

NOTE: If the fuse panel on your 510158 68-69 Chevelle kit **DOES NOT** have a sticker like the photo at the left, you have the first design harness and your instructions are listed below and follow this page.

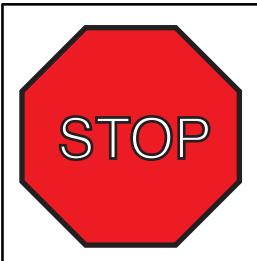
Number	Description
500332	Headlight Switch
500707	Fuse, Relay, and Flasher kit
500708	Courtesy Light kit
500919	Practice Terminal Crimping Set
510160	Dash Harness kit
510161	Engine Wiring Kit
510162	Front Light Wiring kit
510163	Instrument Cluster Wiring kit
510112	Console Wiring kit
510164	Rear Body Wiring kit
510476	Alternator and main power Connection kit
500042	Floor Dimmer Switch
92969351	Kit Introduction Instruction Sheet
92970012	Warning Sheet



www.americanautowire.com 856-933-0801

68-69 Chevelle First Design Instructions

92972890 rev. 0.0 2/14/2020



WARNING:

Validate the kit contents with the component list included on page 2 of this sheet before proceeding. This kit is intended to be used in a modified vehicle. Please read this sheet 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 should typically be used in a **MODIFIED** application only.
- 2. This kit supports the use of factory heater systems and aftermarket heater and A/C systems. The kit supplies power to a factory A/C control head but DOES NOT include the actual A/C harness for an original factory A/C vehicle. Factory original A/C harnesses are available under our Factory Fit product line as they are self contained harnesses made to fit and work with the stock A/C component configuration.
- 3. This kit supports the use of a high current self-exciting 1-wire alternator or other style internally regulated alternators. An adapter may be necessary in some applications. The use of a stock, low amperage alternator is seriously discouraged as they cannot handle the higher current requirements of updated ignition systems, electric fans, aftermarket A/C systems, stereo systems, air ride suspensions, and other power hungry accessories and will ultimately create performance issues with the system.
- 4. This kit WILL NOT support the use of a factory 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 termial. 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 will not work properly. When ammeters were originally used, most generator or alternator current outputs were rated at a maximum of about 25-60 amps. Modified cars being built today typically utilize a 100 amp or higher output alternator. With these higher current units, ammeters, generally speaking, become a safety hazard. Ammeters are usually wired in parallel to the charging circuit, are typically unfused, and can short very easily causing a fire. A voltmeter is recommended as a good alternative.
- 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 that is hot in the run position. Primary ignition voltage in the starting position is handled via a full 12 volt bypass wire. 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. Extra parts (ballist resistor) that are not included in this kit will be required to complete that operation.



510158 - Classic Update Series Kit 1968-69 Chevrolet Chevelle

This kit contains the following components:

	Part		
<u>Bag</u>	<u>Number</u>	<u>Description</u>	Quantity
	500042	Floor Dimmer Switch	1
	500332	Headlight Switch	1
	500707	Fuse, Relay, and Flasher kit	1
Ν	500708	Courtesy Light kit	1
K	510112	Console Wiring kit	1
	500919	Practice Terminal Crimping Set	1
G	510160	Dash Harness kit	1
J	510161	Engine Wiring Kit	1
L	510162	Front Light Wiring kit	1
Н	510163	Dash Cluster wiring kit	1
M	510164	Rear Body Wiring kit	1
Z	510476	Alternator and Main Power connection kit	1
	92969351	Kit Introduction Instruction Sheet	1
	92970012	Warning Sheet	1

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



<u>510158</u>

Classic Update Series

1968-69 Chevelle

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 crimp wings on the terminals as shown below. Top quality crimping tools are available from American Autowire or American Autowire authorized dealers.

NOTE: ALL TERMINALS THAT YOU INSTALL SHOULD BE PROPERLY SOLDERED.

Our factory terminations are installed by GM approved termination presses, and soldering is not necessary on these terminations.

wire core







INSTALLATION INSTRUCTIONS

proper crimp of terminal

STEP 1: DISCONNECT YOUR BATTERY:

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

STEP 2: START INSTALLING KIT:

This kit is broken down into individual steps that are identified by a letter printed on the instruction sheets visible through each bag. These letters are the order of operation for installing your kit. Start with the bag letter G, then H, etc. The order of installation is shown below.

G 510160 Dash Harness Kit

H 510163 Instrument Cluster Kit

J 510161 Engine Kit

K 510112 Console Kit

L 510162 Front Light Kit

M 510164 Rear Body Kit

N 500708 Courtesy Light Kit

Z 510476 Alternatór and Main Connection Kit

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 1-800-482-WIRE.

We carry many accessories for your 1968-69 Chevelle

OEM style turn signal switch p/n 07800482 - 68 floor shift delco

p/n 05698520 - 68 all w/Boyne

p/n 01997938 - 69 all

p/n 01993443 - 68 w/o recessed park

p/n 01993464 - 69 w/o recessed park p/n 01993465 - 69 with recessed park

OEM style non-stick harness tape p/n R0067108







OEM large terminal and double Multi-crimp tool (20-14 gauge) crimping tool (12-8 gauge) p/n 500649 p/n 500523

p/n 05698897 - 69 column shift delco p/n 01993442 - 68 with recessed park



p/n 03943657 (1969)

p/n 01993307 (1968)







Factory assembly manuals. (It's what they used on the assembly line to build your Chevelle!)

p/n 36298 (1968) p/n 36299 (1969)







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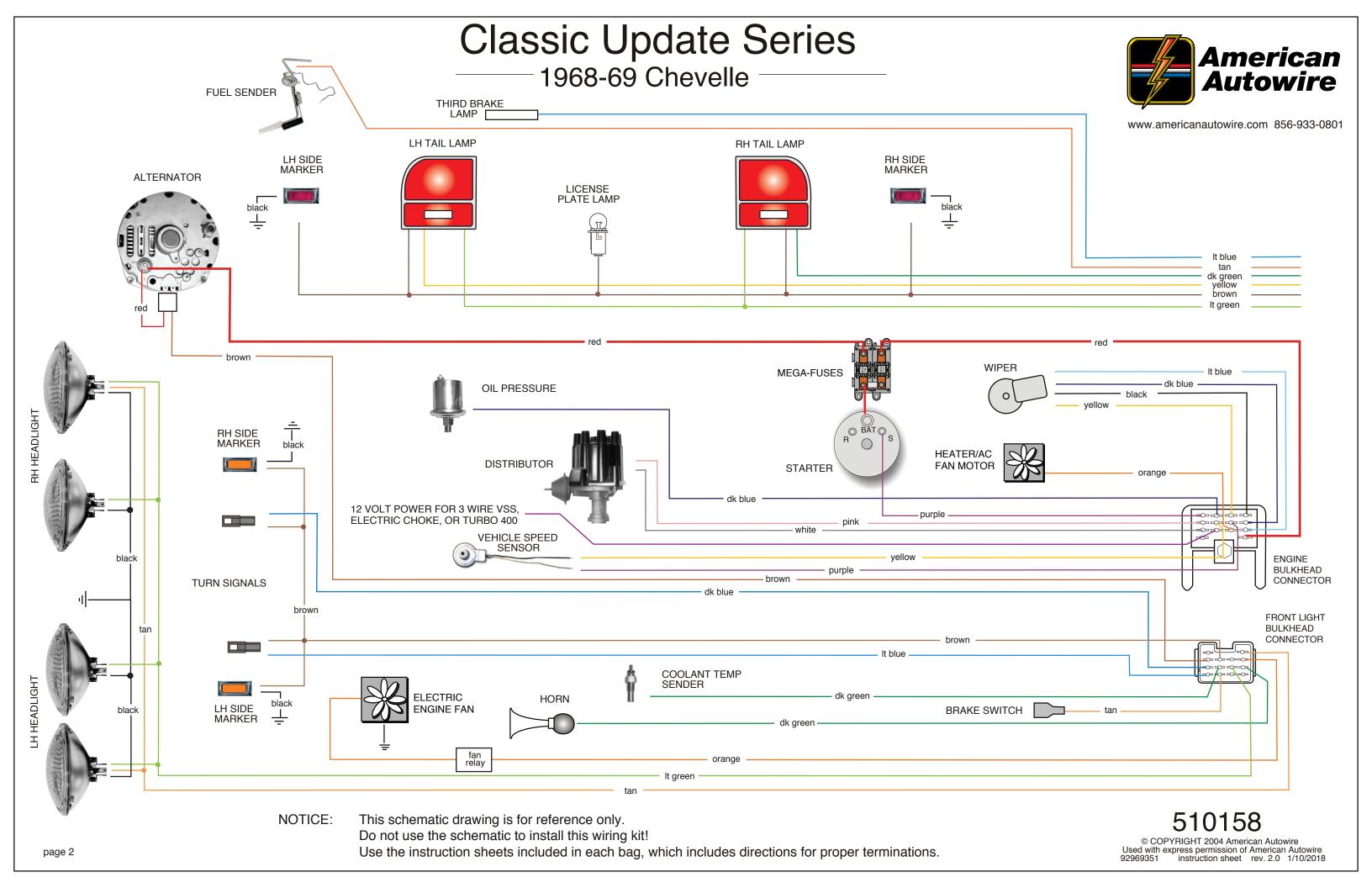
AMERICAN AUTOWIRE MAKES IT EASY !!

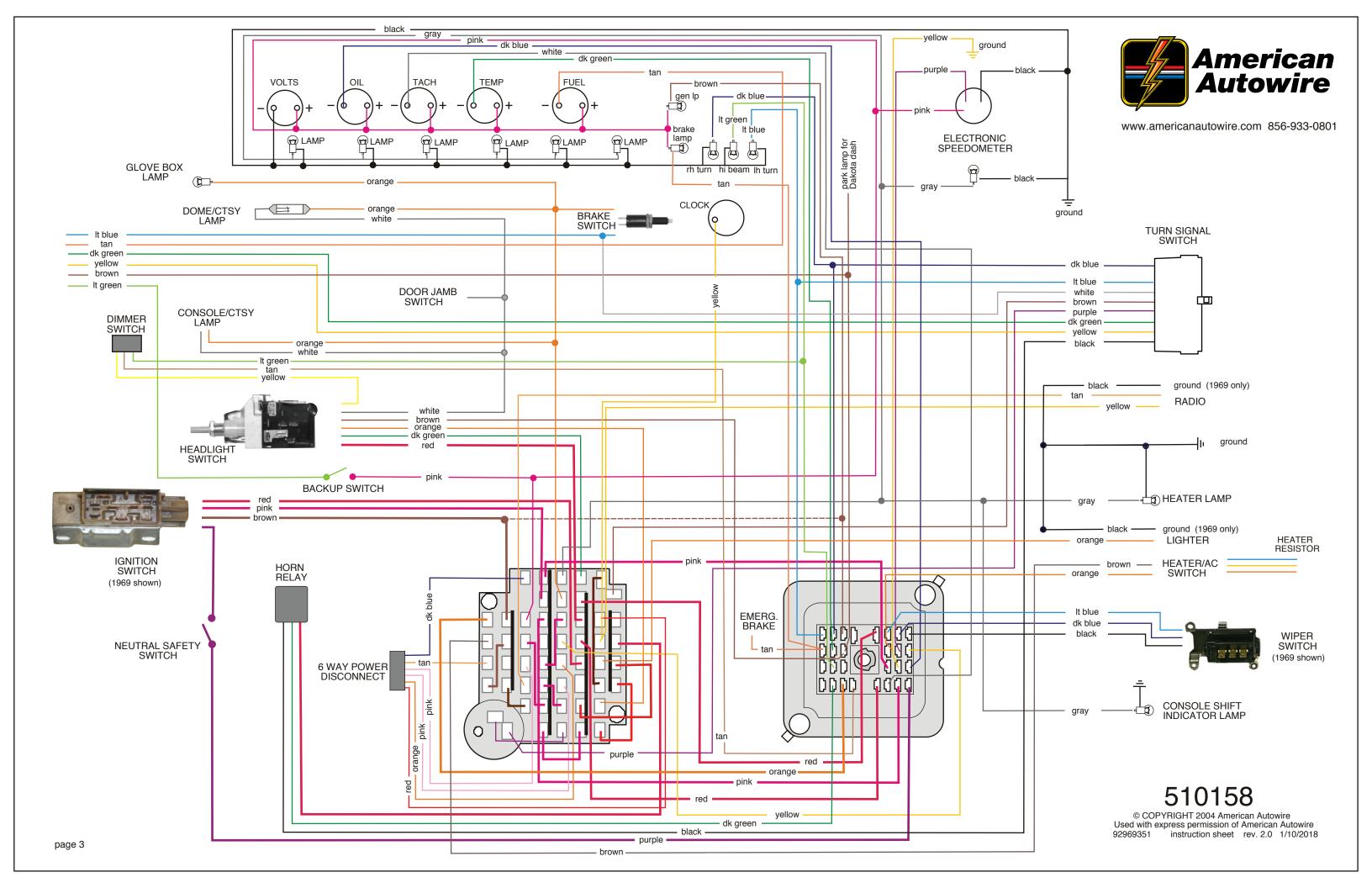
Classic Update Series

1968-69 Chevelle

510158

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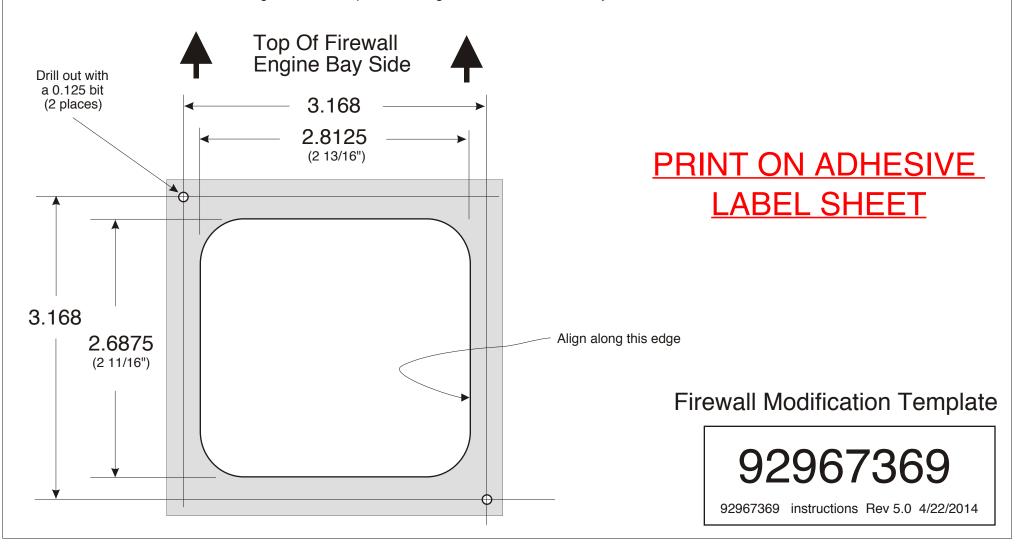


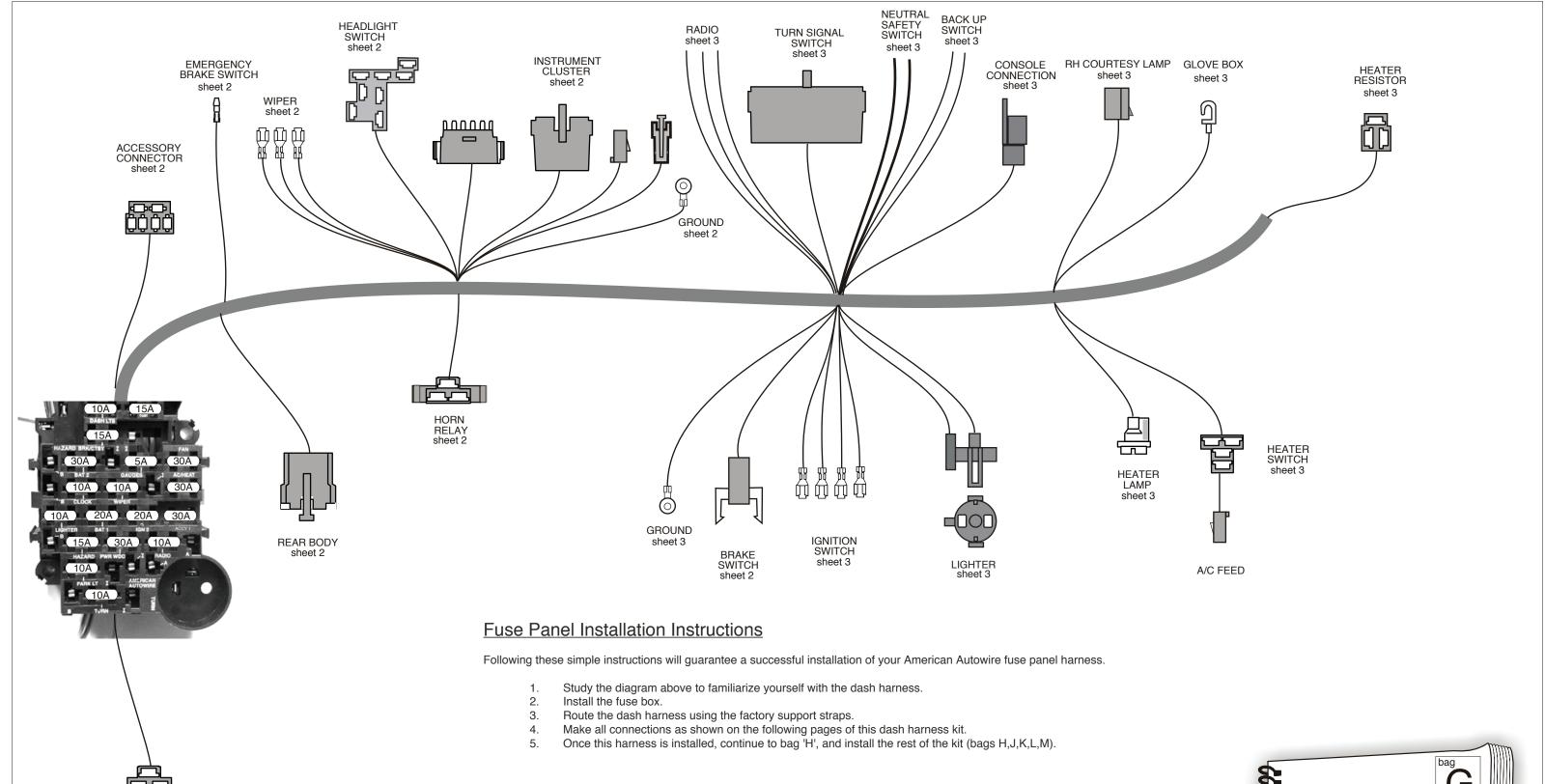
Template for firewall modification for some Classic Update Kits

Classic Update Series kits are based on the 1968 and later GM bulkhead assembly which has a different mounting footprint than earlier bulkhead connectors. Therefore, it will be necessary to modify the firewall in 1967 and earlier cars to accept the 1968 and later design bulkhead. This enclosed template can be used for this purpose.

We suggest that this template be glued to stiff cardboard or a thin piece of plastic. The white area can then be cut out with a razor knife to define the area of material that needs to be removed from the existing bulkhead area. Proceed as follows:

- 1. Position the template against the firewall aligning the right hand edge with the right hand edge of the existing bulkhead hole.
- 2. Trace the opening area onto the existing bulkhead and cut out the area.
- 3. Drill the two .125 holes for the new bulkhead mounting screws.
- 4. Mount the fuse box assembly from the passenger compartment side and check the fit into the new bulkhead hole. It may be necessary the do some fine tuning on the hole size for an exact fit.
- 5. Screw in the new fuse box retaining screws to complete securing the new fuse box assembly to the firewall







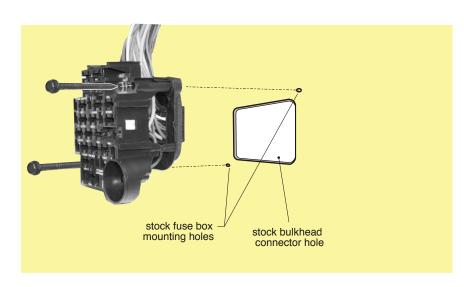
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DIMMER SWITCH

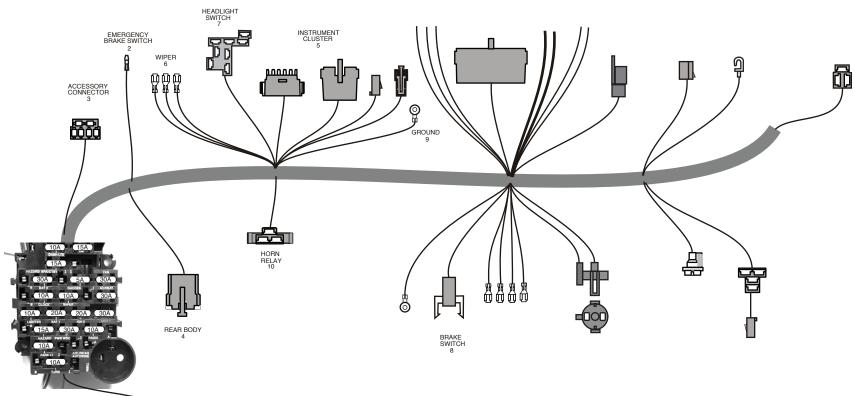
sheet 2

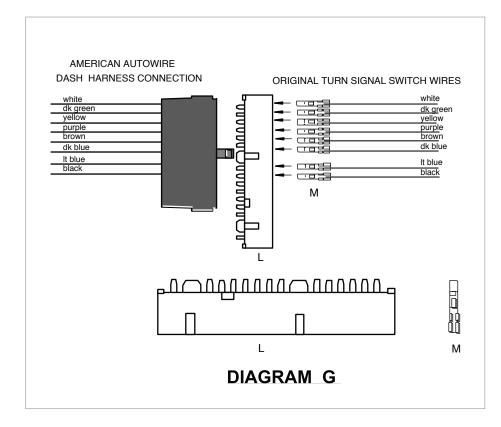
INSTALLING THE FUSE BOX



- 1. Locate the stock OEM bulkhead hole in the driver side of the firewall.
- 2. Mount the fuse box with the flasher can in the bottom right corner, as shown above.
- 3. Using the two mounting screws A, attached the fuse panel to the firewall.

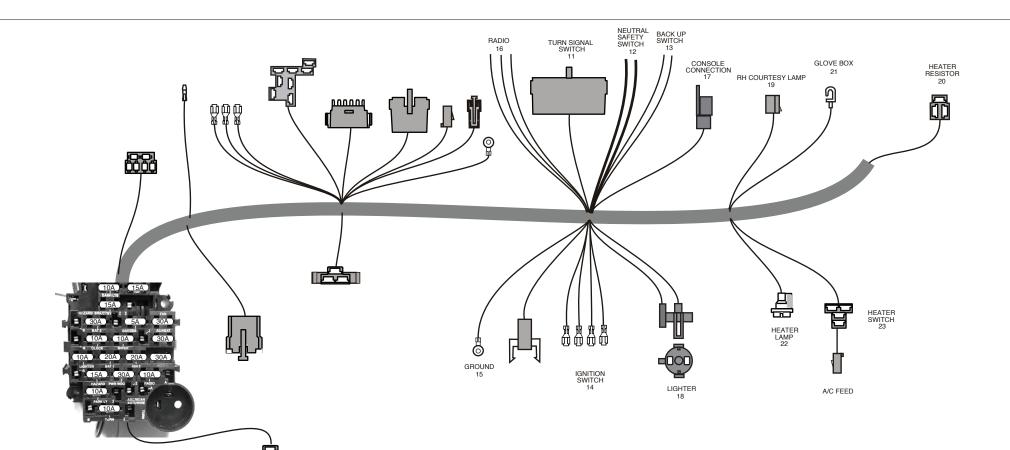
1	DIMMER SWITCH	Light Green	Thin wire is feed to high beam indicator light in instrument cluster
'	DIMINIER SWITCH	Light Green	Heavy wire is headlight high beam feed wire.
		0	Treavy wire is freadilight high beath reed wire.
		Tan Yellow	Headlight low beam feed wire.
0	EMEDOENOV DDAVE		Headlight power feed wire from headlight switch.
2	EMERGENCY BRAKE	Tan	Connect to the emergency brake switch. This is the ground circuit for the brake switch light.
3	ACCESSORIES		Use the provided connector and terminals as power leads for the following:
		_	Fuse Rating
		Tan	FUEL 10 amp Fused 12 volt IGNITION feed for fuel pump (may also be used to feed power to another ignition circuit)
		Orange	BAT1 20 amp Fused 12 volt BATTERY feed for power seats (may also be used to feed power to another battery circuit)
		Red	BAT2 30 amp Fused 12 volt BATTERY feed for power door locks (may also be used to feed power to another battery circuit)
		Pink	IGN1 20 amp Fused 12 volt IGNITION feed for cruise control (may also be used to feed power to another ignition circuit)
		Pink	PWRWDO 30 amp Fused 12 volt IGNITION feed for power windows (may also be used to feed power to another ignition circuit)
	75.17.707.4	Dk Blue	ACCY1 30 amp Fused 12 volt ACCESSORY feed (may also be used to feed power to an accessory circuit)
4	REAR BODY	_	This connector will mate to the connector from the Rear Body harness found in bag L.
		Tan	Fuel tank sender lead
		Brown	Tail lamp feed
		Yellow	LH turn / brake feed
		Dark Green	RH turn / brake feed
		Orange	Dome / courtesy lamp feed
		White	Dome / courtesy lamp ground
		Light Green	Back up lamp feed
_		Light Blue	Third brake light
5	INSTRUMENT CLUSTER DISCONNECTS		These connectors will plug into the gauge disconnect harness 510163, bag H. Wire identifications are described on the Instruction sheets in bag H.
6	WIPER	Disale	See page 4 for exact placement of the wires in the proper connectors for either the 1968 or 1969 applications.
		Black Dk Blue	Ground circuit for low speed. (in 3 way connector)
		Lt Blue	Ground circuit for washer. (in 3 way connector)
7	HEADLIGHT SWITCH	Red	Ground circuit for hi speed. (in 3 way connector) 12 volt BAT feed for H/L power "in" on switch
1	READLIGHT SWITCH	Orange	12 volt feed for PARK / TAIL power "in" location on switch. (commonly found on GM headlight switches).
		Brown	Park lamp and tail lamp feeds "out" from PARK LAMP OUT location on switch.
		Yellow	Dimmer feed "out" from DIMMER FEED location on switch.
		Dk Green	Instrument lamp feed "out" from INSTRUMENT LAMP location on switch to fuse panel.
		White	Dome / courtesy ground COURTESY GROUND location on switch.
8	BRAKE SWITCH	VVIIIC	Plug this connector into the factory stop lamp switch.
Ü	BID WE OWN ON	Orange	12 volt feed "in" to switch.
		White	12 volt brake feed "out" to steering column turn signal switch.
		Lt Blue	12 volt brake feed "out" to third brake light.
9	GROUND	Black	Connect to a good chassis ground.
10	HORN RELAY	Diagn	Plug the horn relay (found in the fuse bag 500707) into this connector.
		Red	12 volt battery feed
		Black	Relay ground circuit (from steering column)
		Green	Triggered 12 volt output to horn
		= =	30

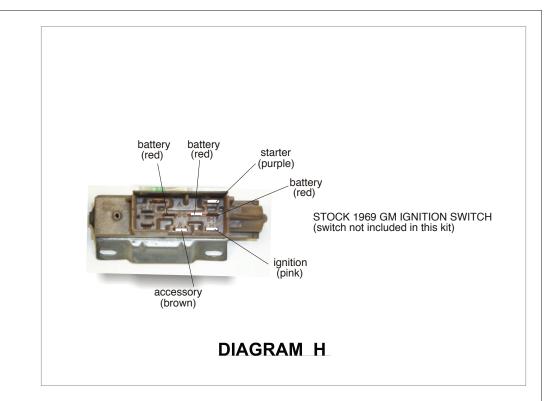






1968-69 Chevelle
DASH KIT
510160





TURN SIGNAL SWITCH

NEUTRAL SAFETY SWITCH

BACK UP SWITCH

IGNITION SWITCH

CONSOLE CONNECTION

RH COURTESY LAMP

HEATER SWITCH

GROUND

LIGHTER

RADIO

13

14

15

16

17

18

19

22

23

This harness has a connector on it for the 3 7/8 in. 1969-74 GM steering column connection used by GM and many after-market manufacturers. If using a late model GM steering column or

an aftermarket column using the 4 1/4 in. GM turn signal connector, replace existing connector with connector "L" being sure to match wires by color. (See diagram G on sheet 2 if needed)

12 volt brake feed "in" from brake switch

Dark Green RH rear stop / turn Yellow LH rear stop / turn

12 volt keyed feed from turn flasher

Purple 12 volt battery feed from hazard flasher Brown

Dark Blue RH front turn

Light Blue LH front turn

White

Black

Horn relay ground wire to horn switch in column / steering wheel

Connect these wires to the neutral safety switch on the column or console shifter.

Purple 12 volt feed "in" to neutral safety switch from ignition switch. Purple 12 volt feed "out" to starter solenoid.

Connect these wires to the back up switch on the column or console shifter.

12 volt ignition feed "in" to back up lamp switch Pink

Lt Green 12 volt feed "out" to back up lamps

Note: See page 4 for exact placement of the wires in the proper connectors for either the 1968 or 1969 applications.

Red 12 volt battery feed

Pink 12 volt ignition feed Brown 12 volt accessory feed

Purple Starter lead wire to Neutral Safety Switch

Connect to a good chassis ground (Lighter and heater lamp grounds) Black

Radio accessory "on/off" feed (Keyed 12 volt power feed) Tan

Yellow Radio constant 12 volt clock or memory lead (Battery 12 volt power feed) Radio ground Black

These wires are for use on a console vehicle only! For wire functions, refer to bag K, 510112.

Orange Connect to lighter. (Battery feed)

Connect to lighter. (Ground feed) Black

Plug this connector into the mating connector from the courtesy lamp kit bag N, 500708.

Orange 12 volt battery feed fo lamp White Ground circuit for lamp

HEATER RESISTOR Plug this connector into the factory heater resistor located on top of the heater box on most non-A/C cars

21 **GLOVE BOX LIGHT** Orange Connect to the original factory glove box lamp switch. If not using, just tape back fishook connect to the main harness and insulate well

HEATER LAMP Heater lamp feed Gray Black

Plug this connector into the factory heater switch.

Brown 12 volt accessory feed to heater / ac switch (if using aftermarket a/c, use the short brown wire as the accessory feed wire to a/c harness. If a new factory A/C harness is needed, please

contact our Sales Department for the proper application for your car)

Yellow Heater resister Lt Blue Heater resister Orange Heater resister

American **Autowire**

1968-69 Chevelle **DASH KIT**

800-482-9473

Classic Update Series

*** These are special instructions for connecting your wiring system to a stock instrument cluster. *** (Note: This kit does not support the use of a stock ammeter.)

REFER TO THE ATTACHED DIAGRAMS FOR YOUR APPLICATION YEAR. USE THE ENCLOSED PARTS AND INFORMATION BELOW FOR WIRE TERMINATION AND GAUGE CONNECTION.

NOTE: If you are using aftermarket gauges, follow the instructions from the after market gauge package included in this kit (92965220).

CONNECTOR A

TAN Brake Warning Lamp DK BLUE Right Turn Indicator LT BLUE Left Turn Indicator LT GREEN Hi Beam Indicator Lamp TAN Fuel Gauge **BLACK** 69 Fuel Gauge Ground

DK BLUE Oil Gauge / Lamp DK GREEN Temp Gauge / Lamp WHITE Tach (loose wire)

BROWN Generator Lamp

(loose wire)

(loose wire)

Install components shown on the following sheets, and plug into the brake light hole in cluster.

Install components shown on the following sheets, and plug into the right turn indicator hole in the cluster. Install components shown on the following sheets, and plug into the left turn indicator hole in the cluster.

Install components shown on the following sheets, and plug into the high beam hole in cluster.

Install components shown on the following sheets, and plug into the fuel gauge.

This wire is plugged into the 69 only fuel gauge connector and will install as shown on sheets 5 or 6. Attach the loose end under the dashboard assembly, being certain that it is connected to a good known chassis ground.

Install components shown on the following sheets, and plug into the oil gauge or lamp. Install components shown on the following sheets, and plug into the temp gauge or lamp.

This wire is used on factory gauge applications. Install components shown on the following sheets, and plug into the tachometer.

This wire is used on warning lamp applications. This wire is stamped "ALT-IGN". Install components shown on the following sheets, and plug into the generator (alternator) lamp hole in cluster.

CONNECTOR B

PINK 12V ignition Install components shown on the following sheets, and connect to gauges or warning lights,

requiring a 12V ignition feed.

GREY Instrument Lamps Install components shown on the following sheets, and plug into the instrument lamps.

Connect to the back of the instrument cluster housing. Ground

This wire is stamped "PARK LIGHTS". Use this wire if you are using a Dakota Digital instrument cluster. **BROWN** Dakota Digital only

Connect to "PARK" light location according to manufacturer's instructions, in order to operate dimmer

function when headlights are turned on.

CONNECTOR C

BLACK

This connector is used when using an aftermarket electronic speedometer. Follow the manufacturer's instructions when installing these wires. Twist these two wires together for their entire length to prevent interference. If you are using the stock speedometer discard this connector.

Connect to VSS "-" on speedometer. YFI I OW Speedo Ground **PURPLE** Speedo Signal Connect to VSS input on speedometer.

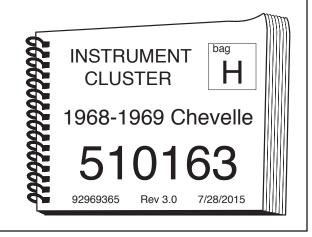
CONNECTOR C

CLOCK EXTENSION

This wire assembly will plug into your factory dash mounted clock.

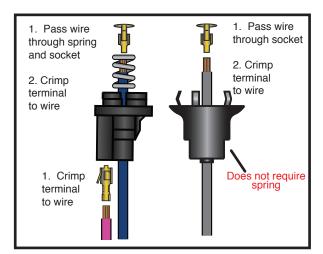
YELLOW Clock 12V battery power Connect this wire onto the power stud, on the back of your clock and to the Dash harness.

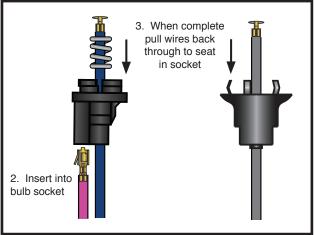




odate Series

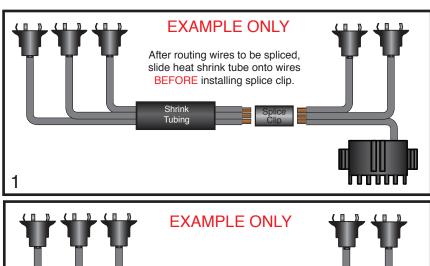
How to install lamp sockets and lamp socket terminals.

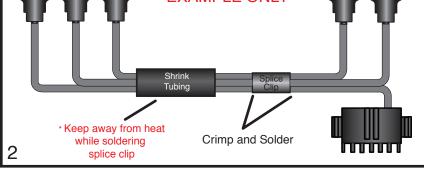


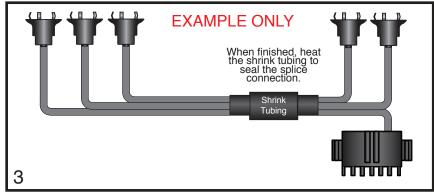


How to use the splice clip to join multiple wires.

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





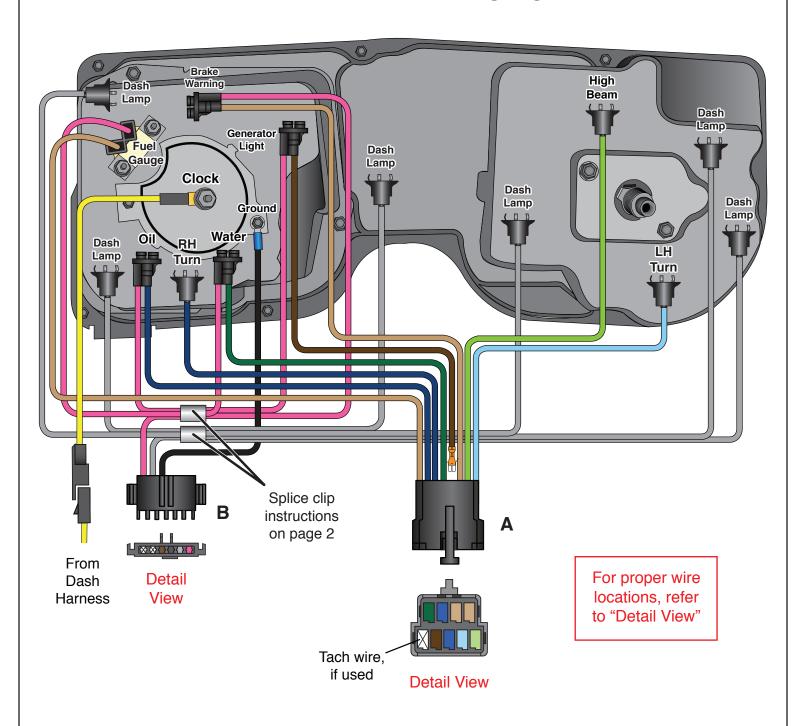




510163

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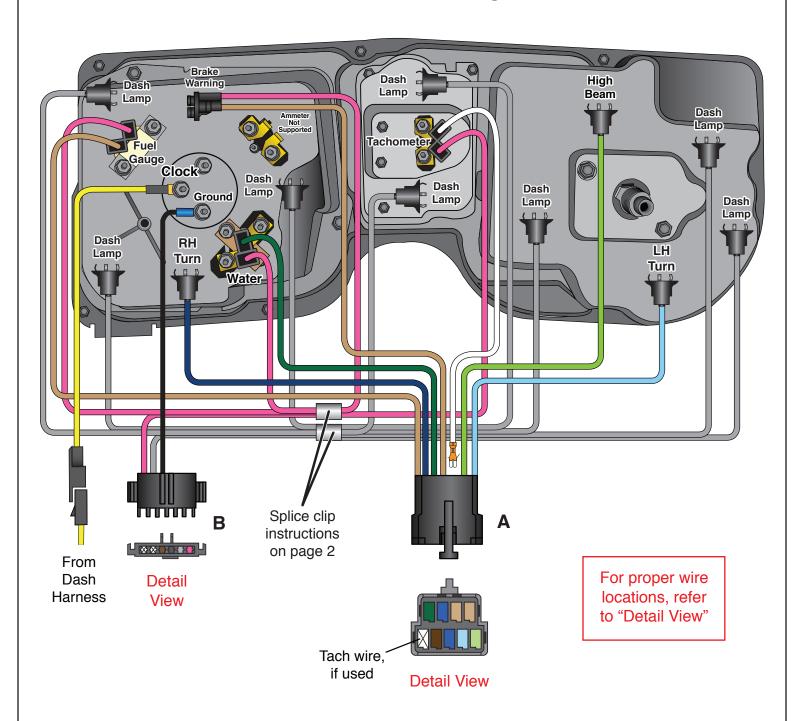
1968 Chevelle Warning Light





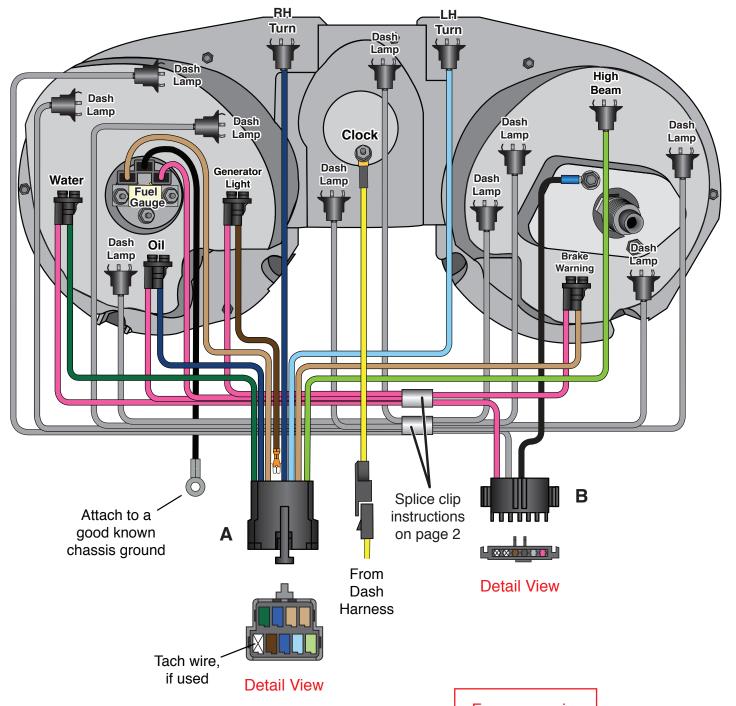
510163

1968 Chevelle Gauges





1969 Chevelle Warning Light

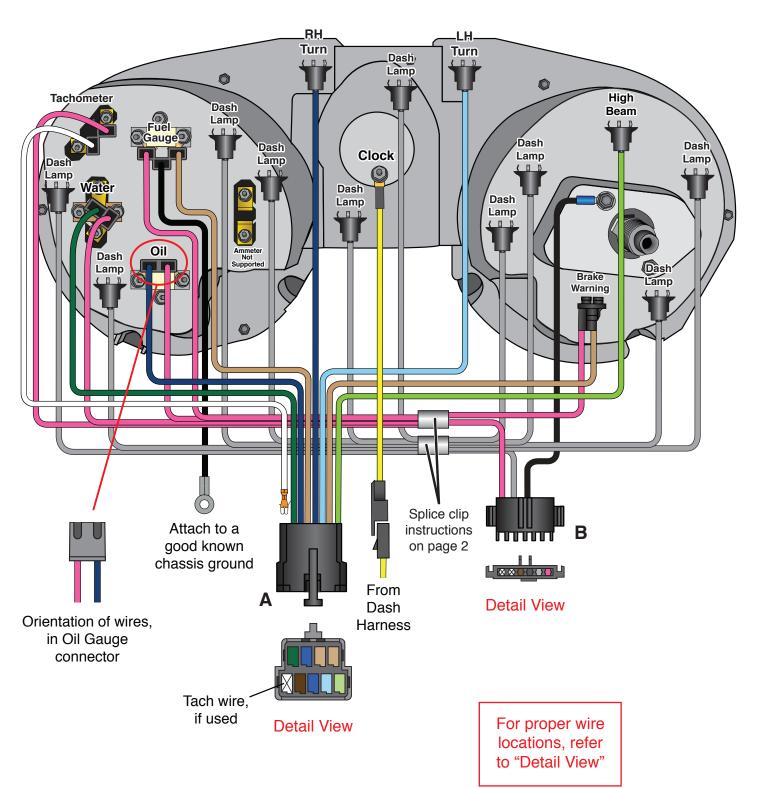


For proper wire locations, refer to "Detail View"



510163

1969 Chevelle Gauges



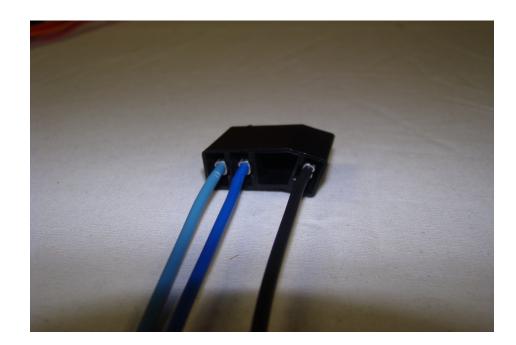


510163

92969365 Rev 3.0 7/28/2015



1968 wiper switch connection with depressed park



1968 wiper switch connection without depressed park

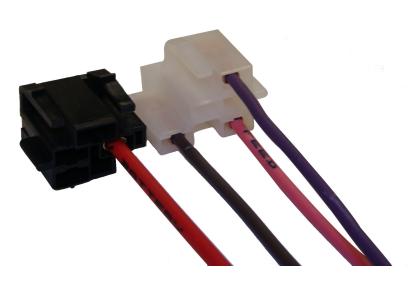


1968 ignition switch connection



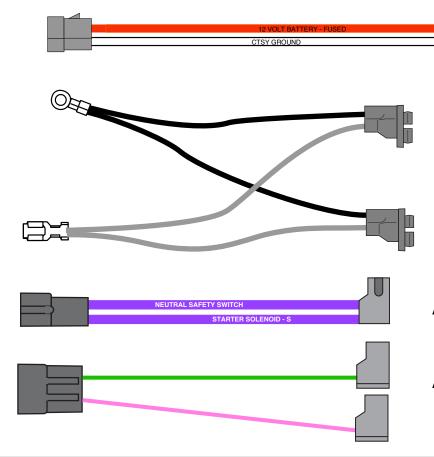
1969 wiper switch connection

On this page you will find the proper windshield wiper switch and ignition switch connections for all the 1968 and 1969 Chevelle models.



1969 ignition switch connection





Console Rear Courtesy Lamp Extension (All Applications)

Automatic Transmission Console Shifter Light Harness (uses 1895 bulbs)







Automatic Transmission Console Neutral Safety Switch Extension

Automatic Transmission Console Back Up Lamp Switch Extension



www.americanautowire.com 856-933-0801

NOTE: In this kit, you will find:

- 1. All the necessary extension harnesses, terminals, and connectors that are required to complete the installation of your factory console to your new AAW dash harness.
- 2. All the necessary terminals, and connectors that are required to connect the NSS and Back Up lamp wires found at locations 12 and 13 on page 3 of your dash harness (510107 for 1970-72 or 510160 for 1968-69) instructions to your column mounted NSS/ Back up lamp switch (Automatic on the column), or clutch mounted NSS and column mounted back up lamp switch (Manual transmission).
- 3. Simply follow the assembly directions on page 2 of this instruction set.



INSTALLATION DIRECTIONS

For Manual Transmission cars.

Console Courtesy lamp:

1. Plug this console rear lamp extension into the mating connector at location 17 on page 3 on your dash harness (510107 for 1970-72 or 510160 for 1968-69) instructions. Snap the lamp socket terminals into the original location at the back end of your console, then install your bulb (not included).

NSS and back up lamp switch connections:

- 2. Route the NSS and Back Up lamp wires found at locations 12 and 13 on page 3 of your dash harness (510107 for 1970-72 or 510160 for 1968-69) down to the base of the steering column near the firewall, and trim them to length.
- 3. For 1968 applications that did not use a NSS for manually shifted cars, you will need to connect these 2 purple wires together in order for the car to start. For 1969-72 applications that utilized a clutch pedal operated NSS, crimp terminals D onto the trimmed purple NSS dash wires, plug them into connector B, then plug this completed connection into your original clutch operated NSS extension (not included in this kit).
- 4. For 1968 applications that utilized a transmission mounted back up lamp switch, there should be a jumper harness with a rubber grommet molded onto one end of it that is snapped into your firewall with a 2-postion male connector on the opposite end. If you are missing this harness and switch, they may be purchased separately (CA70554 harness; 01993307 switch) from AAW. Take the light green and pink back up lamp wires from step 2 above, crimp terminals C onto the trimmed wires, plug them into connector A maintaining color continuity and function with the original jumper harness, then plug this completed connection into the 2-postion male connector from the jumper harness.
- 5. For 1969-72 applications that utilized a column mounted back up lamp switch, take the light green and pink back up lamp wires from step 2 above, crimp terminals C onto the trimmed wires, plug them into connector A in any order as indexing is not critical, then plug this completed connection onto the column mounted back up lamp switch.

For Console Shifted Automatic Transmission cars.

Courtesy lamp:

- 1. Plug the gray wire from the Automatic Transmission Console Shifter Light Harness into the open cavity on the Console Rear Courtesy Lamp Harness Extension. Snap the lamp socket terminals into the original location at the back end of your console, then install your bulb (not included).
- 2. Ground the ring terminals to the floor of the car in the stock location.
- 3. Plug the completed assembly into the mating connector at location 17 on page 3 on your dash harness (510107 for 1970-72 or 510160 for 1968-69) instructions.

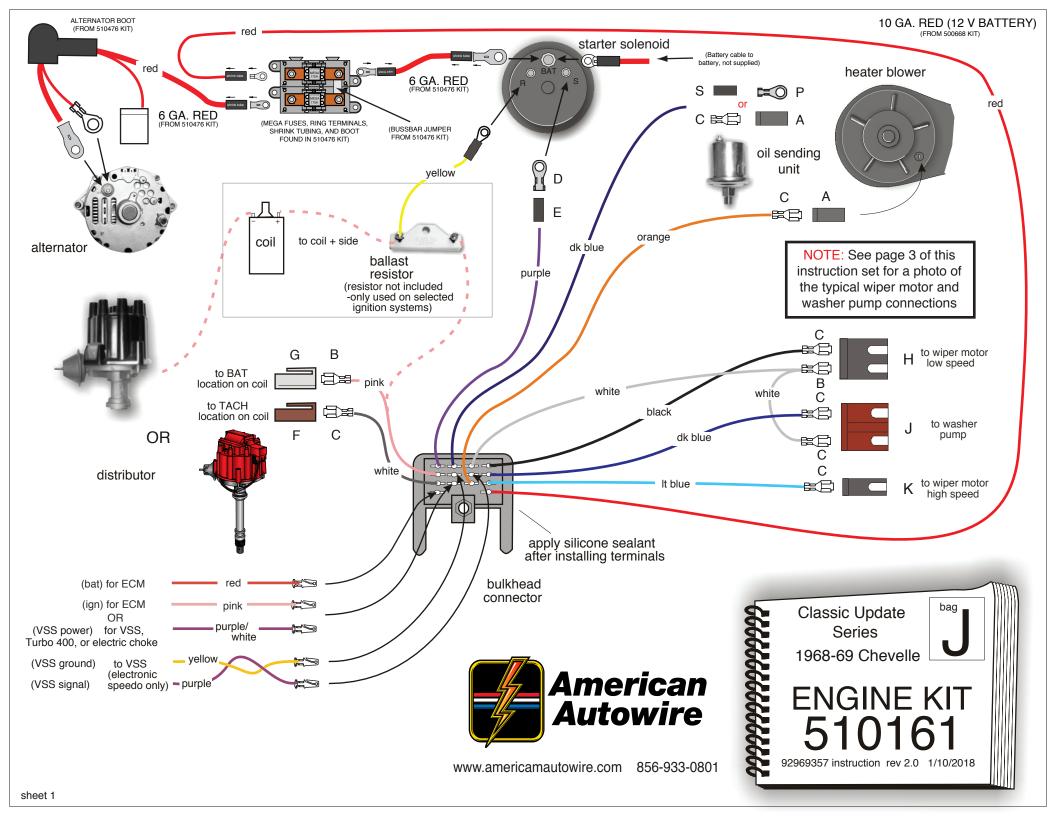
NSS and back up lamp switch connections:

- 4. Select the "Automitic Transmission Console Neutral Safety Switch Extension" (as shown on page 1) and plug the 90 degree 2-postion connector containing the purple wires onto the NSS connection on your shifter assembly.
- 5. Select the "Automitic Transmission Console Back Up Lamp Switch Extension" (as shown on page 1) and plug each of the two 90 degree single postion connectors containing the pink and light green wires onto the back up connections on your shifter assembly.
- 6. Route the NSS and Back Up lamp wires found at locations 12 and 13 on page 3 of your dash harness (510107 for 1970-72 or 510160 for 1968-69) down to the NSS and back up lamp extesion harnesses that you just installed onto the shifter, and trim them to length.
- 7. For the purple NSS wires, crimp terminals D onto the trimmed wires, plug them into connector B maintaining function with the dash harness (Solenoid vs. Neutral Safety), then plug this completed connection into the NSS extension from step 4.
- 8. For the light green and pink back up lamp wires, crimp terminals C onto the trimmed wires, plug them into connector A maintaining color continuity and function with the dash harness (back up vs. fused 12v ign), then plug this completed connection into the back up lamp extension from step 5.

For Column Shifted Automatic Transmission cars.

NSS and back up lamp switch connections:

- 1. Route the NSS and Back Up lamp wires found at locations 12 and 13 on page 3 of your dash harness (510107 for 1970-72 or 510160 for 1968-69) down to the base of the steering column near the firewall, and trim them to length.
- 2. Take the 2 purple NSS wires, crimp terminals D onto the trimmed wires, plug them into connector B n any order as indexing is not critical, then plug this completed connection onto the switch at the base of your steering column.
- 2. Take the light green and pink back up lamp wires, crimp terminals C onto the trimmed wires, plug them into connector A in any order as indexing is not critical, then plug this completed connection onto the switch at the base of your steering column.



TEMPORARILY, PLUG THE MAIN BULKHEAD CONNECTOR ON THIS HARNESS INTO THE MATING DASH BULKHEAD PLUG AT THE FIREWALL (LOCATED UNDER THE MASTER CYLINDER) AND TIGHTEN THE BOLT TO SEAT THE CONNECTOR. (Note: This will be unbolted and removed to install the front lamp portion of the harness at a later time. Once you have completed your installation, we recommend sealing all outside cavities with black RTV silicone sealant and coating the inside of the connector cavaties with die-electric grease.)

BULKHEAD / ENGINE CONNECTION:

RED (12V BATTERY) Use the Megafuse, ring terminal and shrink tubing from the 510476 kit. Route this wire to the Megafuse and cut to length. Connect as shown on page 1.

PURPLE (STARTER SOLENOID) Route this wire of DK. BLUE (OIL PRESSURE SENDER) Route this wire of the purple of the p

Route this wire to the starter solenoid, cut to length, install sleeve E and ring terminal D, then connect to "S" location on the starter solenoid. Route this wire to the oil pressure sender, cut to length, install ring terminal P, terminal C and connector A, or terminal Q and connector R, depending on your application, then connect completed wire to the sending unit.

ORANGE (HEAT/AIR)

Use only if running a stock heater without A/C. Route this wire to the blower motor, cut to length, install terminal A and connector C, then plug onto the blower motor unit.

PINK (12V IGNITION)

If using an HEI or aftermarket distributor/coil that requires a full 12 volt feed, route this wire to the coil or control unit, cut to length, install terminal C and connector A (or connector G if stock GM HEI unit), and plug into the ignition coil or unit.

If using a stock distributor and coil assembly that reuires a 9 volt feed, route this wire to a ballist resistor, cut to length, install sleeve E and ring terminal D, then connect to high tension side of the resistor. Take the cut off portion, install sleeve E and ring terminal D, connect to low tension side of the resistor, route the loose end of this wire over to the coil, cut to length, install sleeve E and ring terminal D, and connect to the "+" side of the stock coil.

YELLOW

Used only with a stock distributor and coil assembly. Install sleeve S and terminal P onto wire, connect to low tension side of ballist resister (as shown on sheet 1), route the loose end of the wire down to the starter solenoid, cut to length, install sleeve S and terminal P, and install onto the "R" location of the starter solenoid.

WHITE (COIL-TACH)

If using an HEI or aftermarket distributor/coil, route this wire to the coil or control unit, cut to length, install terminal C and connector A (or F if stock GM HEI unit), and plug into the tach location of the ignition coil or unit.

If using a stock distributor and coil assembly, route this wire to the coil, cut to length, install sleeve S and ring terminal P, and connect to the "-" side of the stock coil.

ALTERNATOR CONNECTION:

HEAVY RED (NO PRINTING)

Use the 6ga red wire, boot and ring terminal from the 510476 kit, route from alternator to the Megafuse and cut to lengh. Connect as shown

on page 1.

SMALL RED (NO PRINTING) Send ring terminal through boot L as shown on sheet 1 and install both completed red wires onto battery stud at the alternator. **DO NOT INSTALL THE WHITE PLUG WITH RED WIRE YET AS YOU MUST INSTALL THE BROWN ALTERNATOR EXCITER WIRE FROM THE FRONT LAMP HARNESS INTO THE EMPTY CAVITY PRIOR TO INSTALLING THIS PLUG INTO THE ALTERNATOR.**

REMAINING LOOSE WIRES: Note: These wires will be plugged into the bulkhead connector assembly as shown on sheet 1 only if you are utilizing an electronic speedometer, an electric choke, a Turbo 400 transmission, or an ECM under the hood requiring 12V battery and/or fused ignition power. You may only use one or the other of the PINK 12V Ignition or PURPLE/WHITE VSS wires, not both.

RED (12V BATTERY) PINK (12V IGNITION) PURPLE/WHITE (VSS POWER)

(SIGNAL)

(GROUND)

Used as an unfused battery power feed for an underhood ECM on any fuel injected car.

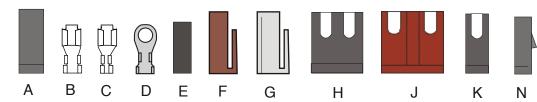
Used as a fused ignition power feed for an underhood ECM on any fuel injected car.

This wire is your separate 12 volt ignition power source to feed a 3 wire VSS unit, an electric choke, or a Turbo 400 kickdown switch.

P

This wire is the signal wire for your 2 or 3 wire VSS unit.

This wire is your ground circuit for your 2 or 3 wire VSS unit.





ENGINE KIT 510161

92969357 instruction rev 2.0 1/10/2018

PURPLE

YELLOW

WINDSHIELD WIPER WIRES

Terminal and connectors to make the proper connections on a stock wiper system are shown on page 1 of this instruction set. A photo of the completed connections installed onto a stock wiper and washer assmbly are shown to the right. If using an after-market wiper system, follow the manufacturer's instructions.

BLACK (WIPER LOW SPEED)

DARK BLUE (WIPER WASHER)

LIGHT BLUE (WIPER HIGH SPEED)

WHITE (WIPER FEED)

Route this wire to the wiper motor and trim to length. Install terminal C, and plug into connector H as shown on page 1 of this instruction set. Route this wire to the wiper motor and trim to length. Install terminal C, and plug into connector J as shown on page 1 of this instruction set. Route this wire to the wiper motor and trim to length. Install terminal C, and plug into connector K as shown on page 1 of this instruction set. Route this wire to the wiper motor and trim to length. Double this wire with the cut off portion, install terminal B, and plug into connector H as shown on page 1 of this instruction set. Route the loose end of the cut off portion to the washer pump and trim to length. Install terminal C, and plug into connector J as shown on page 1 of this instruction set.

with depressed park (hidden wipers)



The photo above depicts the typical stock 1968-1969 Chevelle or El Camino wiper motor and washer pump connections with a "depressed park" motor (hidden wipers). Where you see a black wire with a yellow stripe in the photo (red arrows), that would be equivalent to the AAW white "wiper feed" power wire.

w/o depressed park (non-hidden wipers)

NO IMAGE AVAILABLE AT THIS TIME

Sorry, but at this time, we do not have a photo of the "non-depressed park" wiper motor (non-hidden wipers).



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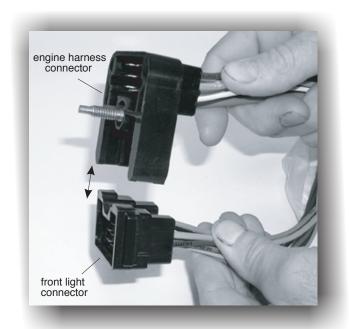
ENGINE KIT 510161

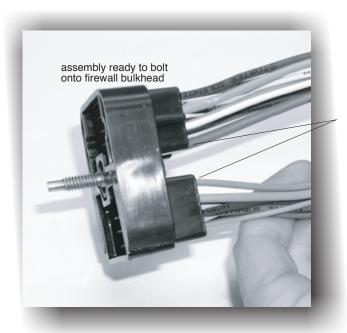
92969357 instruction rev 2.0 1/10/2018

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ENGINE KIT 510161





apply silicone sealant to back side of connector after installing terminals

The bulkhead connector from this front light kit must snap into the mating engine connector (bag J), as shown. After snapping together, then bolt the assembly into the dash harness firewall connector using the attached bolt.

Look!





American Autowire 800-482-9473

American Autowire also sells factory OEM style harness wrap. this is the same stuff used on original Camaro harnesses! If you want that OEM look with your Classic Update wiring system, then give us a call and order p/n R0067108!



right headlights recommended fan relay to electric Series orange (not included in this kit) fan It green Ε **←**□∷ to horn dk green to ground to horn D It green bulkhead connector tan Jpdate dk green temperature # to ground sending unit -D==© apply silicone sealant rh side to back side of connector marker **301** after installing terminals to brake pressure Ν sending unit to ground brown left headlights RH parking lamp assembly (not included) D Μ dk blue D brown Н D M It blue lassic D Н LH parking lamp assembly brown (not included) brown Q Ih side marker Ī=O to ground existing red wires from engine kit bag J Ν red шш D brown 1968-69 Chevelle Front Light American **Autowire** alternator 800-482-9473 sheet 2 92969361 instruction rev 0.0 1/13/2010

Jpdate

1968-1969 Chevelle Front Lighting Connect the bulkhead connector from this kit onto the bulkhead connector from the engine kit (bag J), and bolt to the firewall dash bulkhead. PARKING LAMP WIRES LT BLUE LH turn Route this wire to the LH turn signal lamp, cut to length, install terminal J and plug into connector H, as shown on sheet 2. DK BLUF RH turn Route this wire to the RH turn signal lamp, cut to length, install terminal J and plug into connector H, as shown on sheet 2. **BROWN** Parking Lamp Route this wire to the LH side marker lamp and cut to length. Double this wire with the cut off portion, install terminal Q, and plug into connector N. Also plug the pre-assembled black ground wire into connector N as shown on sheet 2. Route the remaining portion of the brown wire to the LH turn signal lamp, cut to length, double this wire with the cut off portion, install terminal M and plug into connector H with the lt blue wire from above. Route the remaining portion of the brown wire to the RH turn signal lamp, cut to length, double this wire with the cut off portion, install terminal M and plug into connector H with the dk blue wire from above. Route the remaining brown wire to the RH side marker lamp, cut to length, install terminal P and plug into connector N. Also plug the other pre-assembled black ground wire into connector N, as shown on sheet 2. NOTE: Your parking and directional lights use factory pre-assembled parking lamp housing assemblies that are not serviceable. We have provided terminals D and connectors F in case the factory ends have been cut from your lamp assemblies. Install as needed then plug your factory assemblies into connectors H from above. FRONT LIGHT WIRING TAN (heavy gauge) Lo Beam Route this wire to the driver side outer headlight, cut to length, double this wire with the cutoff portion, install terminal B, and plug this terminal into connector A in the location shown on sheet 2. Route the remaining portion of this TAN wire to the passenger side outer headlight, cut to length, install terminal C, and plug into connector A in the location shown on sheet 2. LT GREEN Hi Beam Route this wire to the driver side outer headlight, cut to length, double this wire with the cutoff portion, install terminal B and plug into connector A in the location shown on sheet 2. Route the remaining portion of this It green wire over to the driver side inner headlight, cut to length, double it with the cutoff portion, install terminal B. and plug it into connector T in the location shown on sheet 2. Route the remaining portion of this It green wire over to the passenger side inner headlight, cut to length, double it with the cutoff portion, install terminal B, and plug it into connector T in the location shown on sheet 2. Route the remaining portion of this It green wire over to the passenger side outer headlight, cut to length, install terminal C, and plug it into connector A in the location shown on sheet 2. **BLACK** Ground Bolt the grounding ring to your core support then route this wire to the driver side outer headlight and trim to length. Once cut, unbolt the ring terminal, remove the wire and double it with the cutoff portion, install terminal B,

and plug into connector A in the location shown on sheet 2. Route the remaining portion over to the driver side inner head light, cut to length, install terminal C, and plug it into connector T in the location shown on sheet 6. Tightly re-attach the grounding ring to the core support. Repeat this process for the passenger side.

Route this wire to a horn, cut to length, double it with the cutoff portion, install terminal E, and plug into connector L as shown on sheet 2. Route the remaining portion of this dk green wire to your other horn, cut to length, install terminal D, and plug into connector L as shown on sheet 2. Plug each of the connectors onto a horn.



1968-69 Chevelle Front Light

M

Ν

Q

 $\square\square$

DK GREEN

Horn

Series Classic

1968-1969 Chevelle Front Lighting

ORANGE	Electric Fan	Route to the electric fan relay, and connect per manufacturers instructions
		NOTE: We recommend that this wire be used as the trigger wire for the electric fan relay.
TAN (small gauge)	Brake Sender	Plug this wire with the 90 degree molded rubber end onto the stock brake sender switch.
DK GREEN	Water Temp	Connect this wire to the temperature sending unit using terminal R, or terminal D and connector S (depending on your sending
		unit).
BROWN	Alternator	Route this wire to the alternator and cut to length. Install terminal D and plug into the white alternator regulator connector
	Regulator	(previously installed from the engine kit 500668 bag J).

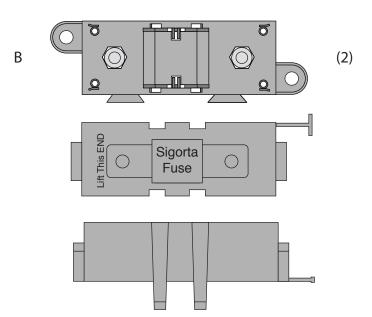
NOTE: This wire is only used on an alternator with an internal regulator which uses an exciter wire. If you are using a true one wire alternator, then this BROWN wire can be removed and not used.

After all wires are installed from this kit, the main connector should have die-electric grease applied to the terminals. Also, to assure a moisture resistance seal, apply silicone sealant to the outside of the main connector around each wire.



(144.0" 6 Gauge charge wire)

Α



(Megafuse body, cover and two M8 x 1.25 nuts / lock washers)

C (175 amp Megafuse) G

D (1) (Megafuse jumper) H

E (Alternator boot)

F (cut into six 1.0" pieces)

- 1. One this page, you will find the wire, fuse bodies, fuses, boot, ring terminals, and shrink tubing (items A through K) that are necessary to connect your alternator and main power feed for your new AAW wiring kit. Please be sure that all of the necessary components are present before starting this portion of your installation. If anything is missing, stop what you are doing and contact AAW at the number listed below right away.
- 2. On page 2, you will find directions for building the 2 Megafuse assemblies (items B,C and D) into one unit.
- 3. On page 3, you will find an overall concept of how to connect the Megafuse assemblies to your starter solenoid, alternator and main power feed of your new wiring system.
- 4. On page 4, you will find tips on building your charging circuit wires and assembling them and the main panel power feed wire to the Megafuse assembles.



(6Ga. starter ring terminal)



(6Ga. megafuse terminal)



(6Ga. alternator terminal)



(10Ga. megafuse terminal)



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PART#

510476

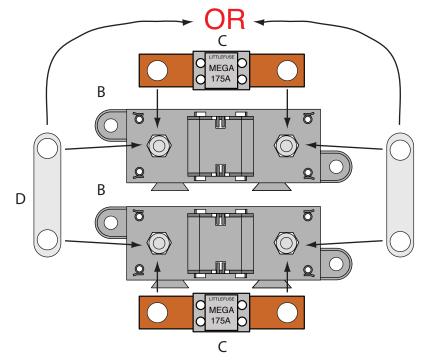
Z

DESCRIPTION:

Alternator and Main Power
Connection Kit
Various Applications

92972153 instruction sheet rev 0.1 6/24/2019

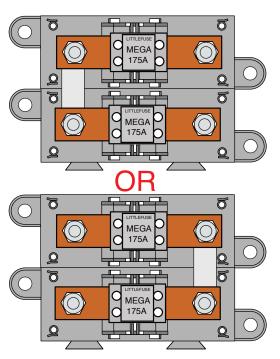
Page 1



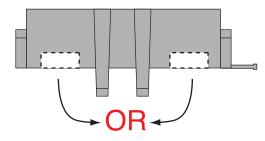
Assembling the (2) Megafuse assemblies

NOTE: Find a suitable place, as close to the battery power source as possible, under the hood of the your vehicle to mount the completed Megafuse assemblies. Keep in mind that you have 12 feet of 6Ga. charging wire, and that the main power feed coming from your panel or bulkhead connection must also be able to reach the assembly.

- 1. Take the two Megafuse bodies and covers (items B) and snap them together. Remove the 4 nuts and lock washers from the studs on the fuse body assemblies.
- 2. Install the Megafuse jumper (item D above) over two of the studs on the Megafuse bodies. It is very important that the jumper MUST BE assembled on the side that is going to connect to your main power connection (starter solenoid or battery feed).
- 3. Notch top cover to clear jumper D as shown at right.
- 4. Snap one 175amp fuse (items C) onto the studs of each of the two Megafuse bodies (items B), over the jumper, then loosely re-attach the 4 nuts and lock washers back onto the assembled Megafuses. The fuse assemblies are ready to install into your vehicle. Page 2



Assembled Megafuses



Notched Cover

PART#

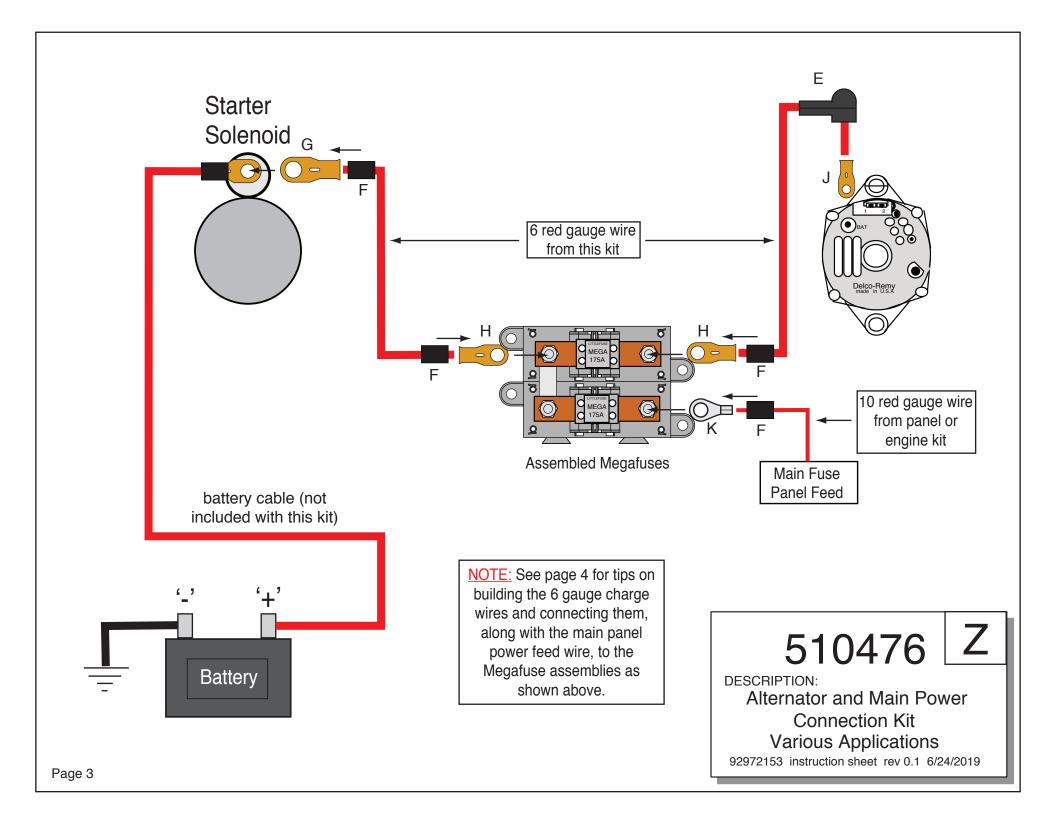
510476

Z

DESCRIPTION:

Alternator and Main Power
Connection Kit
Various Applications

92972153 instruction sheet rev 0.1 6/24/2019



Building the 6Ga. charge wires and connecting them and the main panel power feed wire to the Megafuse assemblies:

NOTE: Make sure that your battery is disconnected! You will need to install the preassembled Megafuses from page 2 in your vehicle to start this part of the installation.

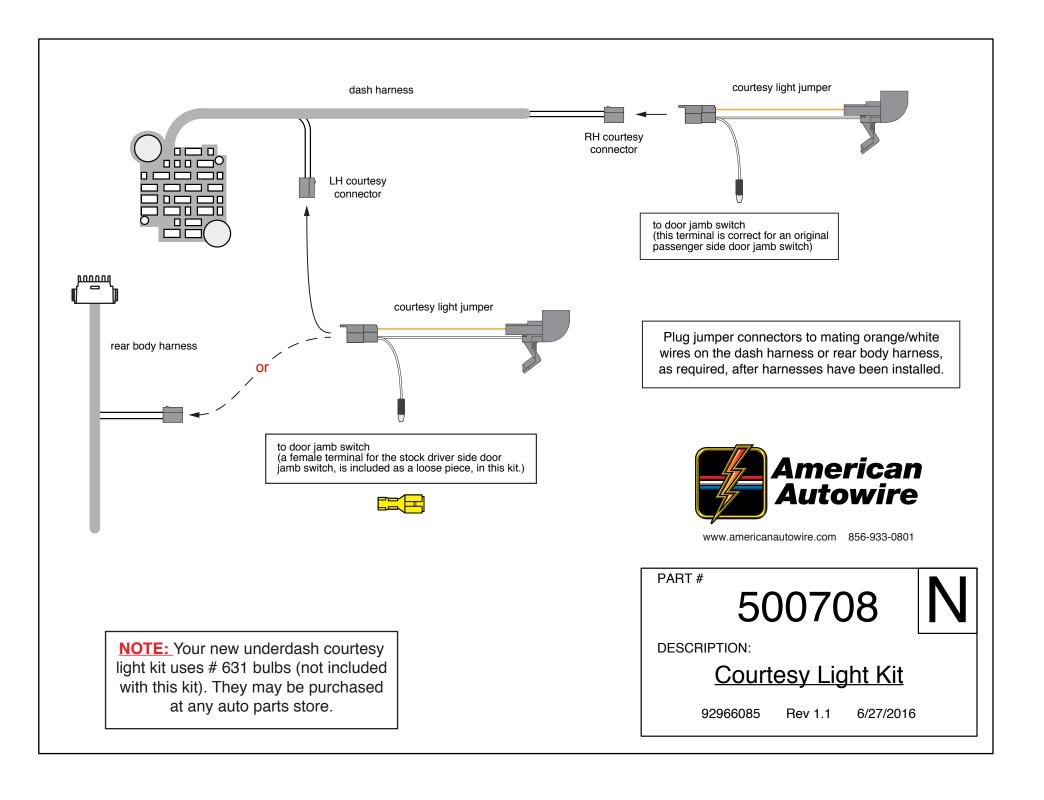
- 1. Pre-cut item F shrink tubing into (6) 1.00" 1.25" pieces.
- 2. Take the 12-foot piece of 6Ga. red wire from this kit and route it from your starter (or other battery feed) over to the area where you have mounted your Megafuse and cut it to length. Strip the insulation on each end back 1/2". Install 2 pieces of shrink tubing F onto the wire. At the starter end, crimp and solder (1) of terminal G onto the wire. At the Megafuse end, crimp and solder (1) of terminal H onto the wire. Slide the shrink tubing over the terminals and heat it up to shrink it down.
- 3. Take the remaining portion of the 12-foot piece of 6Ga. red wire from this kit and route it from your alternator over to the area where you have mounted your Megafuse and cut it to length. Strip the insulation on each end back 1/2". Install 1 piece of shrink tubing F onto the wire. At the alternator end, slip on boot E as shown on page 3, then crimp and solder (1) of terminal J onto the wire. At the Megafuse end, crimp and solder (1) of terminal H onto the wire. Slide the shrink tubing over terminal H and heat it up to shrink it down.
- 4. Take the 10Ga. red main power feed wire from your engine or panel sub-kit and route it over to the area where you have mounted your Megafuse and cut it to length. Strip the insulation back 3/8". Install 1 piece of shrink tubing F onto the wire, then crimp and solder (1) of terminal K onto the wire.
- 5. Remove the 4 loosely tightened nuts and lock washers from the assembled Megafuses, then using the drawing on page 3 as a guide, install your pre-assembled wires from steps 2-4 above. Re-install the 4 nuts and lock washers onto the assembled Megafuses and tighten them down. This part of your installation is now complete.

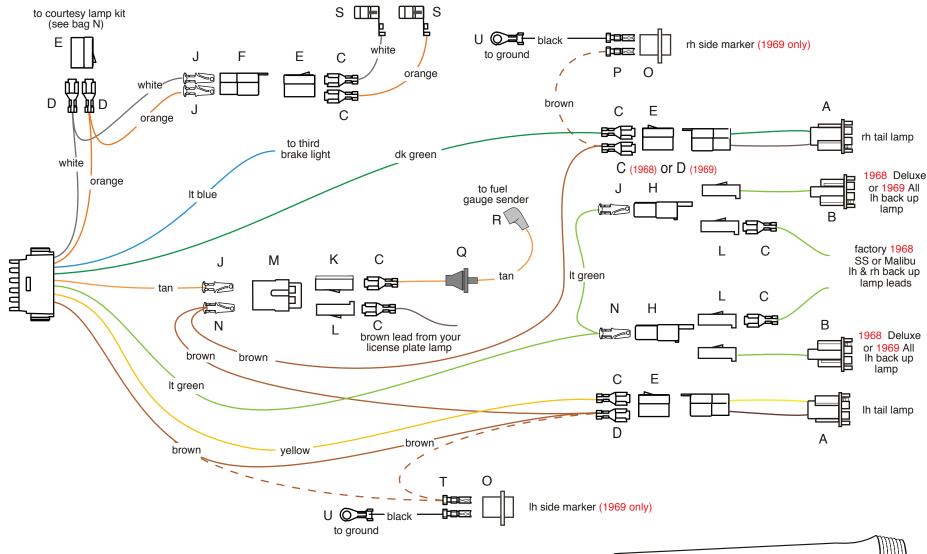
510476 | Z

DESCRIPTION:

Alternator and Main Power Connection Kit **Various Applications**

92972153 instruction sheet rev 0.1 6/24/2019





1968-69 Chevelle coupe, convertible, and sedan models



800-482-9473



sheet 1

1968-69 Chevelle Coupe, Convertible, and Sedan models

Connect the main connector to the mating connector on the dash harness 510160 bag G. Route this harness along door sill and into the trunk. LIGHT BLUE Third brake light Connect to the third brake lamp, if equipped. Route this wire to the rear panel of the trunk (near the trunk lock) and trim to length. Install terminal J and plug into TAN Fuel signal connector M as shown on sheet 1. TAN Fuel Tank lead Plug the rubber end of wire R onto the sending unit at the fuel tank. Slide grommet Q onto the wire with the narrow end of the cone shaped grommet pointing toward the trunk floor, route the other end of this wire up through the factory hole in the trunk floor and snap the grommet into place in that hole. Route the loose end of this wire over to connector M, cut to length, install terminal C and plug into connector K as shown on sheet 1. Plug the assembled lead into connector M to complete the fuel tank sender connection. **BROWN** Running lamps (1968) Route this wire to the LH tail lamp, cut to length, double this wire with the cut off portion, install terminal D and Ε plug into connector E in the location shown on sheet 1. Route the loose end of this brown wire to the license lamp area, cut to length, double this wire with the cut off portion, install terminal N and plug into connector M in the location shown on sheet 1. Route the loose end of this brown wire to the RH tail lamp, cut to length, install terminal C F and plug into connector E in the location shown on sheet 1. (1969) Route this wire to the LH side marker lamp, trim to length, double this wire with the cut off portion, install terminal T and plug into lamp socket O as shown on sheet 1. Route the loose end of this brown wire to the LH tail lamp, cut to length, double this wire with the cut off portion, install terminal D and plug into connector E in the location shown on sheet 1. Route the loose end of this brown wire to the license lamp area, cut to length, double this wire with the cut off portion, install terminal N and plug into connector M in the location shown on sheet 1. Route the loose end of this brown wire to the RH tail lamp, cut to length, double this wire with the cut off portion, install terminal D and plug into connector E in the location shown on sheet 1. Route the loose end of this brown wire to the RH side marker lamp, cut to length, install terminal P and plug into lamp socket O as shown on sheet 1. (New terminal C and connector L have been provided for your license lamp lead in the event that your original lead needs repair.) **BLACK** Side Marker Ground (1969) There are two loose black wire assemblies U in this kit. Plug one into each of the rear side marker lamp sockets O and route the loose end with the ring terminal to the rear panel support (near the trunk lock assembly) and attach them into the sheet metal. **YELLOW** LH Stop / Tail Route this wire to the LH tail lamp, cut to length, install terminal C and plug into connector E as shown on sheet 1. Plug LH pigtail A (yellow and brown wires) into this connection to complete the LH stop and tail connection. DK GREEN RH Stop / Tail Route this wire to the RH tail lamp, cut to length, install terminal C and plug into connector E as shown on sheet 1. Plug RH pigtail A (dk green and brown wires) into this connection to complete the RH stop and tail connection. LIGHT GREEN Back up lamp feed Route this wire to the LH back up lamp, cut to length, double this wire with the cut off portion, install terminal N and plug into connector H as shown on sheet 1. Route the loose end of this It green wire to the RH back up lamp, cut to length, install terminal J and plug into connector H as shown on sheet 1. (On 1968 SS or Malibu cars where the back up lamp is mounted in the rear bumper, the pigtail wire leads from your factory assembled back up lamps will plug directly into the back up lamp connections you just made completing the back up circuit on your car. New terminals C and connec tors L have been provided in case your originals are damaged. For 1968 Chevelle Deluxe models where the back up lamp is mounted inboard of the tail lamp and for all 1969 cars, we have included a back up lamp pigtail B for you to plug into the back up lamp connections you just made completing the back up circuit on your car.) WHITE Courtesy ground At the driver's side kick panel area, cut this wire, double it with the cut off portion using terminal D and plug into connector E maintaining color continuity with the mating connector in the courtesy lamp kit (bag N). If you are using a dome lamp, route the loose end of this wire to the rear pillar area of the trunk, cut to length, install terminal J and plug into connector F in location shown on sheet 1. (Note: a factory dome lamp harness will also plug into this connector if you are not replacing the headliner at this time.) Install the loose white wire S (supplied with terminal installed) into the dome lamp housing. Route this wire to connector F (on white wire) location, trim to length, install terminal C and into plug connector E maintaining color continuity with the white wire in connector F. **ORANGE** Courtesy Lamp Feed At the driver's side kick panel area, cut this wire, double it with the cut off portion using terminal D and plug into connector E maintaining color continuity with the mating connector in the courtesy lamp kit (bag N). If you are using a dome lamp, route the loose end of this wire to the rear pillar area of the trunk, cut to length, install terminal J and plug into connector F in location shown on sheet 1. (Note: a factory dome lamp harness will also plug into this connector if you are not replacing the headliner at this time.) Install the loose orange wire S (supplied with terminal installed) into the dome lamp housing. Route this wire to connector F (on orange wire) location, trim to length, install terminal C and plug into connector E maintaining color continuity with the orange wire in connector F.

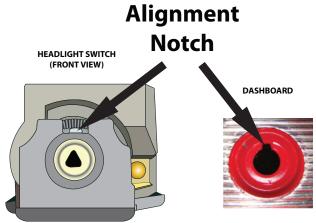
sheet 2

Most switches supplied with Classic Update and Universal Kits ship with the shaft pre-installed. In many instances, the switch can be installed without removing the shaft, but in some cases the switch shaft may need to be trimmed to fit your specific dash. In this situation, reference Trim to Fit instructions on the back of this page for details.

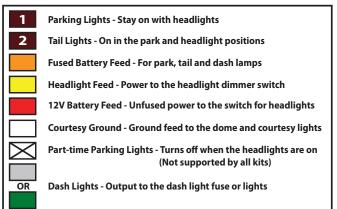
DASHBOARD DASHBOARD DASHBOARD

To install your new headlight switch:

1. Install the switch from behind the dash, and align the switch body with the mounting hole. The switch body has an alignment tab that must line up with the notch in the dashboard mounting hole.



- **2.** Install the switch mounting nut and tighten.
- **3.** Gently press shaft into switch until it stops, then press firmly until it "clicks." Pull shaft back out to confirm it is seated correctly. The shaft should be locked into place inside switch.
- **4.** If the shaft does not lock, reinsert applying moderate pressure and slowly move shaft side to side for lock to engage. Make sure switch body is still supported to prevent flexing. Press shaft firmly until it clicks into place.
- **5.** Ensure the shaft is fully seated and in the off position.





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PART#

500332

DESCRIPTION:

Headlight Switch

92964649 Rev 3.0 1/10/2020

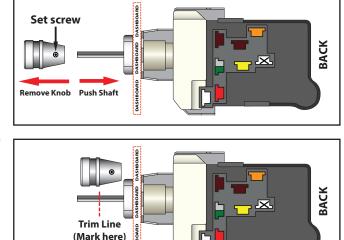
To Trim Shaft to Fit or Remove Shaft:

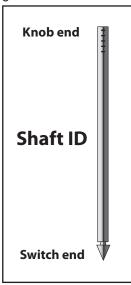
The headlight shaft knob should extend from the face of the mounting nut, and must allow enough clearance for the switch to turn off. If the shaft is longer than necessary for your specific dash it can be trimmed to fit. Always trim the knob end of the shaft only and follow the guidelines below for best results.

1. With the headlight switch installed, loosen the set screw and remove the knob. Make sure the switch is in the "off" position by pushing the shaft toward the back of the switch.

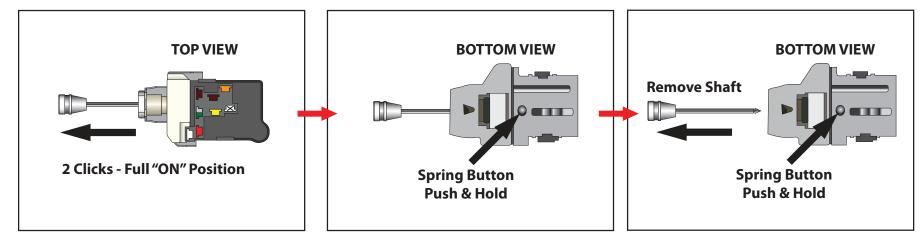
Switch in OFF position (shaft pushed all the way in)

2. Set knob alongside shaft and mark the desired location for cutting on the shaft.

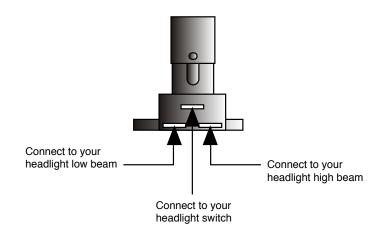




3. Remove the shaft and trim at mark. The shaft can be released from the switch by pulling it outward (toward the rear of the vehicle). Once fully in the "On" position, press and hold the release button on the base of the switch body. Once button is pressed, continue to pull the shaft outward. New switches may be tight, and it might be necessary to move the shaft side to side slightly while pulling to release.



Page 2



Connect the Dimmer Switch wires as shown above.

- 1. The top center terminal of the Dimmer Switch is connected to the Headlight switch.
- 2. The terminal on the right side is connected to your headlight high beam terminal.
- 3. The terminal on the left side is connected to your headlight low beam terminal.

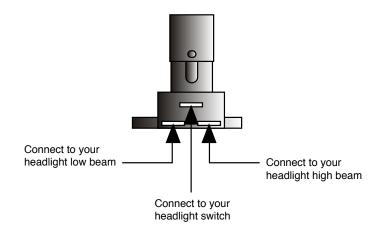


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DESCRIPTION:

DIMMER SWITCH

92964573 Rev 3.1 12/5/2014



Connect the Dimmer Switch wires as shown above.

- 1. The top center terminal of the Dimmer Switch is connected to the Headlight switch.
- 2. The terminal on the right side is connected to your headlight high beam terminal.
- 3. The terminal on the left side is connected to your headlight low beam terminal.



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