

Main Fuse Panel Installation Instructions

The Main Fuse Panel harness is designed to be mounted under the dash to the left of the original fusebox / bulkhead pass thru hole in the firewall. Below, you will find a picture showing the fusebox mounted in an actual car. Once mounted in the firewall, the harness will route exactly as the original did. The technical narative representations of the main dash harness on the following pages show each circuit branch and identifies each connection by its color, circuit number, and function. Follow these as well as the detailed drawing on pages 7 and 8 for the individual circuit connections to complete your installlation.

Circuit Branch 1- Under Dash connections

Wire Wire color Printing Procedure

Dimmer Switch connector.

152A

33

15C

300

9A

Black

Tan

Dark Green

Light Blue

Dark Blue

Orange

Brown

14B,C Light Blue 15B,C Dark Blue

Light Green

Brake Pressure Differentail Switch

Yellow Dimmer Switch Feed Connect to Dimmer Switch 11A,B Light Green Headlight Hi Beam Connect to Dimmer Switch 12A Headlight Low Beam Connect to Dimmer Switch.

Left Hand Dome Lamp Feed Wires.

53C,D Light Blue 12V Ctsy Sw Connect to Left Hand door jamb switch provided in the 510181 parts kit. 40E Orange 12V Battery Fused Connect to Left Hand door jamb switch provided in the 510181 parts kit. Light Blue 12V Ctsy Sw Connect to Left rear dome lamp. 156D White Ctsy Ground

Connect the bullet terminal end to the left rear dome lamp. The ring terminal end must be connected

to a good chassis ground.

Circuit Branch 2- Front Lighting connections See page 7, "Figure A" for typical connections. Loose piece terminals and connectors are located in kit 510181.

Wire # Wire color **Printing**

Relay Pack

The 4 gang relay panel is directly wired and requires no internal wiring. The only connection required is to attach the relay ground wire (152A) to a good chassis ground. Two relays control the headlight low beam and high beam circuits allowing for the use of high powered halogen lamps without creating an extra load on the factory headlamp and dimmer switches. A third relay controls the fog or driving lamp circuit and automatically shuts the fog or driving lamps off whenever the high beam lamps are applied in accordance with 50 state Federal law. The last relay is for vour horn circuit.

Washer Pump Feed

Ground

Brake Switch

Left Front Turn

Left Front Turn

Right Front Turn

Headlight-Low Beam

Fog Lamps

Flectric Fan

Park Lights

11C Light Green Headlight-Hi Beam

Horn

Right Front Turn

Connect to a good chassis ground. Route this wire to your washer pump. This is the switched 12 volt feed to operate the pump. You will need to use

your original ground wire assembly from your pump.

(NOTE:) We have provided you with the connection to the original Ford brake warning switch in the form of a wire extension assembly (wires 33A, B on page 1 of this instruction sheet). You will plug this extension onto wire 33,

Route this wire to the brake warning switch area near the master cylinder, cut to length, install terminal B, plug into connector E as shown on page 7, figure A, then plug this wire into wire extension assembly 33A, B (from page 1 of this instruction sheet) to complete your brake warning circuit.

This is the connection for the hood scoop mounted directional lights. Mating connector and terminals "B and F" to complete this branch can be found in the 510179 loose piece dash kit if you are using a stock hood with these lamps. Connect to the horn power terminal. NOTE: If your horn has a separate ground terminal, you must supply the wire for that ground terminal as it is not included in the kit. A stock horn is self grounding through it's case and bracket. Connect to the left front directional lamp socket. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the high intensity filament of the LH front running light.

Connect to the right front directional lamp socket. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the high intensity filament of the RH front running light.

This is the 12 volt ignition feed to be connected to the trigger wire on your electric fan relay.

Connect to both the front park / running and side marker light sockets. If you are using a single front directional light with an 1157 or dual filament bulb, this wire would be connected to the low intensity filament of each of the front running lights. An in-line splice of this wire or a double up of this wire at the left front parking lamp will be necessary to accommodate the wiring of both of the front park / running lights. Connectors, terminals, and lamp sockets have

been provided to make the necessary connections and can be found in the 510181 parts kit.

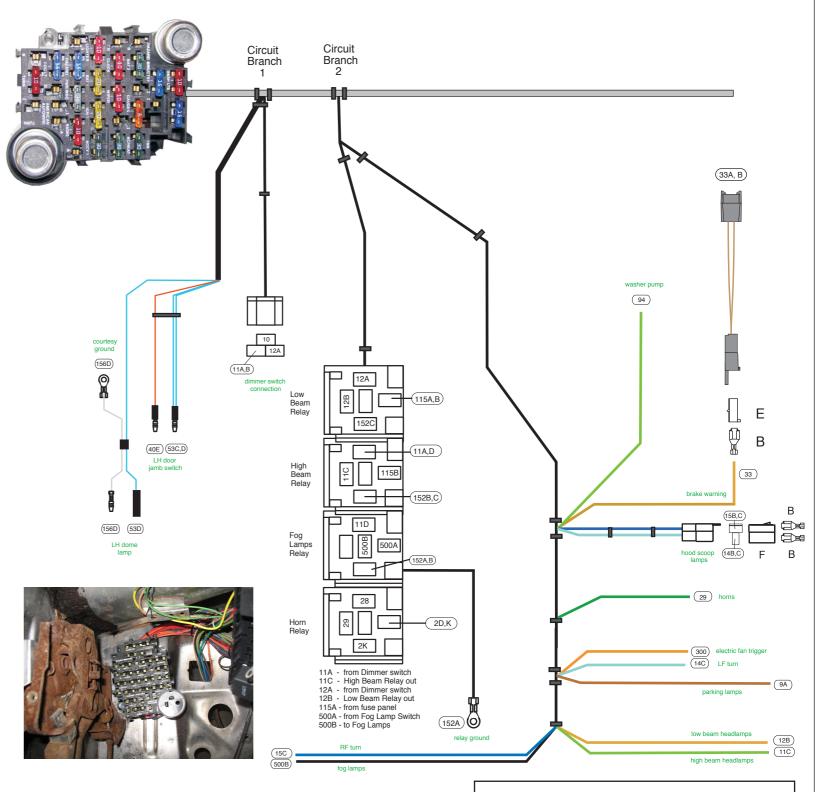
Using the terminals and connectors supplied in bag 510181, connect these wires along with the headlight ground wires to the headlight connectors according to the orientation in the diagram on page 7. Figure A. Select the light green Headlight Hi Beam wire (11C), route to the LH outer headlamp, cut to length, double with the cut off portion using terminal W, and plug into connector A as shown on sheet 7. Select the remaining light green wire, route to the LH inner headlamp, cut to length, double with the cut off portion using terminal W, and plug into connector T as shown on sheet 7. Select the remaining light green wire, route to the RH inner headlamp, cut to length, double with the cut off portion using terminal W, and plug into connector T as shown on sheet 7. Select the remaining portion of the light green wire, route to the RH outer headlamp, cut to length, install terminal C, and plug into connector A as

shown on sheet 7.

Select the tan Headlight Low Beam wire (12B), route to the LH outer headlamp, cut to length, double with the cut off portion using terminal W, and plug into connector A as shown on sheet 7. Select the remaining tan wire, route to the RH outer headlamp, cut to length, install terminal C, and plug into connector A as shown on sheet 7.

Connect this wire to your fog lamp power lead wires. An in-line splice or double up of the wire at the left fog lamp before routing to the right fog lamp will be necessary. If the fog lamps have a separate ground wire, you must

supply those wires as they are not included in the kit.





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> Rev 10.0 8/27/2019 92969421

Page 2

12B Tan

500B Black

Installation instructions (cont'd)

Circuit Branch 3 - Under Dash connections

Wire # Wire color Printing Procedure

Fog or driving lamp switch connection wires

Orange 12V Battery Fused Connect to "Feed In" on your fog lamp switch (if so equipped). 500A Black Fog Lamps Connect to "Feed out" on your fog lamp switch (if so equipped).

LH Courtesy lamp connection

Plug in your Left Hand under dash courtesy lamp assembly here. The function of each wire is as follows:

12V Ctsy Sw Courtesy Light power

156A White Crtsy ground Courtesy Light ground. Attach ring terminal to a good chassis ground.

Turn Signal Switch connector

If you are using a stock Ford turn signal switch and steering column, refer to Diagram 'A' and "Table "A" on this page, to mate the original wires in your column to the AAW Turn Signal Switch wires. This kit is designed to plug into and function with a GM style turn signal switch. Our dash harness turn signal connector mates to the GM 3 7/8" plug type that was used on most 1969-1974 GM, IDIDIT, and many other aftermarket steering columns. Starting from 1975 on up, the GM switch began using a 4 1/4 inch connector in place of the 3 7/8" one. That connector is from the same family and uses the same terminals. By using the supplied mating connector (L) and terminals (M) located in the loose piece kit bag of the dash harness (510179), it is easy to adapt any steering column to the kit. The function of each of the AAW wires within the cavities are as follows:

Black Horn button ground to the horn relay trigger Horn switch 28A Black Horn Relay Ground Ground wire for use with stock Ford column only (not used with an aftermarket column). 14A,B Light Blue Left Front Turn Feeds the left front turn lamp bulb high filament ,the left hood mounted turn signal bulb, and the left turn dash

Feeds the right front turn lamp bulb high filament, the right hood mounted turn signal bulb, and the right turn dash

Right Front Turn 15A,B Dark Blue indicator lamp.

Brown Turn Sw - Hazard 4 way hazard power feed wire from the Hazard flasher "L" terminal. Purple Turn Switch Feed Turn signal power feed wire from the Turn Signal flasher "L" terminal

Feeds the left rear turn and brake lamp bulb high filament. 18 Yellow Left Rear Turn 19 Dark Green Right Rear Turn Feeds the right rear turn and brake lamp bulb high filament. 17A White Brake Switch Power feed wire from the output side of the brake switch.

Light Blue Third Brake Power feed wire from the output side of the brake switch to the third brake light connection at the rear body 17B

Circuit Branch 4 - Under Dash connections

Wire color Printing **Procedure**

Rear Body Wire connections.

27

This connector plugs into the Rear Body Kit 510052. See that sub-kit for specific installation instructions and circuit functions

Accessory Feed Wire connections.

Tan Accessory Fused Accessory Fused power source.

103 Tan Fuel pump Connect to the power input terminal of a fuel pump relay.

104 Red Power Locks Connect to the power input of the power locks switch or any other battery powered accessory

107 Pink **lanition Fused** Ignition Fused power source.

116 Pink **Power Windows** Connect to the power input of the power windows switch or any other ignition powered accessory.

Instrument Cluster ground.

150A,B Black Ground Connect to a good chassis ground.

Headlight switch connector.

The function of each wire is as follows:

Red 12V Battery 12 volt battery power to the switch. Park Lights Power lead wires to the parking and tail light circuits. 9A,B,C Brown

Dark Green Dash Lights Power lead wire to the dash lights

Headlight power output to the Dimmer Switch. 10 Yellow Dimmer Sw feed

40C,D,E Orange 12V Battery Fused Courtesy Light battery power feed from fusebox.

Courtesy Light switched battery power. 53A.B Lt Blue 12V Ctsy Sw

> **NOTE:** The courtesy lamp extension from page 1, that plugs onto the connector at branch 3 on this page, uses a # 631 bulb (not included with this kit). They may be purchased at any auto parts store.

Table "A"

AAW Turn Signal Switch wires to stock 1969-70 Mustang turn signal switch.

AAW Wire Printing Wire color Light Blue Left Front Turn Green with white stripe Dark Blue White with blue stripe.

AAW

Wire #

14A.B

15A,B

16 17A,B

19 27

28 28A

40G \ 18 \ 30

XX.

Circuit

Branch

(15A,B)

(14A,B)

(150A,B)

Circuit

Branch

(156A)

AAW

Purple

Yellow

Brown

Black

Black

Dark Green

Right Front Turn Turn Switch Feed Brake Switch Left Rear Turn Right Rear Turn Turn Sw - Hazard Horn Relay Ground

Blue

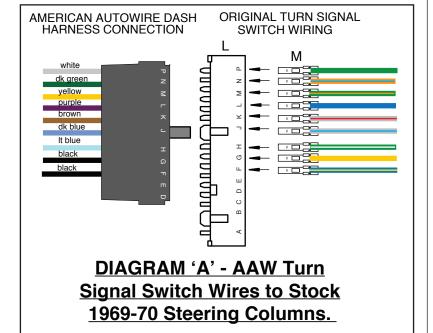
Yellow Horn Relay Ground

Wire Color

Green with orange stripe. Orange with blue stripe. White with red stripe.

Blue with yellow stripe.

Note: Ford originally switched power to the horns through the steerring column horn button. In this kit, ground is being switched through the original steering column switch to ground a horn relay which switches power to the horns.





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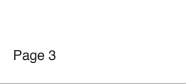
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Circuit Branch 5 - Under Dash connections

Instrument Cluster connections

These connections plug into the Instrument Cluster Kit 510186. See that sub-kit for specific installation instructions and circuit functions. NOTE: In the event that you are using an aftermarket gauge package, there are instructions and terminals to complete that task (92965220) located in the 510186 Instrument cluster kit. If you are using an electronic speedomter, connections to the transmission sending unit can be found on this page to the right in figure "A".

Circuit Branch 5 - Engine and Alt. connections. See page 8, "Figures B and C" for typical connections. Loose piece terminals and connectors to complete these connections are located in kit # 510181.

Wire # Wire color Printing Procedure

Alternator connections

Red 12 V Battery

Brown Alterrnator Ign Use the 6ga red wire, boot and ring terminal from the 510476 kit, route it from the alternator to the Megafuse, cut to length. Connect as shown on page 8 of this instruction set and on the 92972153 (510476) instruction set. This wire is the exciter wire for your alternator / voltage regulator. If you are using a one wire alternator, this wire will not be used and should be capped off as it is "hot" in the ignition "on" position. If you are using an alternator that requires an internal voltage regulator, this exciter wire must be connected to the "switched or 12v ignition" terminal on your alternator according to the manufacturer's specifications for the type of alternator / regulator that is being being used. A inline diode or resistor may be necesssary to eliminate "run on" after being switched off. (AAW recommends a GEN 3 Internally Regulated or 1 wire alternator unit)

Starter Solenoid connections

Starter Solenoid-S

Route the end that comes out with the heavy red main power feed wire to the "S" terminal on your starter solenoid, cut to length, install sleeve R and terminal U which can be found in grommet and loose piece bag 510181. (See

Figure D on page 8)

Main Power connections

12 V Battery 2A Red

Route this wire to the Megafuse, cut to length, use the ring terminal and shrink tubing from the 510476 kit. Connect

as shown on page 8, Figure B.

Neutral safety and back-up connections

12 V Ignition

Neutral Safety Switch Purple Starter Solenoid-S Purple Backup Lt Sw-Lights Lt. Green

Connect to a NSS terminal on the neutral safety switch. (See figure C, page 8)

Connect to the opposite NSS terminal on the neutral safety switch as the 5 wire above. (See figure C, page 8) Connect to the backup light terminal on the neutral safety / back up switch. (See figure C, page 8)

This is your 12 volt switched power source for the distributor. This can be connected directly to the "bat" terminal

Connect to the backup light power terminal on the neutral safety / back up switch. (See figure C, page 8)

Engine connections

39B

39D

121

Pink

Tan

White

Ignition Feed - coil

on a typical HEI distributor, to a ballast resistor as in a points type distributor, or be used as the ignition power source for an aftermarket ignition module such as an MSD or "Duraspark" module. We recommend cosulting your ignition system manufacturer's installation instructions for specific connection requirements (See page 8, figure D for some examples).

Oil Pressure Sender Dark Blue Dark Green Water Temp Sender

Electric Choke

Connect to the temperature sender. On carbureted cars, connect to the electric choke terminal. Coil - Tach

Connect to the oil pressure sender.

This can be connected directly to the tach terminal on a typical HEI distributor, to the negative side of the coil, or a tach connection in an aftermarket ignition module such as an MSD module. See the installation instructions for the

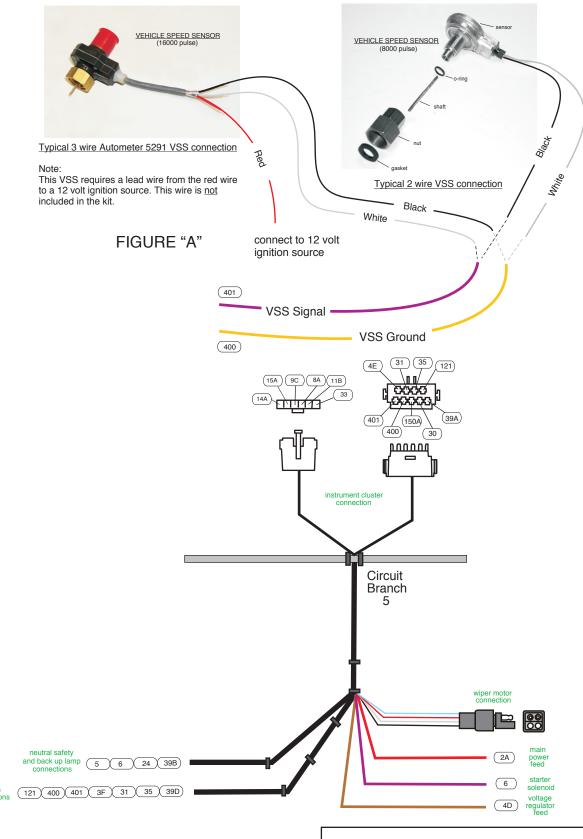
type of ignition system you are using for specific connection requirements.

VSS Ground 400 Yellow 401 Purple VSS Signal

Connect to the Vehicle Speed Sensor ground lead (used only with an aftermarket electronic speedometer). Connect to the Vehicle Speed Sensor signal lead (used only with an aftermarket electronic speedometer).

Wiper motor connection

Route the molded 4 position connector containing the blue, black, red, and white wires back in thru your cowl area as original, and plug the molded connector into your wiper motor molded lead. It is a factory indexed connection and will only install 1 way. No other connections are necessary to complete this task.





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Circuit Branch 6 - Under Dash connections

Wire # Wire color **Printing** Procedure

Wiper Switch connections

Plug the 8 position washer and wiper switch connector directly onto your stock wiper switch. No other connection is necessary.

Radio connections

99

Tan Radio Ignition power lead to radio for "off" and "on" functions.

Yellow Radio Bat Battery power lead to radio for memory.

Cigarette lighter connection

40B Orange 12V battery

Fused connection to cigarette lighter.

Heater A/C power feed connection

Dash illumination lamps connection

This is the fused power lead for the heater or AC control panel. Connect according to the instructions Brown Heater/AC feed

supplied with your aftermarket heater / AC unit. This can also be used as the 12 volt keyed feed wire to the

stock heater or A/C system in your 1969 Mustang.

Spare dash lamp feeds for any accessory dash lamps needed including the radio lamp, ashtray lamp, etc. 8B tru F Gray

Brake Switch connector

40A Orange Brake Switch 12V feed Connect to Brake Switch. This is the 12 volt fused battery feed to the brake lamp switch

17B Connect to Brake Switch. This is the 12 volt output from the brake switch to the turn signal switch. White Brake Switch

Ignition Switch connector

Pink Ignition Feed Connect to the provided 1967 style ignition switch. ЗА Purple Neutral Safety Switch Connect to the provided 1967 style ignition switch. 2B Red 12V Battery Connect to the provided 1967 style ignition switch.

Brn & Brn/Wt Ignition Sw Accy Install on the ignition switch stud after the main switch connector has been plugged in. 4A,E

Circuit Branch 7 - Under Dash connections

Wire color **Printing Procedure** Wire #

These connections will plug into your stock map lamp, glovebox, and clock harness.

40D,F Orange 12V Battery 12V battery fused power connection for the map lamp, glovebox, and clock

Gray Dash Lights Dash lamp feed for clock

150B Ground connection for the map lamp, glovebox, and clock. Black Ground

Circuit Branch 8- Under Dash connections

Printing Wire # Wire color <u>Procedure</u>

Console rear courtesy light connection.

53J Lt Blue 12V Ctsy Sw Courtesy Light power. Connect to your stock console courtesy lamp harness. 156E White Ctsy Ground Courtesy Light ground. Connect to your stock console courtesy lamp harness.

Circuit Branch 9- Under Dash connections

Wire # Wire color **Printing Procedure**

RH Courtesy lamp connection

Plug in your Right Hand under dash courtesy lamp assembly here. The function of each wire is as follows:

53B,E,J Lt Blue 12V Ctsy Sw Courtesy Light power provided in the 510181 parts kit. 156B,E White Crtsy ground Courtesy Light ground provided in the 510181 parts kit. Attach ring terminal to a good chassis ground. 156B White Crtsy ground

Circuit Branch 10- Under Dash connections

Wire # Wire color **Printing Procedure**

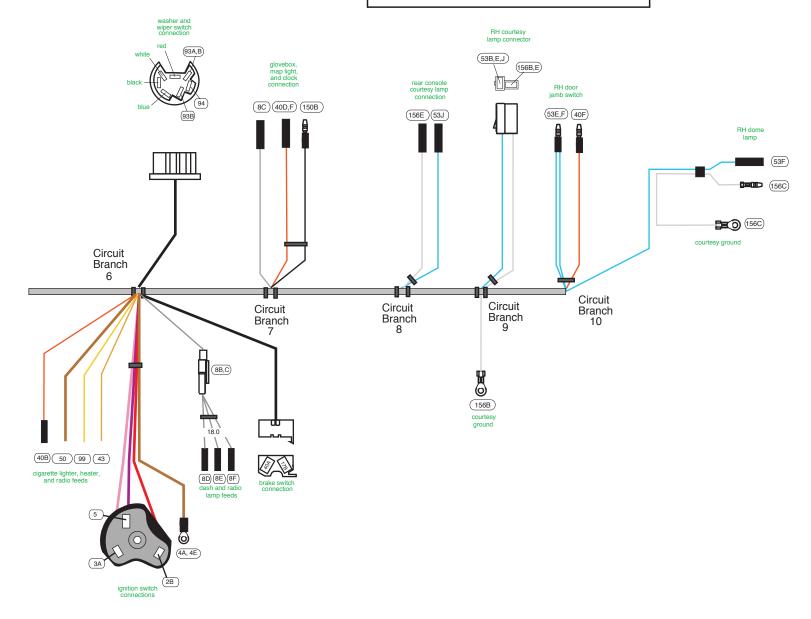
Right Hand Dome Lamp Feed Wires.

Light Blue 12V Ctsy Sw 53E,F Connect to the Right Hand door jamb switch. 40F Orange 12V Battery Fused Connect to the Right Hand door jamb switch. 53F Light Blue 12V Ctsy Sw Connect to the Right rear dome lamp.

Connect the bullet terminal end to the right rear dome lamp. The ring terminal end must be connected to a 156C White Ctsy Ground

good chassis ground.

NOTE: The courtesy lamp extension from page 1, that plugs onto the connector at branch 9 on this page, uses a # 631 bulb (not included with this kit). They may be purchased at any auto parts store.





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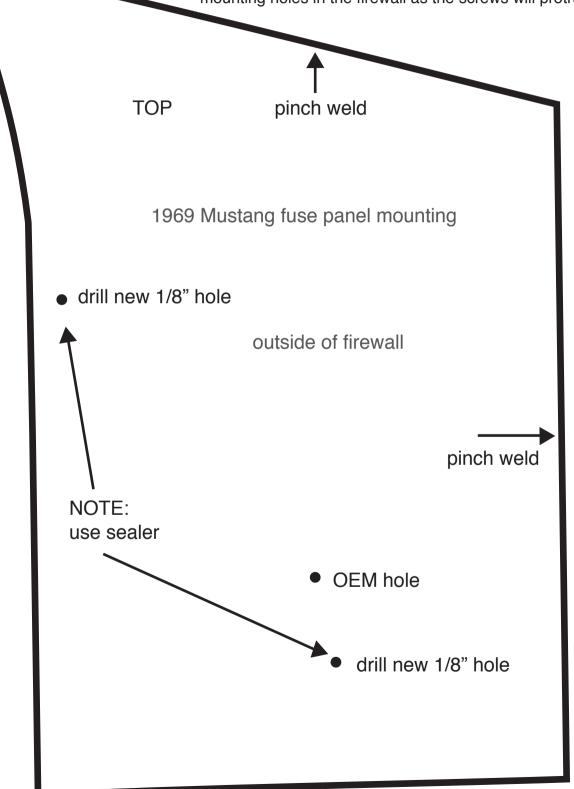
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Fusebox Mounting Hole Template

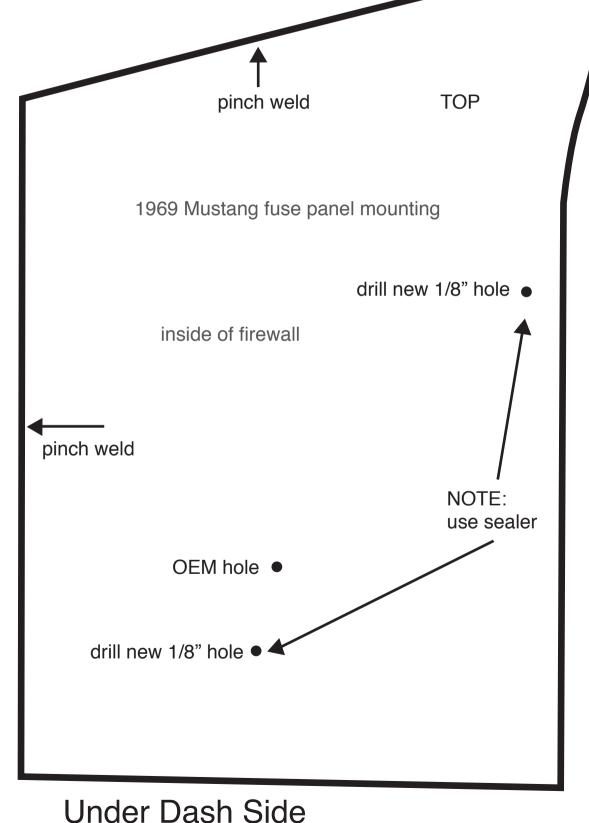
Choose to work either inside or the outside the car and align the template to the upper and outer pinch welds, and then locate the OEM hole in the firewall.

Once the template is located securely in place, use a center punch and set the two points which you will need to drill out. Using a 1/8" drill bit, carefully drill the two new fuse box mounting holes in your firewall.

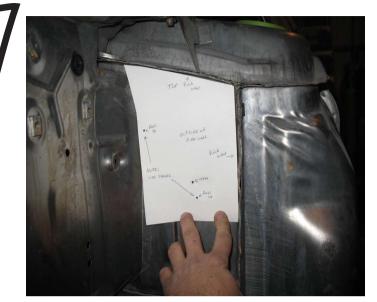
Be sure to use some type of sealer on each of the two mounting screws before running them into the two new mounting holes in the firewall as the screws will protrude into the front wheelhouse area.



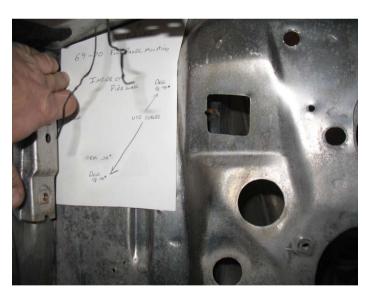
Engine Bay Side







Engine Bay Side



Under Dash Side

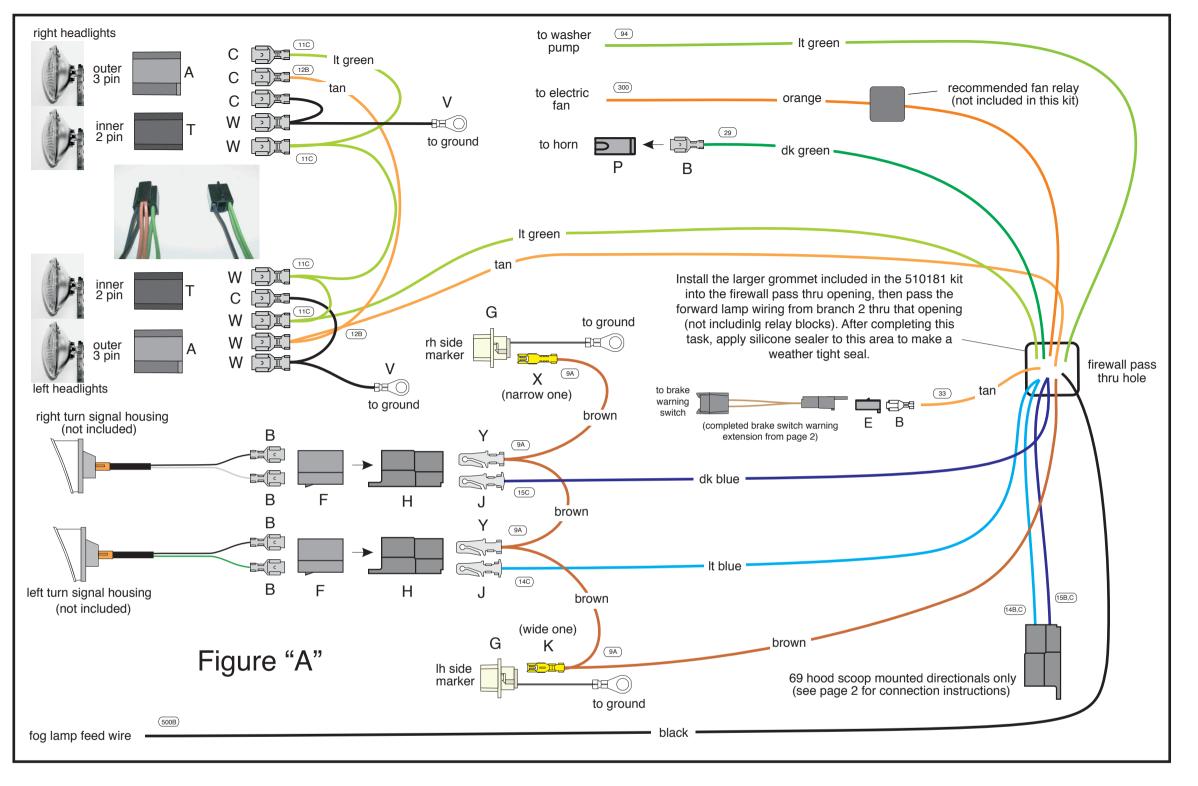
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NOTE: The terminals and connectors listed on this page and denoted with UPPER CASE LETTERS to help you complete the various connections to your lamps, horns, switches, etc. can be found in your loose piece grommet and parts kit, P/N 510181 (with the exception of terminal B and connector E which will be found in the 510179 main dash harness loose piece kit).

The identifications, colors, and functions for all of the wires listed in "Figure A" on this page can be found on page 2, branch 2 of this main instruction set. AAW suggests and recommends using both pages 2 and 7 to complete the installation of the foward lamp and washer pump connections.



FORWARD LAMP HARNESS OPENING

The picture above shows the forward lamp wires exiting the original firewall bulkhead pass-thru hole. Even though it has not been done in this picture, please take note to install the larger of the 2 grommets found in the 510181 kit into this opening PRIOR to bringing the forward lamp wires thru the opening, and out into the engine compartment.



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