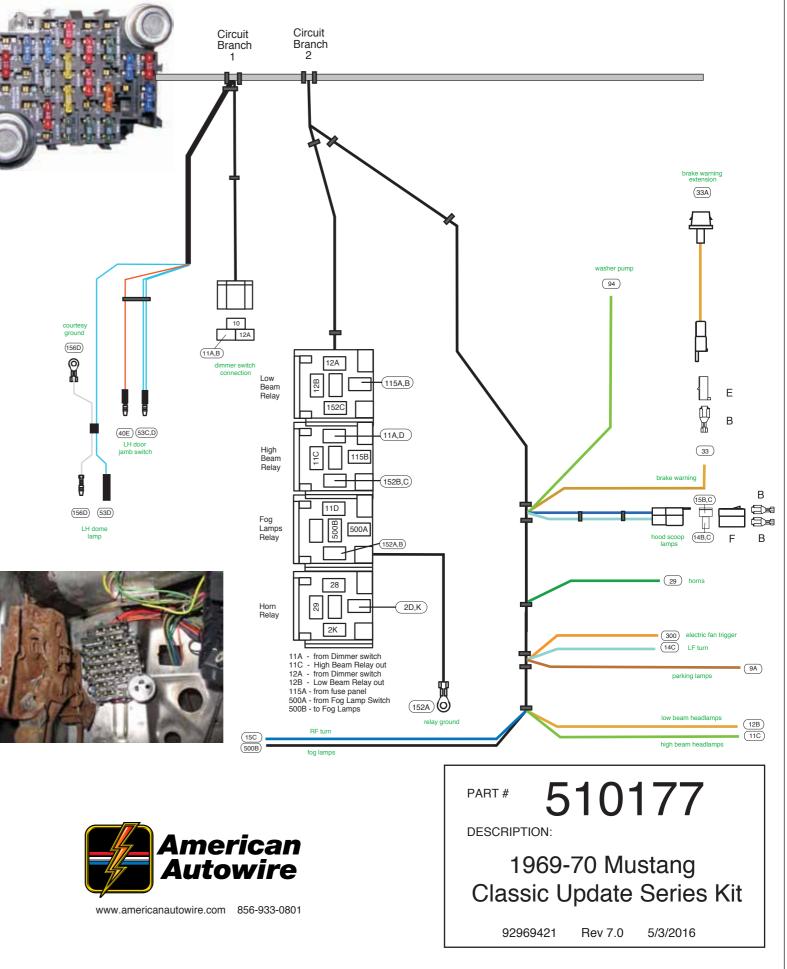


#### Main Fuse Panel Installation Instructions

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

Circuit	Circuit Branch 1- Under Dash connections				
<u>Wire</u>	Wire color	Printing	Procedure		
Dimmer Switch connector.					
10 11A,B 12A	Yellow Light Green Tan	Dimmer Switch Feed Headlight Hi Beam Headlight Low Beam	Connect to Dimmer Switch. Connect to Dimmer Switch. Connect to Dimmer Switch.		
Left Ha	nd Dome Lamp	Feed Wires.			
53C,D 40E 53D 156D	Light Blue Orange Light Blue White	12V Ctsy Sw 12V Battery Fused 12V Ctsy Sw Ctsy Ground	Connect to Left Hand door jamb switch provided in the 510181 parts kit. Connect to Left Hand door jamb switch provided in the 510181 parts kit. Connect to Left rear dome lamp. Connect the bullet terminal end to the left rear dome lamp. The ring terminal end must be connected to a good chassis ground.		
<u>Circuit</u>	Branch 2- Fro	ont Lighting connections	See page 7, "Figure A" for typical connections. Loose piece terminals and connectors are located in kit 510181.		
Wire #	Wire color	Printing	Procedure		
		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 your horn circuit.		
152A 94	Black Light Green	Ground Washer Pump Feed	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.		
33	Tan	Brake Switch	This is the brake warning light switch wire for braking systems using a brake warning light. An extension to the switch, wire "33A" with a late model mold-on connector, has also been provided. Route wire 33 to the brake warning switch, cut to length, install terminal "B", plug into connector "E" (Parts in 510179 kit), plug the completed lead into the brake warning extension wire 33A. The other end of the brake warning extension can then be plugged onto the brake warning switch. This AAW kit switches ground, so only 1 lead is necessary. If you are using your stock brake warning switch, you will need to cut both of the wires from your original 2 position switch connector and splice AAW wire 33 onto both of the wires that were part of the original wire pigtail.		
	Light Blue Dark Blue Dark Green	Left Front Turn Right Front Turn Horn	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.		
14C	Light Blue	Left Front Turn	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.		
15C	Dark Blue	Right Front Turn	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.		
300 9A	Orange Brown	Electric Fan Park Lights	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.		
11C	Light Green	Headlight-Hi Beam	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, 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, 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, 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.		
12B	Tan	Headlight-Low Beam	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.		
500B	Black	Fog Lamps	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.		

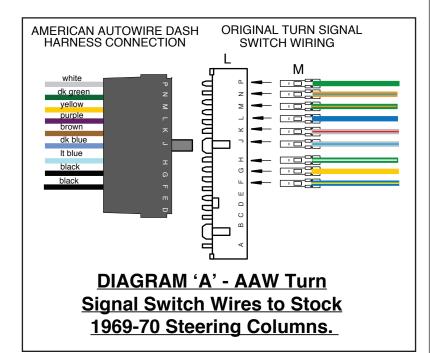




Circuit	Branch 3 - II	nder Dash connections	Installation instructions (cont'd)			
Wire #	Wire color		Procedure			
		witch connection wires				
40 500A	Orange Black	12V Battery Fused Fog Lamps	Connect to "Feed In" on your fog lamp switch (if so equipped). Connect to "Feed out" on your fog lamp switch (if so equipped).			
LH Cou	urtesy lamp co Plug in you		urtesy lamp assembly here. The function of each wire is as follows	S:		
53A,C 156A	Lt Blue White	12V Ctsy Sw Crtsy ground	Courtesy Light power. Courtesy Light ground. Attach ring terminal to a good chassis g	round.		
Turn Si	column to t signal conr from 1975 terminals. I	using a stock Ford turn sign the AAW Turn Signal Switc nector mates to the GM 3 7 on up, the GM switch bega By using the supplied matir	hal switch and steering column, refer to Diagram 'A' and "Table "A" th wires. This kit is designed to plug into and function with a GM st (/8" plug type that was used on most 1969-1974 GM, IDIDIT, and r un using a 4 1/4 inch connector in place of the 3 7/8" one. That con ng connector (L) and terminals (M) located in the loose piece kit ba The function of each of the AAW wires within the cavities are as fo	yle turn signal switch. Our dash harness turn nany other aftermarket steering columns. Starting nector is from the same family and uses the same of the dash harness (510179), it is easy to		
28 28A 14A,B	Black Black Light Blue	Horn switch Horn Relay Ground Left Front Turn	Horn button ground to the horn relay trigger Ground wire for use with stock Ford column only (not used with Feeds the left front turn lamp bulb high filament ,the left hood m		accessory connection	
15A,B	Dark Blue	Right Front Turn	indicator lamp. Feeds the right front turn lamp bulb high filament, the right hood indicator lamp.	l mounted turn signal bulb, and the right turn dash		rear body
27 16 18 19 17A 17B	White	Turn Sw - Hazard Turn Switch Feed Left Rear Turn n Right Rear Turn Brake Switch Third Brake	4 way hazard power feed wire from the Hazard flasher "L" termi Turn signal power feed wire from the Turn Signal flasher "L" term Feeds the left rear turn and brake lamp bulb high filament. Feeds the right rear turn and brake lamp bulb high filament. Power feed wire from the output side of the brake switch. Power feed wire from the output side of the brake switch to the	minal.		
Oliverville	Durach ( )	- In Deck - and the second	connector.			
Wire #	Wire color	nder Dash connections	Procedure		instrument cluster and map lamp ground	
	ody Wire con	-	<u>- locedure</u>		(150A,B)	
	-		bdy Kit 510052. See that sub-kit for specific installation instructions	and circuit functions.		
Access		e connections.				J
100 103 104 107 116	Tan Tan Red Pink Pink	Accessory Fused Fuel pump Power Locks Ignition Fused Power Windows	Accessory Fused power source. Connect to the power input terminal of a fuel pump relay. Connect to the power input of the power locks switch or any oth Ignition Fused power source. Connect to the power input of the power windows switch or any		Circuit Branch 3	Circuit Branch 4
	nent Cluster gi		Connect to the power input of the power windows switch of any			
	Black	Ground	Connect to a good chassis ground.			
	ght switch con				(S00A) fog lamp (40) switch turn signal	
2F 9A,B,C 44 10 40C,D, 53A,B		12V Battery Park Lights Dash Lights Dimmer Sw feed 12V Battery 12V Ctsy Sw	12 volt battery power to the switch. Power lead wires to the parking and tail light circuits. Power lead wire to the dash lights . Headlight power output to the Dimmer Switch. Fused Courtesy Light battery power feed from fusebox. Courtesy Light switched battery power.		156A courtesy ground Courtesy ground Courtesy Cour	
Pag	e 3			<b>NOTE:</b> 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.	LH courtesy lamp connector 156A 53A,C	9AB,C 2F 44 44 40C,D,E 63A,B headlight switch connection

Table "A"						
	AAW Turn Signal Switch wires to stock 1969-70 Mustang turn signal switch.					
AAW <u>Wire #</u>	AAW <u>Wire color</u>	AAW <u>Wire Printing</u>	Ford <u>Wire Color</u>			
14A,B 15A,B 16 17A,B 18 19 27 28 28A	Light Blue Dark Blue Purple White Yellow Dark Green Brown Black Black	Left Front Turn Right Front Turn Turn Switch Feed Brake Switch Left Rear Turn Right Rear Turn Turn Sw - Hazard Horn Relay Ground Horn Relay Ground	Green with white stripe White with blue stripe. Blue Green Green with orange stripe. Orange with blue stripe. White with red stripe. Yellow Blue with yellow stripe. Note: Ford originally switched power to the horns through the steerring column			

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.





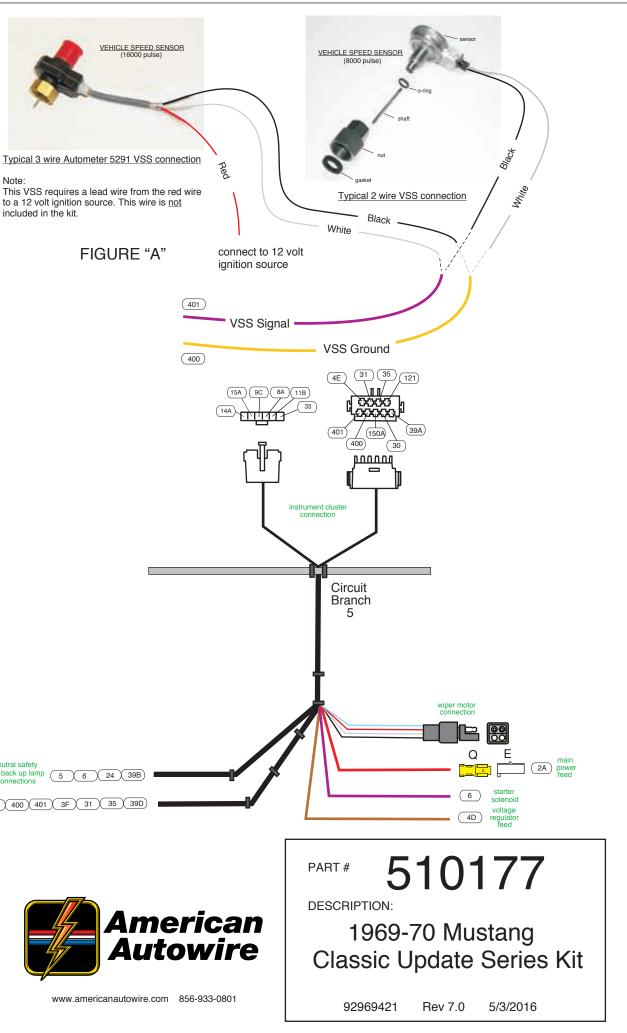
### **Circuit Branch 5 - Under Dash connections**

#### Instrument Cluster connections.

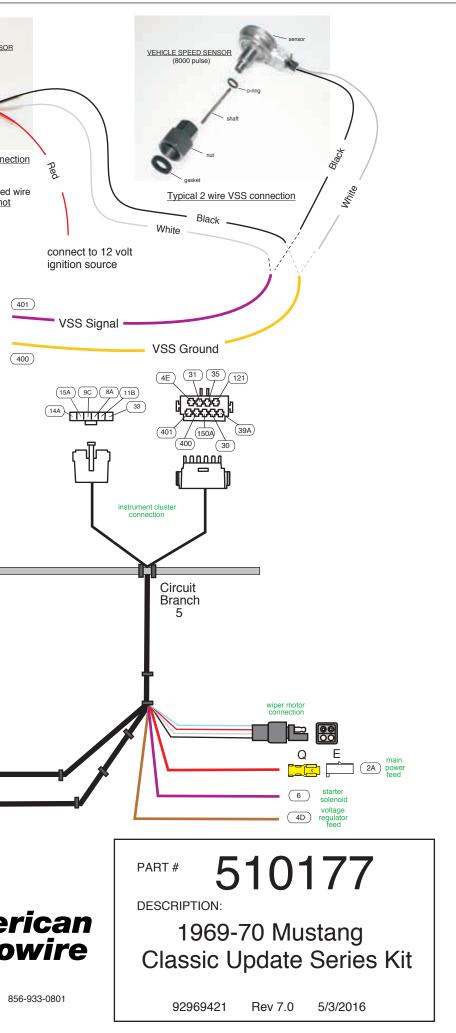
These connections plug into the Instrument Cluster Kit 510186. See that sub-kit for specific installation instructions and circuit functions. NOTE: In the event that you are using an aftermarket gauge package, there are instructions and terminals to complete that task (92965220) located in the 510186 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".

<u>Circui</u>	Circuit Branch 5 - Engine and Alt. connections		See page 8, "Figures B, C, and D" for typical connections. Loose piece terminals and connectors to complete these connections are located in kit # 510181.
Wire #	Wire color	Printing	Procedure
	Alternator cor	nnections	
2 2H	Red Light Blue	12 V Battery Fusible Link	Route this wire to your starter solenoid and connect the ring terminal end with the blue fusible link to the battery terminal on the starter solenoid. Route the other end to the alternator battery stud, install sleeve "R" followed by terminal "D" and attach this completed assembly to the battery terminal of the alternator. (See Figure B) See the connection instructions under wire 2.
4D	Brown	Alterrnator Ign	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 necessary to eliminate "run on" after being switched off. (AAW recommends a GEN 3 Internally Regulated or 1 wire alternator unit)
	Starter Solend	oid connections	
6	Purple	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)
2A	Red	12 V Battery	Route this wire to your starter solenoid. Cut to length, install terminal "Q", plug into connector "E" as shown on this page (and also as shown on figure D, page 8). Then, as shown on page 8, Figure B, plug connector "E" into the connector on the loose piece brown fusible link wire 2J, then attach the ring terminal on this assembly to the battery terminal on your starter solenoid. (Parts for this connection can be found in the 510179 loose piece kit)
2J	Brown	Fusible Link	See the connection instructions under wire 2A.
	Neutral safety	and back-up connections	
5 6 24 39B	Purple Purple Lt. Green Pink	Neutral Safety Switch Starter Solenoid-S Backup Lt Sw-Lights 12 V Ignition	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) Connect to the backup light power terminal on the neutral safety / back up switch. (See figure C, page 8)
	Engine conne	ections	
3F	Pink	Ignition Feed - coil	This is your 12 volt switched power source for the distributor. This can be connected directly to the "bat" terminal 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).
31 35	Dark Blue Dark Green	Oil Pressure Sender Water Temp Sender	Connect to the oil pressure sender.
39D 121	Tan White	Electric Choke Coil - Tach	On carbureted cars, connect to the electric choke terminal. 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.
400 401	Yellow Purple	VSS Ground 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 of	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.

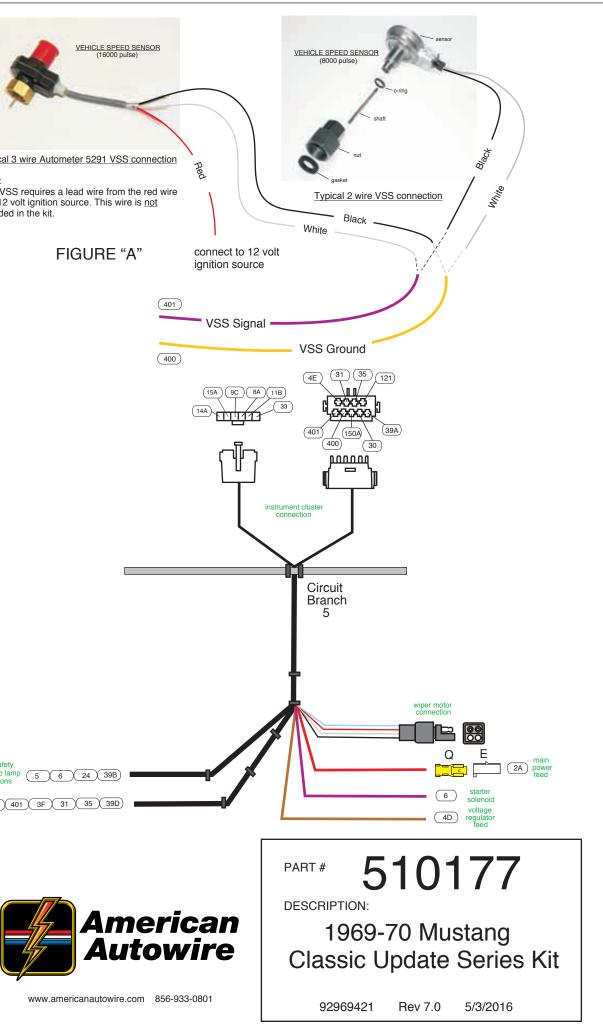


Note: This VSS requires a lead wire from the red wire to a 12 volt ignition source. This wire is not included in the kit.



neutral safety and back up lamp connections 5 6 24 39B

(121) 400) 401 3F 31 35 39D engine connections



#### Installation instructions (cont'd)

Circuit Branch 6 - Under Dash connections				
Wire #	Wire color	Printing	Procedure	
Wiper Sv	witch connectior Plug the 8 pos		witch connector directly onto your stock wiper switch. No other connection is necessary.	
Radio co	onnections			
43	Tan	Radio	Ignition power lead to radio for "off" and "on" functions.	
99 vv	Yellow	Radio Bat	Battery power lead to radio for memory.	
Cigarette	e lighter connect	tion		
40B	Orange	12V battery	Fused connection to cigarette lighter.	
Heater A	/C power feed c	connection		
50	Brown	Heater/AC feed	This is the fused power lead for the heater or AC control panel. Connect according to the instructions 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.	
Dash illu	mination lamps	connection	eteoteneder of the eyeten in your root indetang.	
8B tru F	Gray	Dash Lights	Spare dash lamp feeds for any accessory dash lamps needed including the radio lamp, ashtray lamp, etc.	
Brake S	witch connector			
40A 17B	Orange White	Brake Switch 12V feed Brake Switch	Connect to Brake Switch. This is the 12 volt fused battery feed to the brake lamp switch. Connect to Brake Switch. This is the 12 volt output from the brake switch to the turn signal switch.	
launitinum (				
3A	Switch connecto Pink	Ignition Feed	Connect to the provided 1967 style ignition switch.	
5	Purple	Neutral Safety Switch	Connect to the provided 1967 style ignition switch.	
2B	Red	12V Battery	Connect to the provided 1967 style ignition switch.	
4A,E	Brn & Brn/Wt	Ignition Sw Accy	Install on the ignition switch stud after the main switch connector has been plugged in.	
<u>Circuit E</u>	Branch 7 - Unde	er Dash connections		
		Delection	Provide the second se	

Wire #	Wire color	Printing_	Procedure
	These conne	ctions will plug into yc	our stock map lamp, glovebox, and clock harness.
40D,F	Orange	12V Battery	12V battery fused power connection for the map lamp, glovebox, and clock.
8C	Gray	Dash Lights	Dash lamp feed for clock
150B	Black	Ground	Ground connection for the map lamp, glovebox, and clock.

#### **Circuit Branch 8- Under Dash connections**

Wire #	Wire color	Printing	Procedure
	Console rear of	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**

<u>Wire #</u> <u>Wire color</u> Printing\_

#### RH Courtesy lamp connection

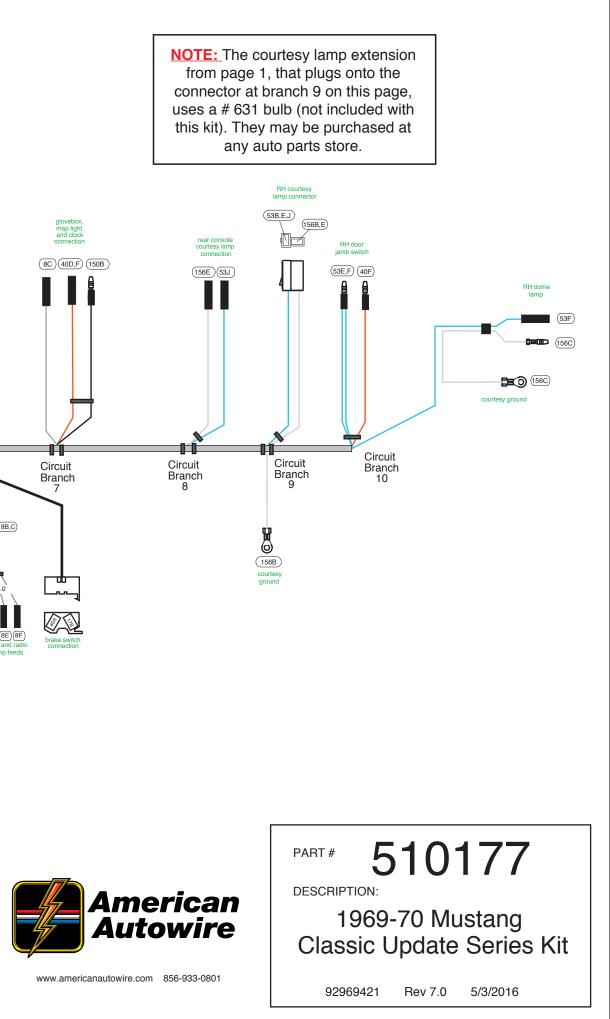
Plug in your Right Hand under dash courtesy lamp assembly here. The function of each wire is as follows:

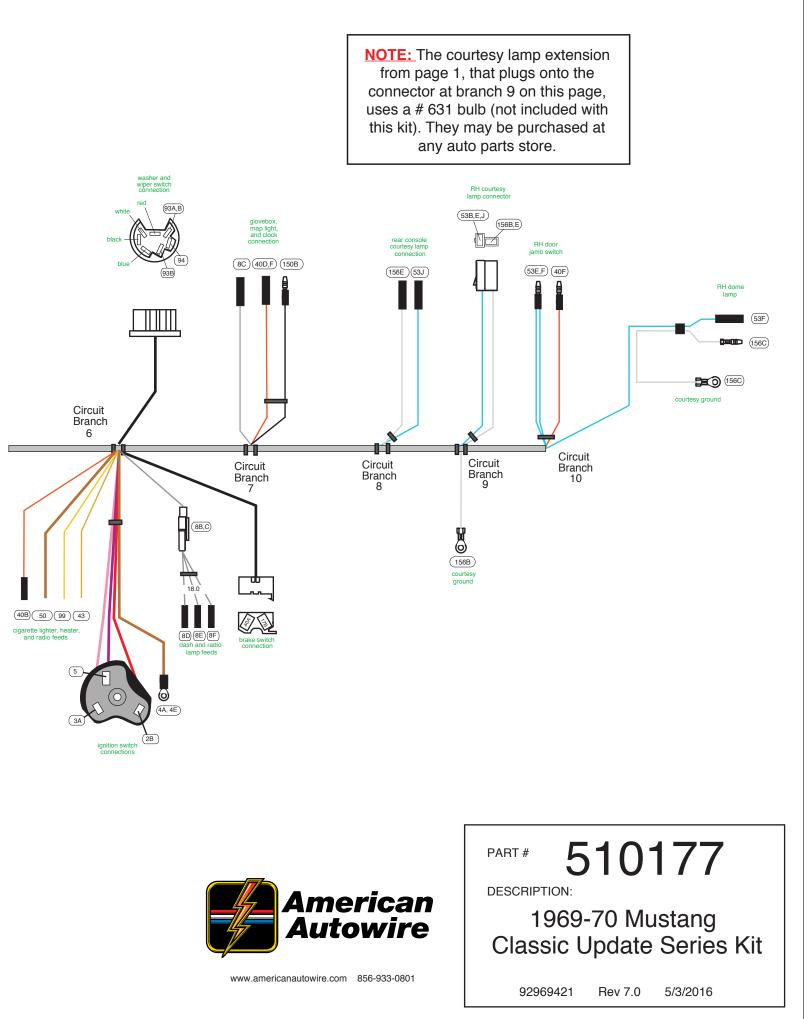
53B,E,J	Lt Blue	12V Ctsy Sw	Courtesy Light power provided in the 510181 parts kit.
156B,E	White	Crtsy ground	Courtesy Light ground provided in the 510181 parts kit.
156B	White	Crtsy ground	Attach ring terminal to a good chassis ground.

Procedure

#### **Circuit Branch 10- Under Dash connections**

Wire #	Wire color	Printing	Procedure		
Right Ha	Right Hand Dome Lamp Feed Wires.				
53E,F 40F 53F 156C	Light Blue Orange Light Blue White Ctsy	12V Ctsy Sw 12V Battery Fused 12V Ctsy Sw Ground	Connect to the Right Hand door jamb switch. Connect to the Right Hand door jamb switch. 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 good chassis ground.		

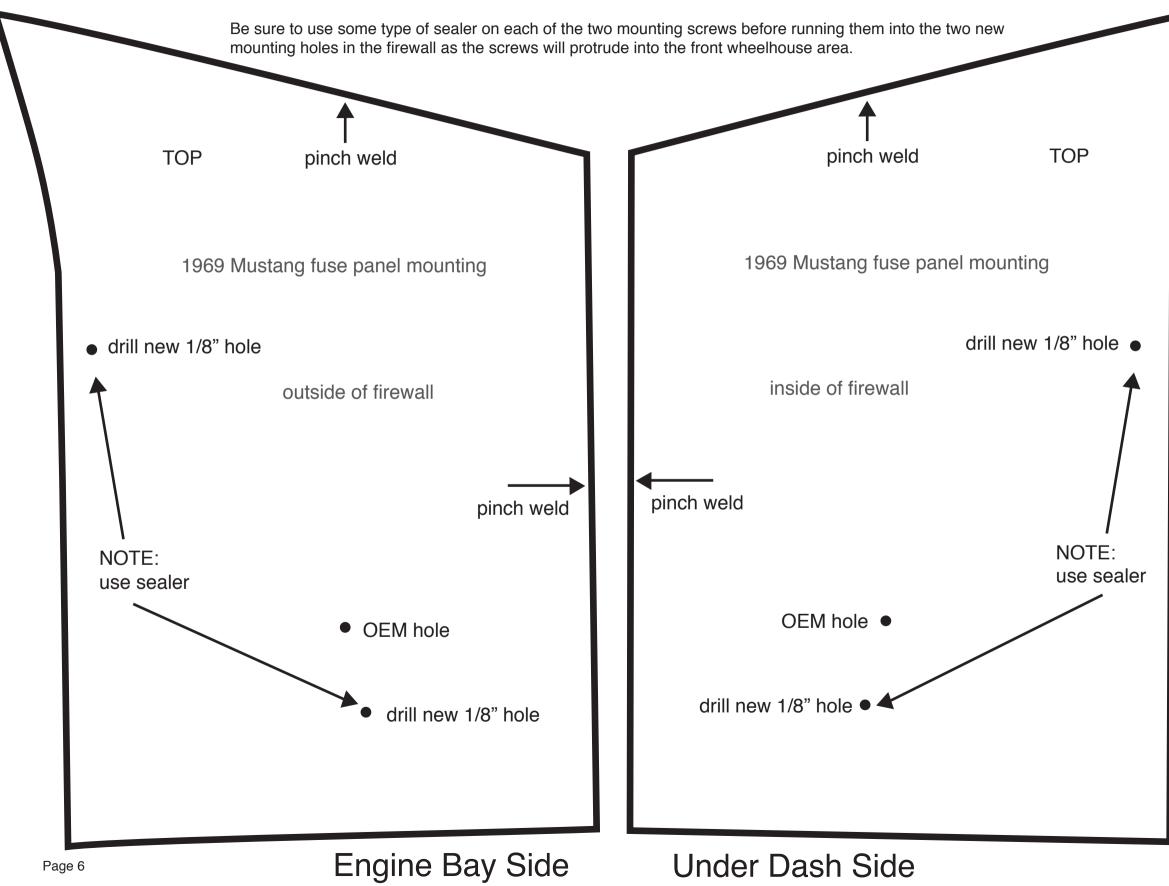




## **Fusebox Mounting Hole Template**

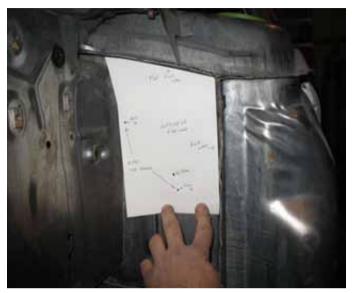
Choose to work either inside or the outside the car and align the template to the upper and outer pinch welds, and then locate the OEM hole in the firewall.

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.





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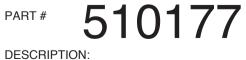


# **Engine Bay Side**



# **Under Dash Side**

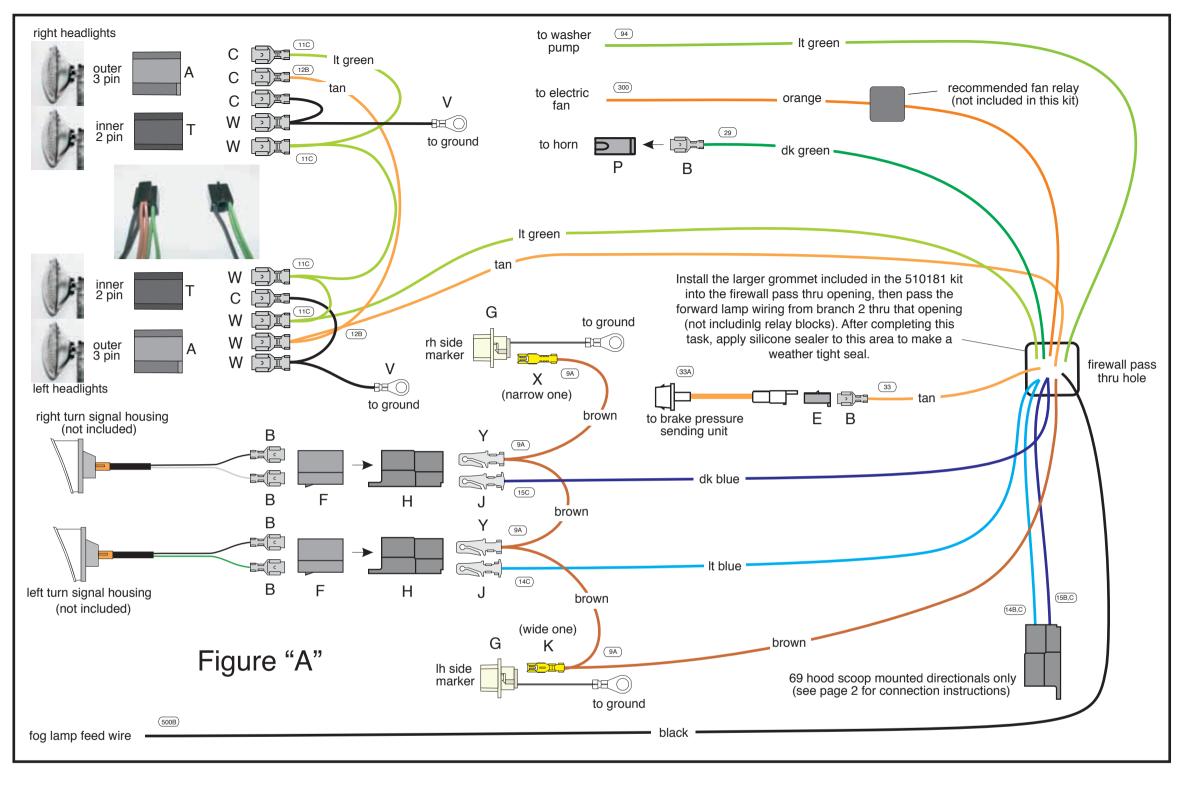
PART #



1969-70 Mustang **Classic Update Series Kit** 

92969421

Rev 7.0 5/3/2016



### FORWARD LAMP, ELECTRIC FAN, HORN, BRAKE WARNING, AND WASHER PUMP CONNECTIONS

<u>NOTE</u>: 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.

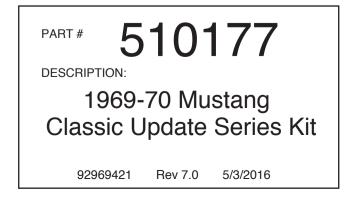


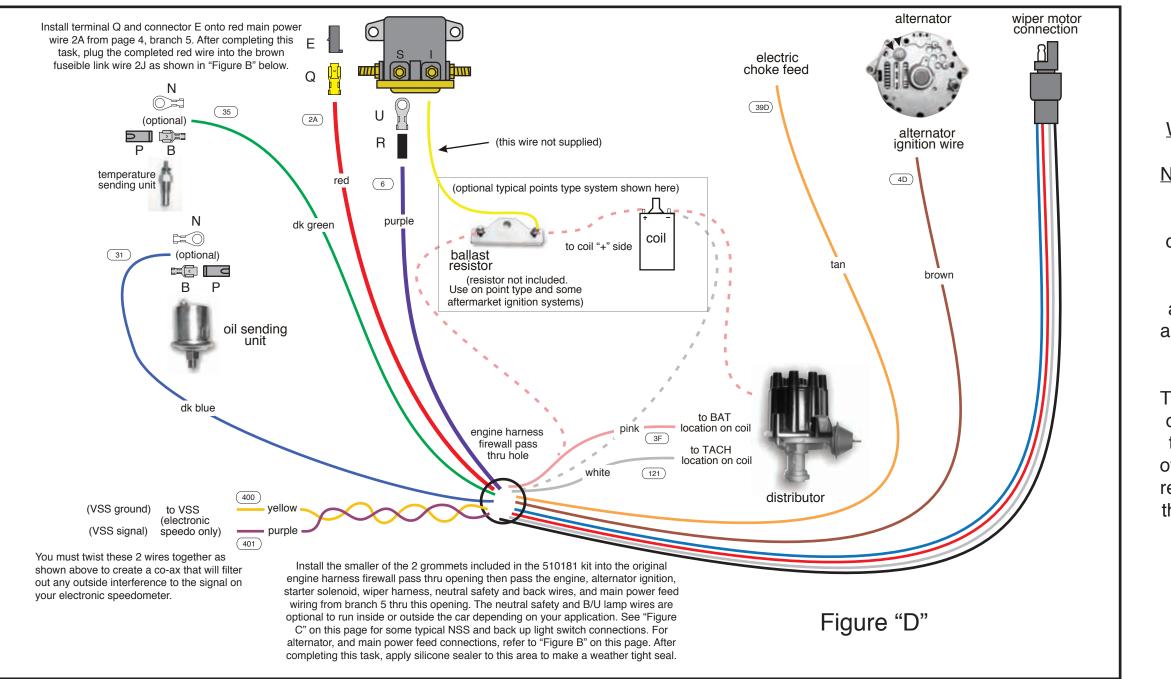
## FORWARD LAMP HARNESS OPENING

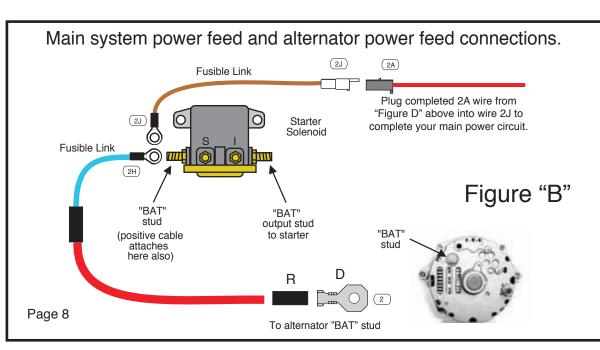
The picture above shows the forward lamp wires exiting the original firewall bulkhead pass-thru hole. Even though it has not been done in this picture, please take note to install the larger of the 2 grommets found in the 510181 kit into this opening <u>PRIOR</u> to bringing the forward lamp wires thru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

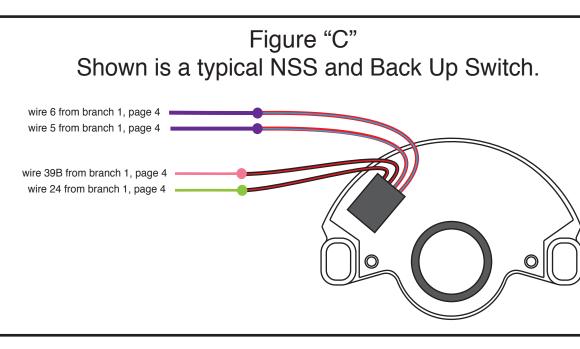


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## ENGINE, ALTERNATOR, MAIN POWER, WIPER MOTOR, AND NSS CONNECTIONS

NOTE: The terminals and connectors listed on this page and denoted with UPPER CASE LETTERS to help you complete the various connections to your ignition coil / control unit, temp and oil senders, electric choke, starter solenoid, alternator / regulator, main power, alternator power, wiper motor, neutral safety, and back up switch can be found in your loose piece grommet and parts kit, P/N 510181.

The identifications, colors, and functions for all of the wires listed in "Figures B, C, and D" on this page can be found on page 4, branch 5, of this main instruction set. AAW suggests and recommends using pages 4 and 8 to complete the installation of the engine, main power, and alternator connections.

