on the end of the wire. Crimp a MALE bullet terminal "M" onto the end of the wire, and slide the rubber sleeve over the crimped portion of the terminal. Install the grommet into the trunk pass through.

Route the loose ORANGE wire to the new connection, cut to length, and slide rubber sleeve "Q" on the end of the wire. Crimp female bullet terminal "T" on the end, slide the sleeve over the crimped portion of the terminal, and connect to the trunk lamp lead to complete the connection.

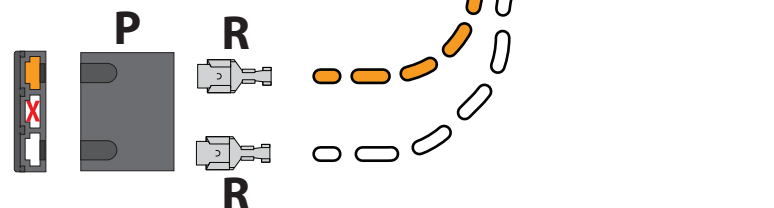


RH C-Pillar Lamp Connections

1968-69

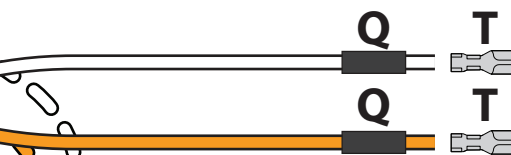


1970

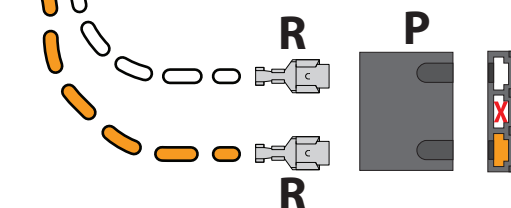


LH C-Pillar Lamp Connections

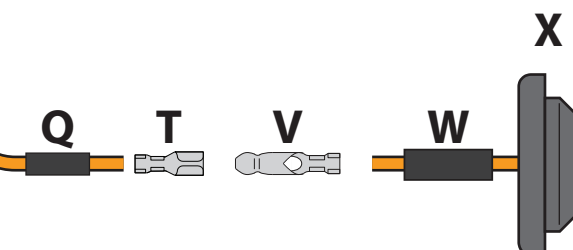
1968-69



1970

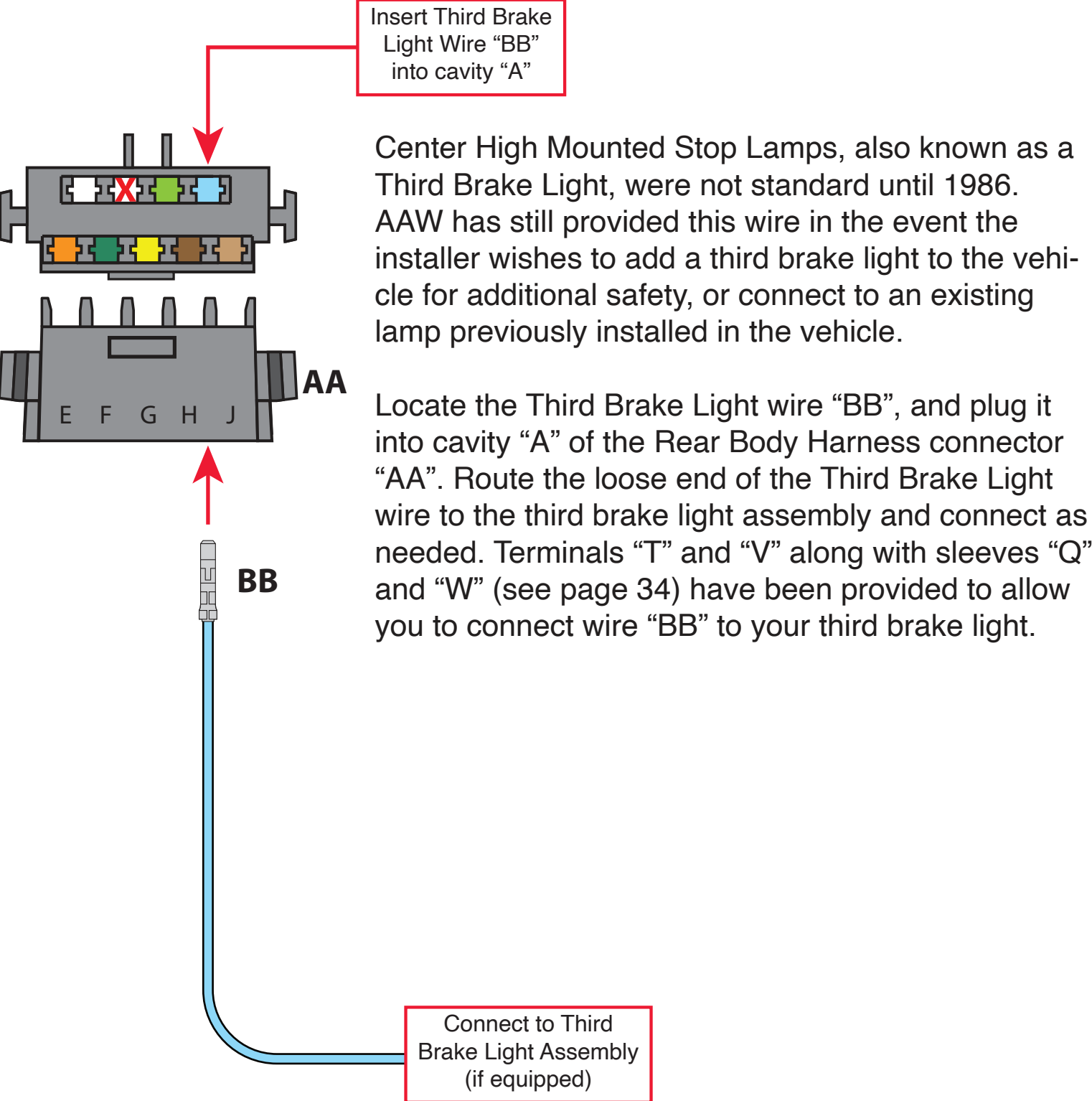


p/n 500143
Trunk Lamp kit
(not included in this
kit, but available at
extra cost)



OEM Trunk Lamp
or AAW 500143

510968 Rear Body harness instructions:
1968-1970 ALL Optional Third Brake Light



The installation is now complete!

Re-connect the battery and test all circuits to ensure the proper function of installed components.

Should you require additional assistance, contact our Tech team at 1-800-482-9473

Thank you, for choosing American Autowire!



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