Classic Update Series

1964 - 1966 Ford Mustang

START HERE !

PLEASE READ THIS BEFORE STARTING INSTALLATION !

This wiring kit is designed for ease of installation. Please read the guidelines below, BEFORE STARTING your installation to guarantee a successful job. Use an appropriate crimping tool which folds the wings of the open barrell terminals down into the wire as shown below. ALL TERMINALS THAT YOU INSTALL SHOULD BE PROPERLY SOLDERED. Our factory crimped terminations are installed by GM approved five ton presses, and soldering these terminations is not necessary.

AS THIS HARNESS IS DESIGNED FOR USE IN A MODIFIED CAR REQUIRING A HIGHER RATE OF CHARGE, IT DOES NOT SUPPORT THE USE OF A STOCK (ORIGINAL) ALTERATOR. IT IS DESIGNED FOR USE WITH AN INTERNALLY REGULATED OR SINGLE WIRE STYLE ALTERNATOR. ADAPTERS (WHICH ARE NOT INCLUDED WITH THIS KIT) ARE AVAILABLE FROM SEVERAL SOURCES WILL BE NECESSARY TO USE ANY ALTERNATOR OTHER THAN A 1 WIRE UNIT.

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 installaing your kit. Start with bag letter G, then M, etc. The order of installation is shown below.

G - 510047 Main Harness Kit
M - 510129 Rear Body Kit
N - 510130 Wiper Switch Power Jumper

STEP 3: RECONNECT YOUR BATTERY:
When you have completed the installation and are ready to reconnect the battery, make sure that the following electrical system grounds are in place:

A. Battery is grounded to the ENGINE BLOCK.
B. Battery is grounded to the frame.
C. Engine block is grounded to the frame.
D. Body is grounded to the frame.

STEP 4: CHECK ALL ELECTRICAL FUNCTIONS:
Any non-functioning items should be checked for proper installation. Any problems with your wiring and electrical circuit functions should be addressed to American Autowire Systems, Inc. as soon as possible to avoid any warranty problems.

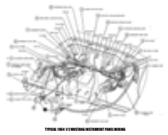
If you have any questions concerning this or any of our products, please feel free to call us at 1-856-933-0801.

AMERICAN AUTOWIRE MAKES IT EASY !!

We carry many accessories for your 1964 - 1966 Mustang

p/n R0067108
OEM style non-stick harness tape

p/n 510585
OEM small terminal crimping tool (18-14 gauge)



p/n 510586
OEM large terminal crimping tool (12-8 gauge)

p/n 510127
ignition switch lock cylinder and keys

p/n 510175
factory hazard switch wiring kit

American Autowire

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PART # 510125

DESCRIPTION:
1964-66 Mustang
Classic Update Series Kit

92969228 Rev 11.0 5/6/2015

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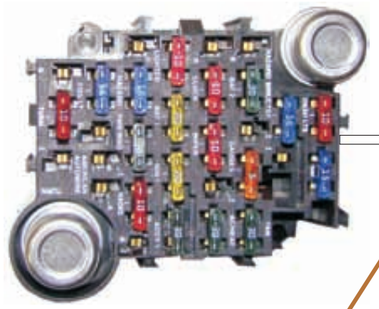
See page 12 for fuse placement



instrument cluster wires

8 9C 11B 14A 15A 30
31 33 35 39A 121 150
400 401 4E

cluster disconnects

gauge cluster disconnect connectors and terminals install here!

Ignition sw

2B 3A 4A,E 5

Radio

43 99

Fog Lamp Switch

40 500A

turn signal switch

8B 17A,B 19 18 16 27 15A,C 14A,C 28 28A X X 28A

Cigarette Lighter

40B

Instrument Cluster Ground

150

LH Dome Light Connector

53D 156D

LH Door Jamb Switch

53C,D 40E

Courtesy Lamp Connector

53E,J 156B

RH Door Jamb Switch

53E,F 40J

Glove Box Lamp

40H

RH Dome LIght Connector

53F 156C

Circuit Branch 1

Circuit Branch 2

Circuit Branch 3

Circuit Branch 4

Circuit Branch 5

Circuit Branch 6

Circuit Branch 7

Circuit Branch 8

Circuit Branch 9

50

5 6 24 39B

3F 31 35 39D 121 400 401

4D

6 2A

LOW 12A 12B 152C 115A,B

HIGH 11A,D 11C 115B 152B,C

FOG 11D 500B 500A 152A,B

HORN 28 29 2K 2D,K

11A - from Dimmer switch
11C - high out
12A - from Dimmer switch
12B - low out
115A - from fuse panel
500A - from FOG Switch
500B - to FOG Lamps

152A

11C 12B 15B 500B

Brake Switch

30A 17B

Dimmer switch

10 12A 11A,B

wiper switch

93

Note: install loose piece connector and wiper feed harness from 510130 onto wire and terminal 93

33 15B,C 14B,C

This branch not used on 1964-66 cars.

29

300 14B

9A

Rear Body

24 17A 30 18 40G 9B 19

plug into connector #3

Accessory

107 100 116 103 104

Headlight Switch

9A,B,C 2F 44 10 40C,D,E 53A,B

53A,C 156A

Courtesy Lamp Connector

156A

Courtesy Lamp Extensions

53G 156E 53G 156E

53H 156F 53H 156F

Fusible Link

2J

Brake Warning Extension

33A

Fusible Link

2 2H

NOTE: Your new underdash courtesy lamp extensions use # 631 bulbs (not included with this kit). They may be purchased at any auto parts store.

PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

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Main Fuse Panel Installation Instructions

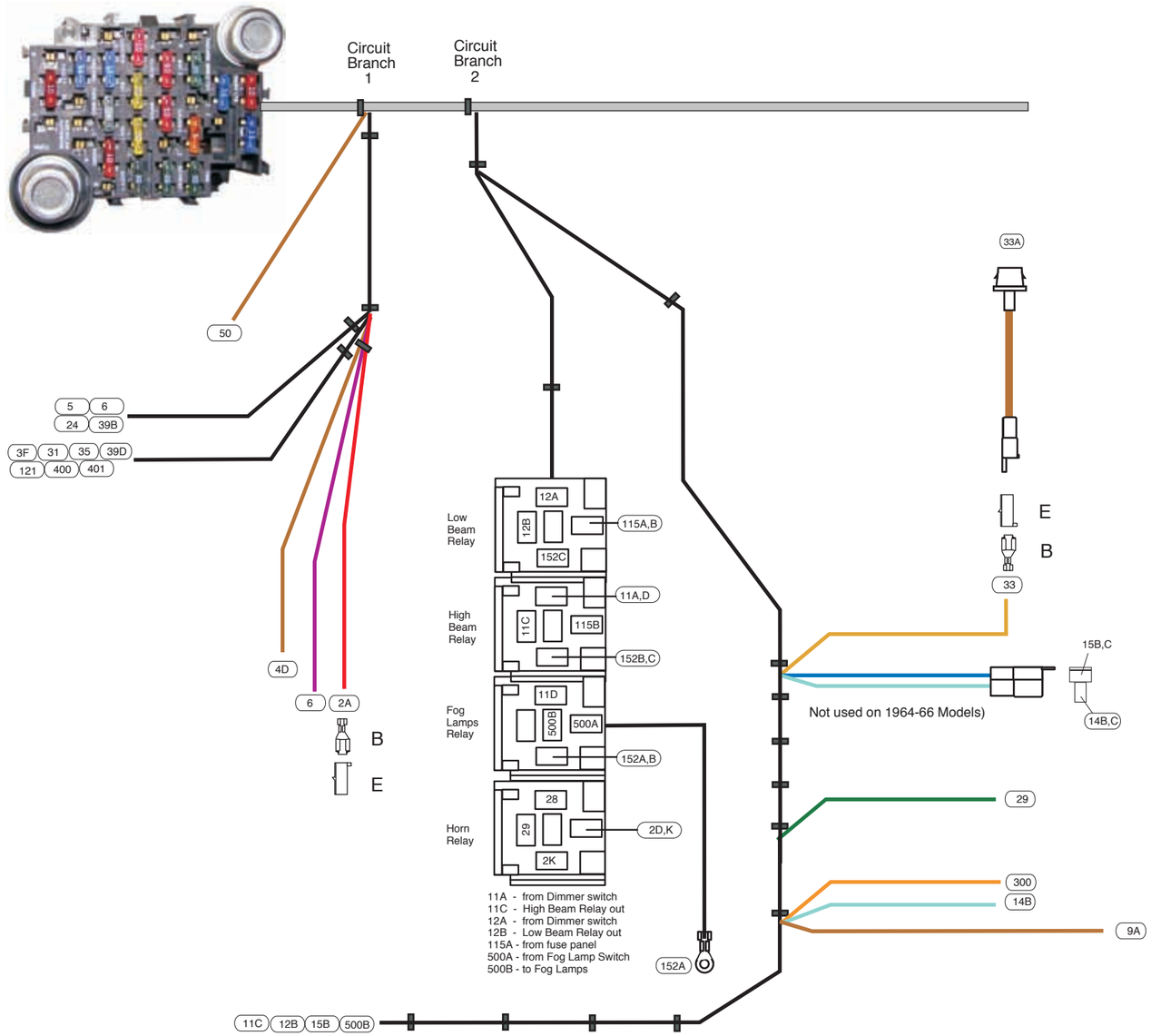
The Main Fuse Panel harness is designed to be mounted under the dash at the firewall in an area close to the steering column. The enclosed representation of the main dash harness shows each circuit branch and identifies each connection by its color and function. Follow this drawing and detail drawings on pages 10 and 11 for the individual circuit connections.

Circuit Branch 1 - Engine and Alt. connections See pages 12 and 13 , “Figures B, C, and D” for typical connections. Loose piece terminals and connectors are located in kit # 510133.

Wire #	Wire color	Printing	Procedure
50	Brown	Heater/AC feed	This is the fused Ignition 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 feed wire to the stock heater switch or blower motor depending on whether the car has a 2 or 3 speed motor. See page 13, figures E and F.
6	Purple	Starter Solenoid-S	Connect the end that comes out with the 5, 24, and 39B wires to 1 terminal on the neutral safety switch. Connect the end that comes out with the heavy red power wire to the "S" terminal on your starter solenoid. (See Figure B)
2	Red	12 V Battery	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 "C" followed by terminal "D" and attach this completed assembly to the battery terminal of the alternator. (See Figure B)
2H	Light Blue	Fusible Link	See the connection instructions under wire 2.
2A	Red	12 V Battery	Route this wire to your starter solenoid. Cut to length, install terminal "B", plug into connector "E" as shown on this page. As shown on sheet 12, Figure B, plug connector "E" into the connector on the loose piece fusible link wire 2J, then attach the ring terminal on this assembly to the battery terminal on your starter solenoid. (Parts in 510047 kit)
2J	Brown	Fusible Link	See the connection instructions under wire 2A.
5	Purple	Neutral Safety Switch	Connect to the opposite terminal from wire 6 above to a terminal on the neutral safety switch. (See figure C)
24	Lt. Green	Backup Lt Sw-Lights	Connect to the backup light terminal on the neutral safety / back up switch. (See figure C)
39B	Pink	12 V Ignition	Connect to the backup light power terminal on the neutral safety / back up switch. (See figure C)
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 or external voltage regulator, this exciter wire must be connected to the “switched or 12v ignition” terminal on your regulator or alternator according to the manufacturer's specifications for the type of alternator / regulator that is being being used. (AAW recommends a GEN 3 Internally Regulated or 1 wire unit)
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. See the installation instructions for the type of distributor you are using for specific connection requirements (See page 13 for some examples).
31	Dark Blue	Oil Pressure Sender	Connect to the oil pressure sender.
35	Dark Green	Water Temp Sender	Connect to the temperature sender.
39D	Tan	Electric Choke	On carbureted cars, connect to the electric choke terminal.
121	White	Coil - Tach	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	Yellow	VSS Ground	Connect to the Vehicle Speed Sensor ground lead (see page 4 for typical connection).
401	Purple	VSS Signal	Connect to the Vehicle Speed Sensor signal lead (see page 4 for typical connection).

Circuit Branch 2- Front Lighting connections See page 12, “Figure A” for typical connections. Loose piece terminals and connectors are located in kit 510133.

Wire #	Wire color	Printing	Procedure
		Relay Pack	The 4 gang relay panel is directly wired and requires no internal wiring. The relays control the headlight low beams, headlight high beams, fog lamps, and the horn.
152A	Black	Ground	This is the relay pack ground. Connect to a good chassis ground.
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 "E", plug into connector "B" (Parts in 510047 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.
14B,C	Light Blue	Left Front Turn	These are the connections for the hood mounted directional lights. (Not used on 1964-66 models)
15B,C	Dark Blue	Right Front Turn	
29	Dark Green	Horn	Connect to the horn power terminal. NOTE: If your horn has a separate ground terminal, you must supply the wire for this ground terminal as it is not included in the kit.
14B	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.
15B	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	Orange	Electric Fan	This is the 12 volt ignition feed to be connected to the trigger wire on your electric fan relay.
9A	Brown	Park Lights	Connect to both the front park / running 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
11C	Light Green	Headlight-Hi Beam	Select the light green Headlight Hi Beam wire (11C) and tan Headlight Low Beam wire (12B). Route and connect these wires to the headlights. An in-line splice of these wires or a double up of these wires at the left front headlight will be necessary to accommodate wiring of both of the headlights. Using the supplied terminals and connectors, connect these wires along with the headlight ground wires to the headlight connectors according to the orientation in the diagram on page 12, Figure A.
12B	Tan	Headlight-Low Beam	
500B	Black	Fog Lamps	Connect this wire to your fog lamp power 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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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

92969228 Rev 11.0 5/6/2015

Circuit Branch 3 - Under Dash connections

Wire #	Wire color	Printing	Procedure
40	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).
43	Tan	Radio	Ignition power lead to radio.
99	Yellow	Radio Bat	Battery power lead to radio.
28A	Black	Horn Relay Ground	Used for original Ford steering column only. See Table "A', page 8 - Stock turn signal connection instruction table.
40B	Orange	12V battery Fused	Connect to cigarette lighter.
8B	Gray	Dash Lights	Spare dash lamp feed for any accessory dash lamps needed.

Brake Switch connector

40A	Orange	12V Battery Fused	Connect to Brake Switch.
17B	White	Brake Switch	Connect to Brake Switch.

Ignition Switch connector

3A	Pink	Ignition Feed	Connect to the provided 1967 style ignition switch.
5	Purple	Neutral Safety Switch	
2B	Red	12V Battery	
4A,E	Brown	Ignition Sw Accy	Install on the ignition switch stud after the main switch connector has been plugged in.

Turn Signal Switch connector

If you are using a stock Ford turn signal switch, refer to Page 14, Diagram 'A' and Table"A", AAW Turn Signal Switch wires to stock 1964-66 Mustang turn signal switch. Note: If you also have a factory 4 way hazard switch mounted in your glovebox, you may purchase optional AAW kit # 510175 to complete your turn signal and hazard connections. This kit is designed to function with a GM style turn signal switch. Our connector mates to a 3 7/8 inch long plug used on 1969-1974 GM, IDIDIT, and many other aftermarket steering columns. Starting from 1975 on up, the GM switch changed the mating connector to use a 4 1/4 inch connector. 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 this dash harness (510047), it is easy to adapt any steering column to the kit. The function of each wire within the cavities is as follows:

Wire #	Wire color	Printing	Procedure
28	Black	Horn Relay Ground	Horn button ground to the horn relay trigger
14A,C	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 indicator lamp.
15A,C	Dark Blue	Right Front Turn	Feeds the right front turn lamp bulb high filament, the right hood mounted turn signal bulb, and the right turn dash indicator lamp.
27	Brown	Turn Sw - Hazard	4 way hazard power feed wire from the Hazard flasher "L" terminal.
16	Purple	Turn Switch Feed	Turn signal power feed wire from the Turn Signal flasher "L" terminal.
18	Yellow	Left Rear Turn	Feeds the left rear turn and brake lamp bulb high filament.
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.

Circuit Branch 4- Under Dash connections

Wire #	Wire color	Printing	Procedure

Dimmer Switch connector.

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

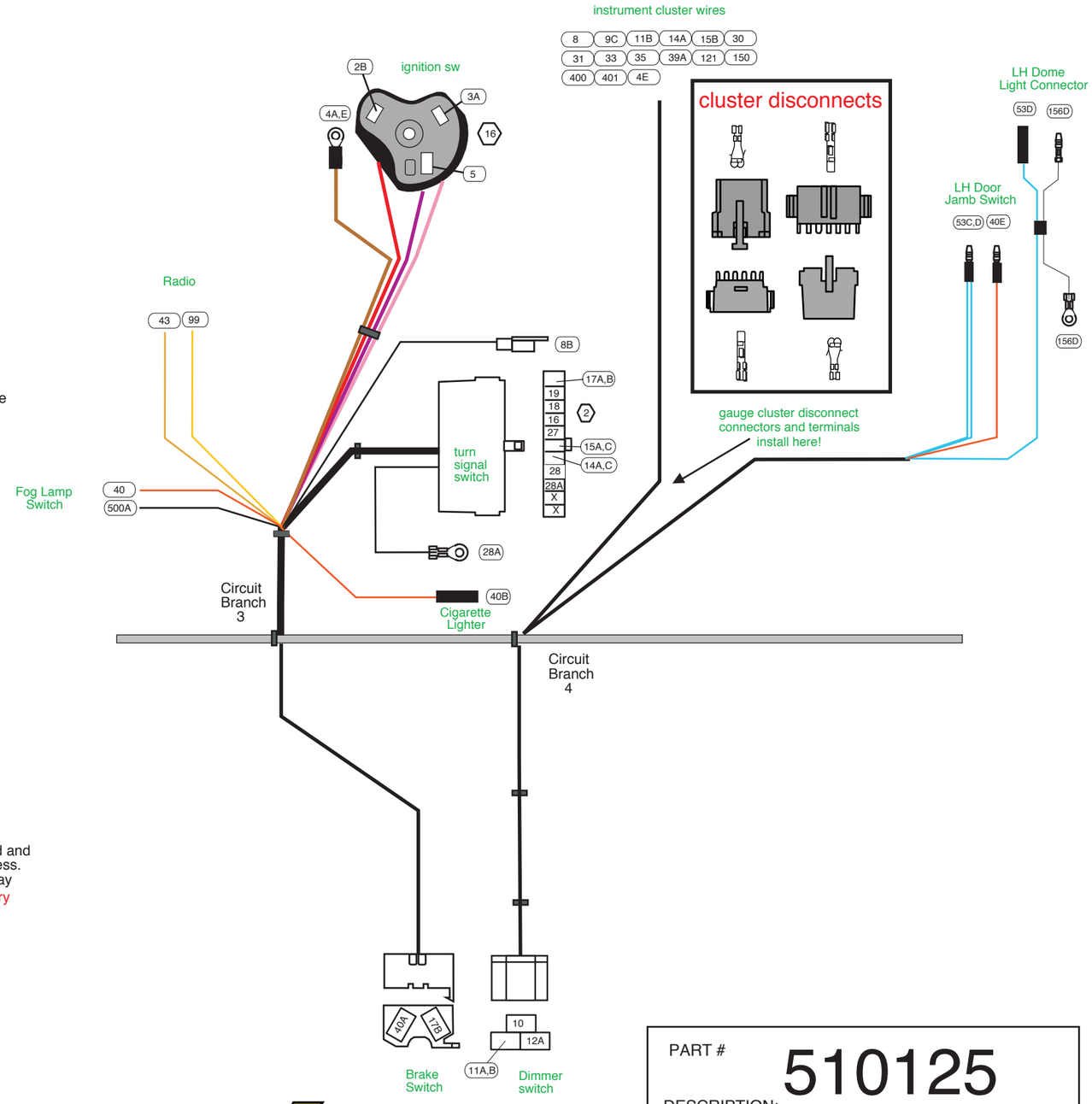
Left Hand Dome Lamp Feed Wires.

53C,D	Light Blue	12V Ctsy Sw	Connect to Left Hand door jamb switch.
40E	Orange	12V Battery Fused	Connect to Left Hand door jamb switch.
53D	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.

Instrument Cluster wires.

See Pages 9, 10, or 11 - Table 'B' for stock 1964-66 Mustang instrument cluster wiring colors and functions. Cluster disconnects have been provided and can be found in the 510047 loose piece bag. We have provided an ample length of wire in order for you to cut an make your own gauge cluster harness. Page 5 identifies a typical instrument cluster wiring scheme. As this kit is designed to function with many different gauge maufacturer's products, it may be necessary to follow the connection requirements specified by the manufacturer of the gauges being used. As with all AAW kits, the use of a factory ammeter is neither supported, nor is it encouraged. The function of each AAW wire is as follows:

8	Gray	Dash Lights	Connect to Gauge Lights.
9C	Brown	Park Lights	Connect to any instrument cluster requiring a signal to dim a digital display. If using regular analog gauges, this wire will not be required.
11B	Light Green	Headlight Low Beam	Connect to the high beam indicator light.
14A	Light Blue	Left Dash Ind	Connect to the left turn signal indicator light.
15B	Dark Blue	Right Dash Ind	Connect to the right turn signal indicator light.
30	Tan	Gas Gauge	Connect to the signal or sender terminal of the fuel gauge.
31	Dark Blue	Oil Pressure Sender	Connect to the signal or sender terminal of the oil pressure gauge.
33	Tan	Brake Light	Connect to the ground side of the brake warning indicator light.
35	Dark Green	Water Temp Sender	Connect to the signal or sender terminal of the water temperature gauge.
39A	Pink	12V Ignition	Connect to the Ignition or power terminals of each gauge. An in line splice will be necessary to feed each gauge in the instrument cluster.
121	White	Coil-Tach	Connect to the signal or sender terminal of the tachometer.
150	Black	Ground	Connect to the Ground terminals of each gauge and dash lamp. An in line splice will be necessary to feed each ground requirement in the instrument cluster.
400	Yellow	VSS Ground	connect to a good chassis ground or the VSS ground terminal on the speedometer. Mechanical speedometers do not require this connection.
401	Purple	VSS Signal	Connect to the VSS signal or sender terminal of the speedometer. Mechanical speedometers do not require this connection.
4E	Brown		This wire will only be used when installing a stock instrument cluster. Connect to the Black with light green stripe wire when using a stock 1967 or 1968 Mustang instrument cluster. This is the accessory feed for the voltage reducer for certain stock gauges.



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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

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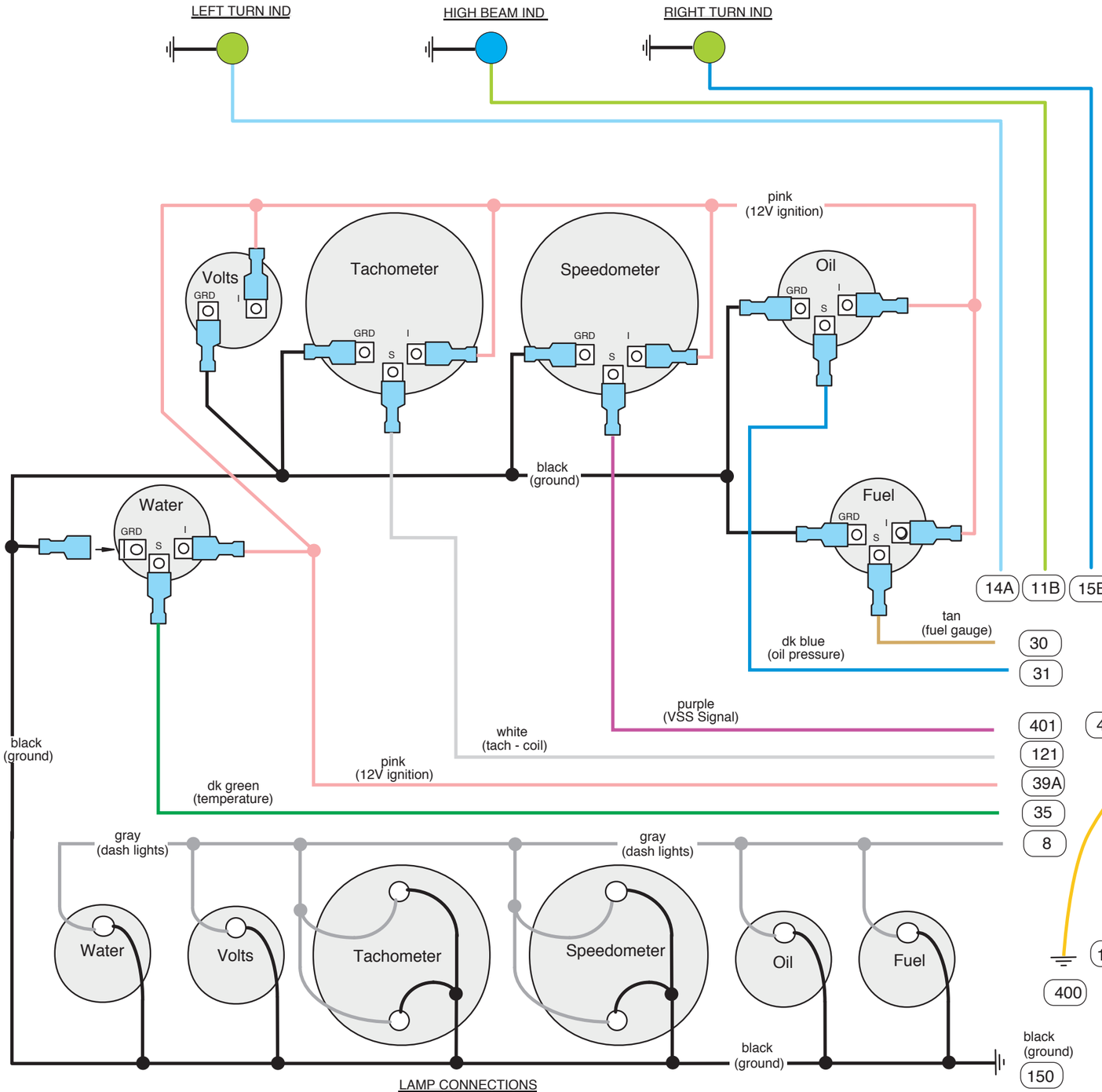
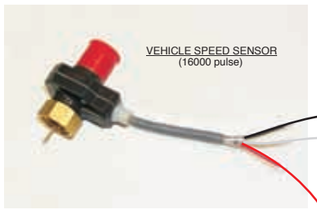
TYPICAL BLADE TYPE GAUGE CONNECTIONS

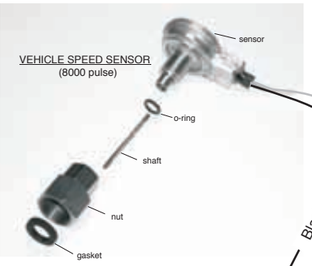


LAMP CONNECTIONS



Typical 3 wire Autometer 5291 VSS connection

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.



Typical 2 wire VSS connection

Instrument Cluster Lead Wires

Circuit Branch 4 - Instrument Cluster Wiring

Shown is a typical installation with electric gauges and an electronic speedometer and tachometer. Mechanical speedometers will only require the light leads. The VSS lead wires can be ignored for mechanical speedometers. Always check the manufacturers instructions for specific requirements.

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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

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Circuit Branch 5 - Under Dash connections

Wire #	Wire color	Printing	Procedure
Wiper Switch connections.			
93	White	Wiper Feed	Power input to wiper and washer switch connection. (This wire will attach to harness number 510130 using a supplied loose piece connector and will complete the feed to your stock wiper washer harness. There were several different configurations used on the 1964-1966 Mustang models including single and dual speed, and with ot without washer. The connection from kit 510130 allows for any combination of these connections.)
150	Black	Ground	Instrument Cluster ground. Connect to a good chassis ground.

Circuit Branch 6- Under Dash connections

Wire #	Wire color	Printing	Procedure
Rear Body Wire connections. This plugs into the Rear Body Kit 510129. See that sub-kit for specific installation instructions and circuit functions.			
Accessory Feed Wire connections.			
100	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	Ignition 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.
Headlight switch connector. The function of each wire is as follows:			
2F	Red	12V Battery	12 volt battery power to the switch.
9A,B,C	Brown	Park Lights	Power lead wires to the running light circuits.
44	Dark Green		Power lead wire to the dash lights .
10	Yellow	Dimmer Sw feed	Headlight power output to the Dimmer Switch.
40C,D,E	Orange	12V Battery Fused	Courtesy Light battery power
53A,B	Lt Blue	12V Ctsy Sw	Courtesy Light switched battery power
Courtesy light connector. Plug in your Left Hand under dash courtesy lamp assembly from page 1 here. The function of each wire is as follows:			
53A,C	Lt Blue	12V Ctsy Sw	Courtesy Light power.
156A	White	Crtsy ground	Courtesy Light ground

Circuit Branch 7- Under Dash connections

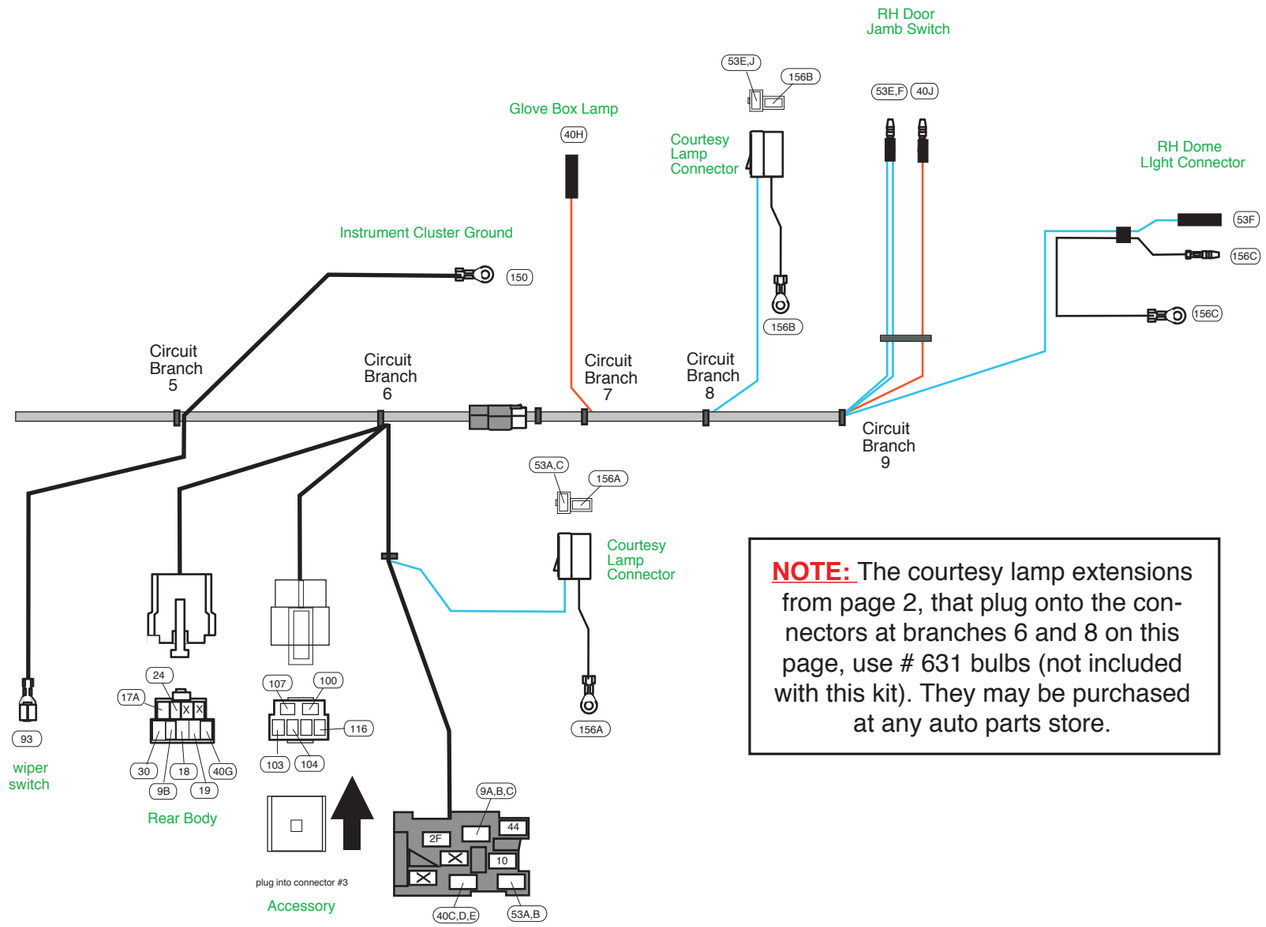
Wire #	Wire color	Printing	Procedure
40H	Orange	12V Battery Fused	Connect to the glove box lamp assembly.

Circuit Branch 8- Under Dash connections

Wire #	Wire color	Printing	Procedure
Courtesy light connector. Plug in your Right Hand under dash courtesy lamp assembly from page 1 here. The function of each wire is as follows:			
53E,J	Lt Blue	12V Ctsy Sw	Courtesy Light power.
156B	White	Crtsy ground	Courtesy Light ground

Circuit Branch 9- Under Dash connections

Wire #	Wire color	Printing	Procedure
Right Hand Dome Lamp Feed Wires.			
53E,F	Light Blue	12V Ctsy Sw	Connect to the Right Hand door jamb switch.
40J	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.
156C	White	Ctsy Ground	Connect the bullet terminal end to the right rear dome lamp. The ring terminal end must be connected to a good chassis ground.



NOTE: The courtesy lamp extensions from page 2, that plug onto the connectors at branches 6 and 8 on this page, use # 631 bulbs (not included with this kit). They may be purchased at any auto parts store.

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PART # 510125

DESCRIPTION: 1964-66 Mustang Classic Update Series Kit

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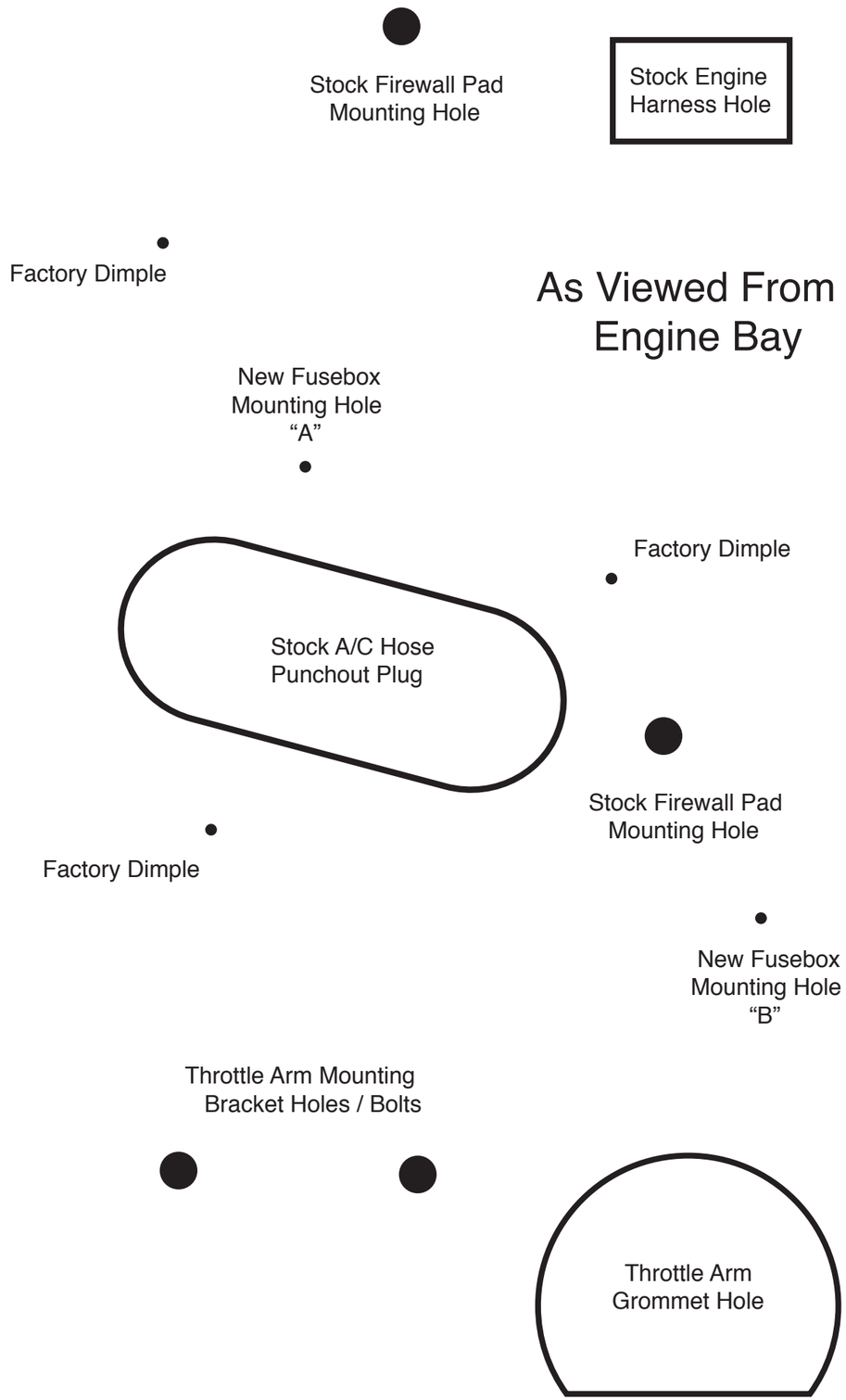

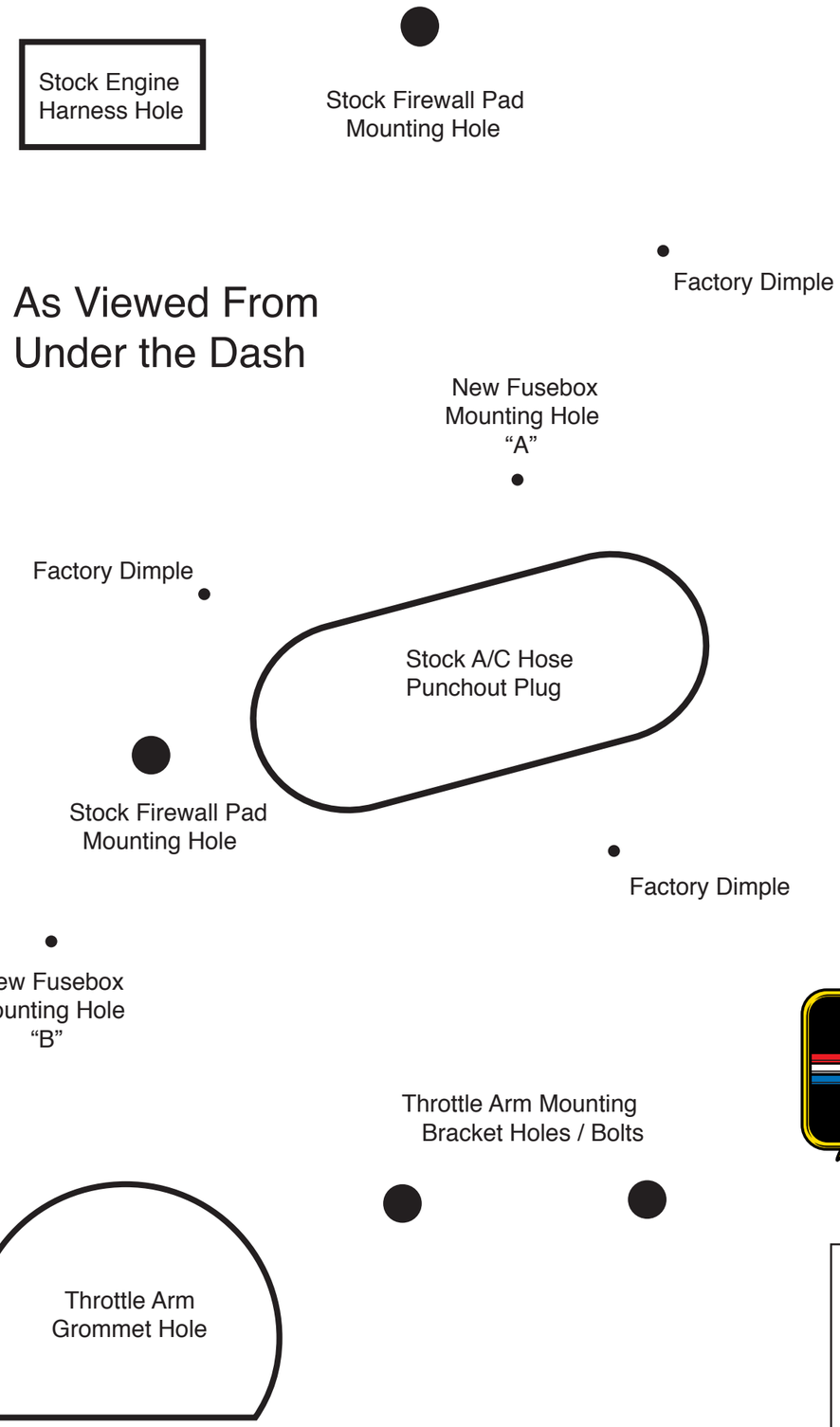

New Mounting Hole Template For Fusebox

Two new 1/8” holes “A” and “B” will need to be drilled in the firewall to mount your new fusebox assembly.

You may choose to position the AAW template from either the engine bay side or the under dash side of the firewall, whichever is easier for you.

Locate this template to the firewall using the existing A/C hose punchout plug, firewall pad mountiung holes, throttle arm grommet hole, and throttle arm bracket mounting holes to set the proper location in which to drill new holes “A” and “B”. Once the holes have been drilled, use the supplied screws to attach the new AAW fusebox assembly to the firewall as shown on sheet 7.

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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

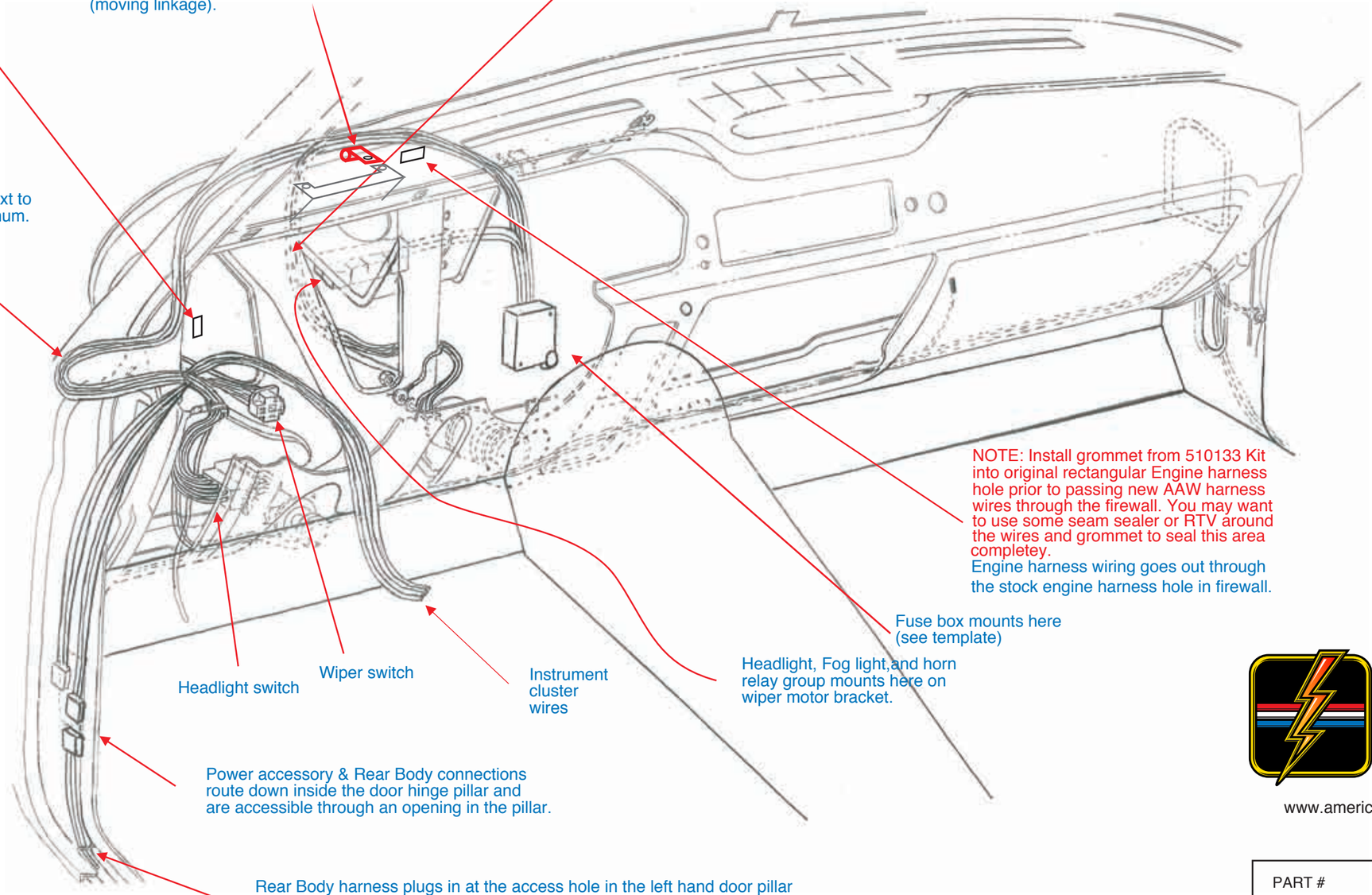
92969228 Rev 11.0 5/6/2015

NOTE: Install grommet from 510133 Kit into original rectangular Forward Lamp harness hole prior to passing new AAW harness wires through the firewall. You may want to use some seam sealer or RTV around the wires and grommet to seal this area completey.
The front light wiring goes out through the stock hole in the firewall ahead of the headlight switch.

NOTE: Using kit 510133, install the enclosed clamp using the supplied hardware onto the ear of the wiper motor mounting bracket as shown on this page.
Heat and AC feed, instrument cluster, headlight switch, accessory connections, rear body, wiper switch, dimmer switch, glove box, and courtesy light wires all route thru the clamp and over the top of the steering column saddle to keep everything away from the wiper transmissions (moving linkage).

Ignition switch, turn signal switch, radio, fog light switch, and cigar lighter wires, etc., all drop down on the right side of the steering column saddle.

Harness routes down the firewall next to saddle and around the fresh air plenum.



NOTE: Install grommet from 510133 Kit into original rectangular Engine harness hole prior to passing new AAW harness wires through the firewall. You may want to use some seam sealer or RTV around the wires and grommet to seal this area completey.
Engine harness wiring goes out through the stock engine harness hole in firewall.

Fuse box mounts here (see template)

Headlight, Fog light,and horn relay group mounts here on wiper motor bracket.

Headlight switch

Wiper switch

Instrument cluster wires

Power accessory & Rear Body connections route down inside the door hinge pillar and are accessible through an opening in the pillar.

Rear Body harness plugs in at the access hole in the left hand door pillar and routes down through the channel, along the rocker sill, into the left quarter panel, and up over the wheel housing and into the trunk.

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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

92969228 Rev 11.0 5/6/2015

1964 1/2 Mustang Instrument Cluster

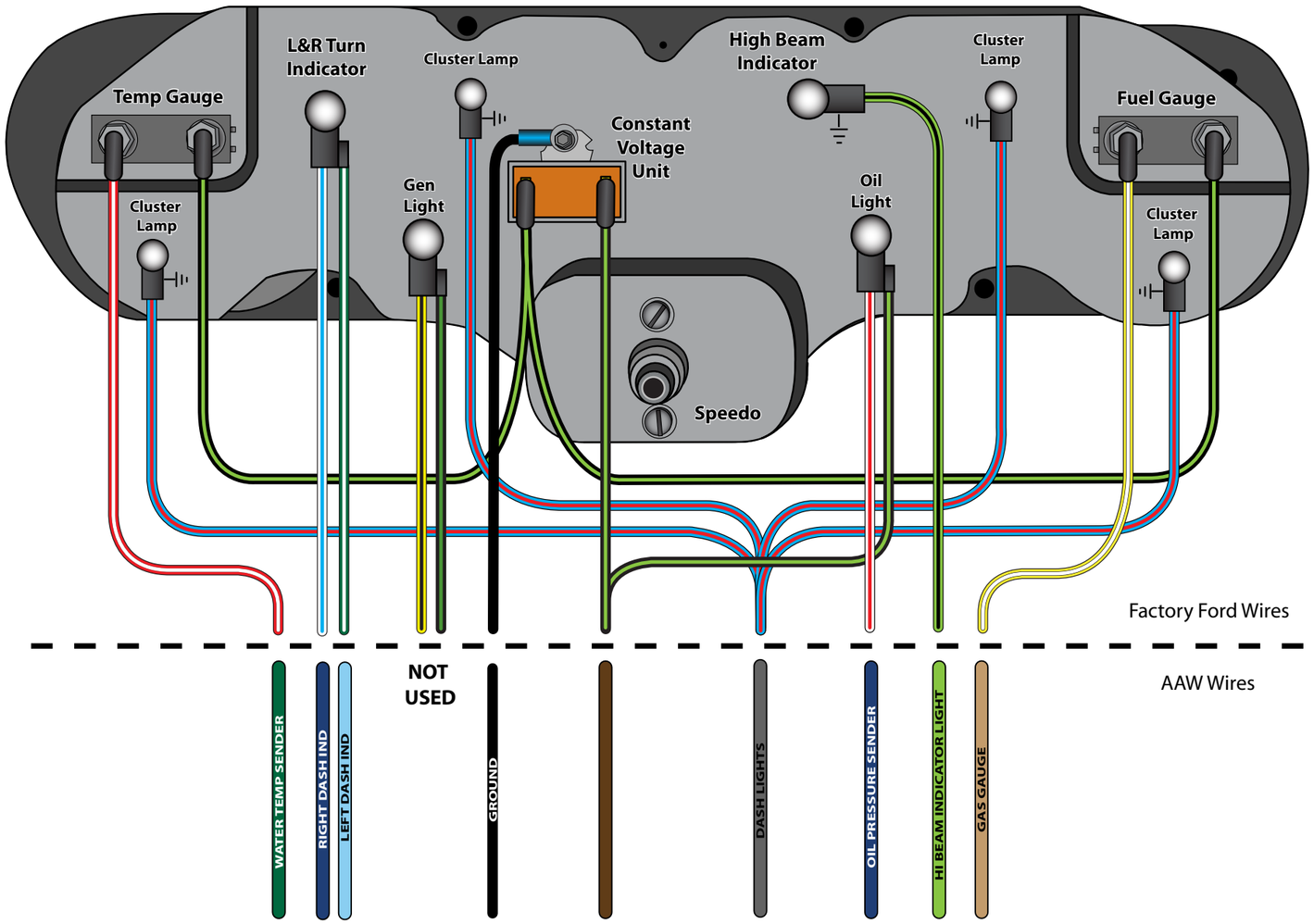

Table 'B' - AAW Instrument Cluster Kit wires to stock 1964 - 66 Mustang instrument cluster wires.

AAW Wire #	AAW Wire color	AAW Wire Printing	Ford Wire Color
4E	Brown		Black with light green stripe This is the accessory feed for the voltage reducer for certain stock gauges.
8	Gray	Dash Lights	Blue with red stripe.
9C	Brown	Park Lights	Connect to any instrument cluster requiring a signal to dim a digital display. When using analog gauges, this wire will not be required.
11B	Light Green	Headlight Low Beam	Green with black stripe.
14A	Light Blue	Left Dash Ind	Green with white stripe.
15B	Dark Blue	Right Dash Ind	White with blue stripe.
30	Tan	Gas Gauge	Yellow with white stripe.
31	Dark Blue	Oil Pressure Sender	White with red stripe.
33	Tan	Brake Light	Purple with white stripe.
35	Dark Green	Water Temp Sender	Red with white stripe.
39A	Pink	12V Ignition	For use only with after market gauges needing a “key on” full 12 volt feed.
121	White	Coil-Tach	Sender terminal of the tachometer.
150	Black	Ground	Connect to the Ground terminals of each gauge and dash lamp. An in line splice is necessary to feed each ground requirement in the instrument cluster.
400	Yellow	VSS Ground	Connect to a good chassis ground or the VSS ground terminal on an electronic speedometer. Mechanical speedometers do not require this connection.
401	Purple	VSS Signal	Connect to the VSS pulse signal or sender terminal of the electronic speedometer. Mechanical speedometers do not require this connection.
99	Yellow	Radio Bat	Light blue with white stripe or light blue with black stripe. This is the 12 volt feed for the dash clock. If you are using a radio with a digital clock, it will be necessary to splice into this wire to create 2 leads. One to the dash clock, and one to the radio.

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PART # 510125
DESCRIPTION: 1964-66 Mustang Classic Update Series Kit
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1965 Mustang with fuel and temp gauge, oil and gen lamps

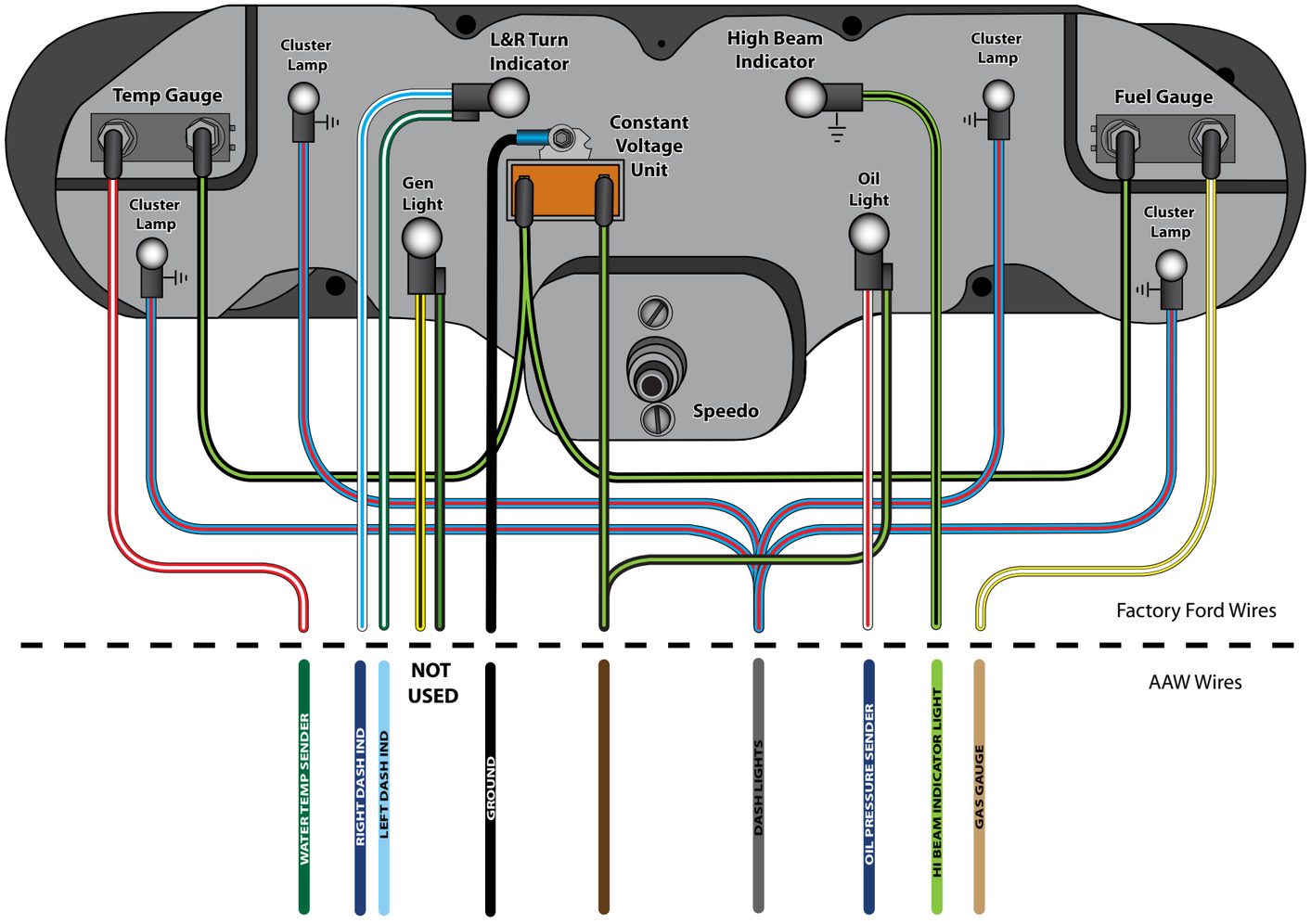

Table 'B' - AAW Instrument Cluster Kit wires to stock 1964 - 66 Mustang instrument cluster wires.

AAW Wire #	AAW Wire color	AAW Wire Printing	Ford Wire Color
4E	Brown		Black with light green stripe This is the accessory feed for the voltage reducer for certain stock gauges.
8	Gray	Dash Lights	Blue with red stripe.
9C	Brown	Park Lights	Connect to any instrument cluster requiring a signal to dim a digital display. When using analog gauges, this wire will not be required.
11B	Light Green	Headlight Low Beam	Green with black stripe.
14A	Light Blue	Left Dash Ind	Green with white stripe.
15B	Dark Blue	Right Dash Ind	White with blue stripe.
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31	Dark Blue	Oil Pressure Sender	White with red stripe.
33	Tan	Brake Light	Purple with white stripe.
35	Dark Green	Water Temp Sender	Red with white stripe.
39A	Pink	12V Ignition	For use only with after market gauges needing a "key on" full 12 volt feed.
121	White	Coil-Tach	Sender terminal of the tachometer.
150	Black	Ground	Connect to the Ground terminals of each gauge and dash lamp. An in line splice is necessary to feed each ground requirement in the instrument cluster.
400	Yellow	VSS Ground	Connect to a good chassis ground or the VSS ground terminal on an electronic speedometer. Mechanical speedometers do not require this connection.
401	Purple	VSS Signal	Connect to the VSS pulse signal or sender terminal of the electronic speedometer. Mechanical speedometers do not require this connection.
99	Yellow	Radio Bat	Light blue with white stripe or light blue with black stripe. This is the 12 volt feed for the dash clock. If you are using a radio with a digital clock, it will be necessary to splice into this wire to create 2 leads. One to the dash clock, and one to the radio.

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PART # 510125
DESCRIPTION: 1964-66 Mustang Classic Update Series Kit
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1965 Mustang with factory gauges; 1966 Mustang all

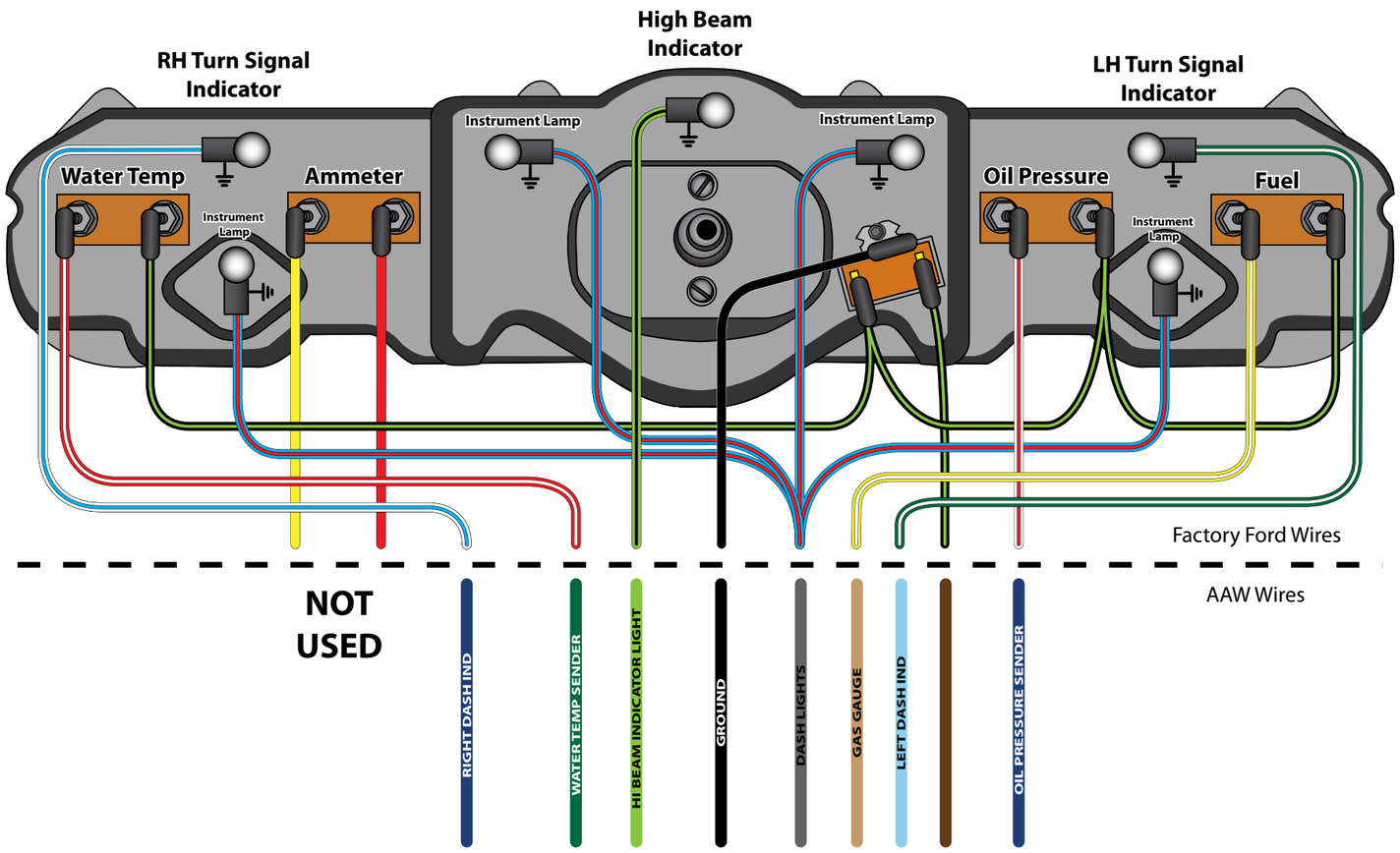

Table 'B' - AAW Instrument Cluster Kit wires to stock 1964 - 66 Mustang instrument cluster wires.

AAW Wire #	AAW Wire color	AAW Wire Printing	Ford Wire Color
4E	Brown		Black with light green stripe This is the accessory feed for the voltage reducer for certain stock gauges.
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9C	Brown	Park Lights	Connect to any instrument cluster requiring a signal to dim a digital display. When using analog gauges, this wire will not be required.
11B	Light Green	Headlight Low Beam	Green with black stripe.
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35	Dark Green	Water Temp Sender	Red with white stripe.
39A	Pink	12V Ignition	For use only with after market gauges needing a “key on” full 12 volt feed.
121	White	Coil-Tach	Sender terminal of the tachometer.
150	Black	Ground	Connect to the Ground terminals of each gauge and dash lamp. An in line splice is necessary to feed each ground requirement in the instrument cluster.
400	Yellow	VSS Ground	Connect to a good chassis ground or the VSS ground terminal on an electronic speedometer. Mechanical speedometers do not require this connection.
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99	Yellow	Radio Bat	Light blue with white stripe or light blue with black stripe. This is the 12 volt feed for the dash clock. If you are using a radio with a digital clock, it will be necessary to splice into this wire to create 2 leads. One to the dash clock, and one to the radio.

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PART # 510125

DESCRIPTION:
1964-66 Mustang
Classic Update Series Kit

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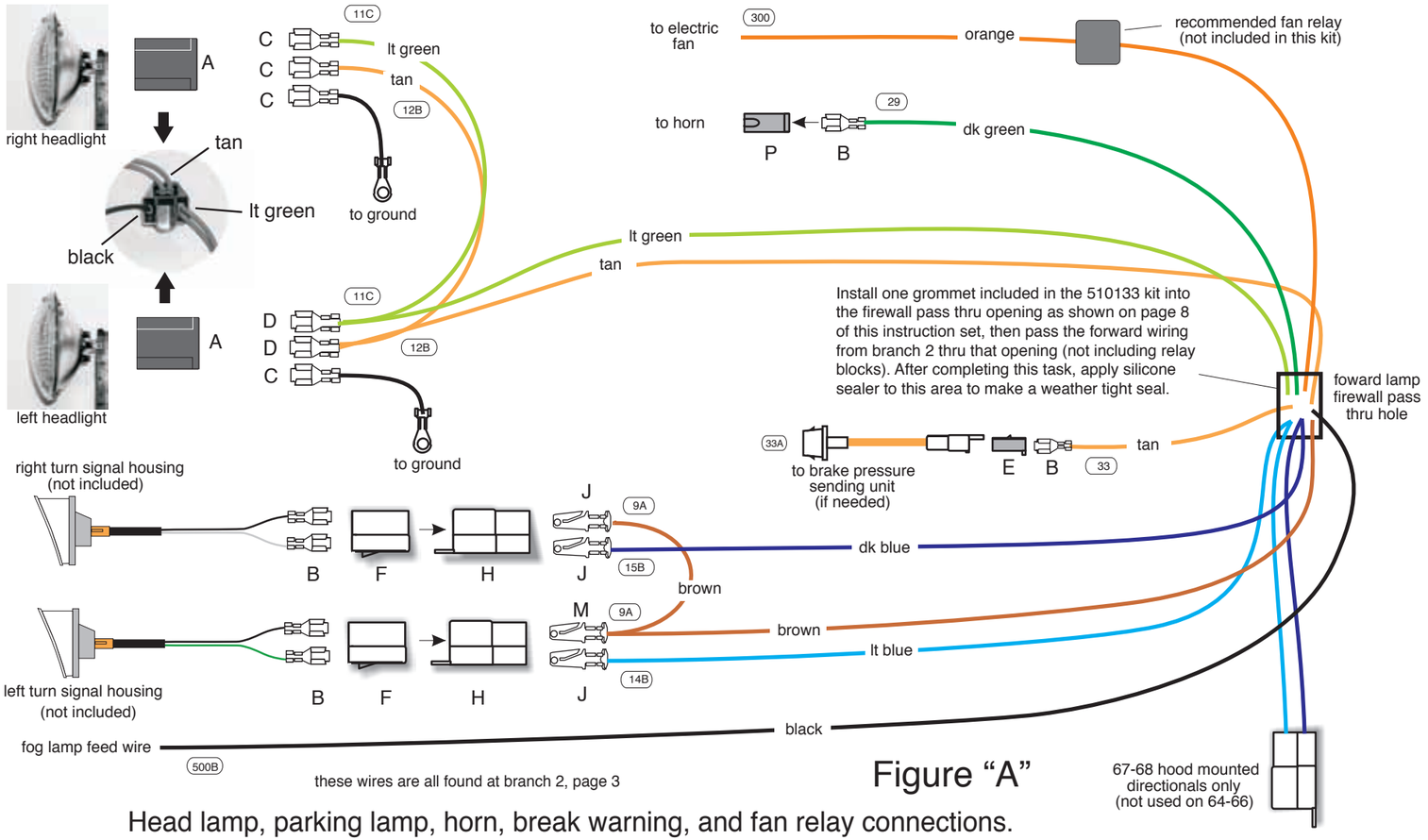


Figure “A”

Head lamp, parking lamp, horn, break warning, and fan relay connections.

Main system power feed and alternator power feed connections.

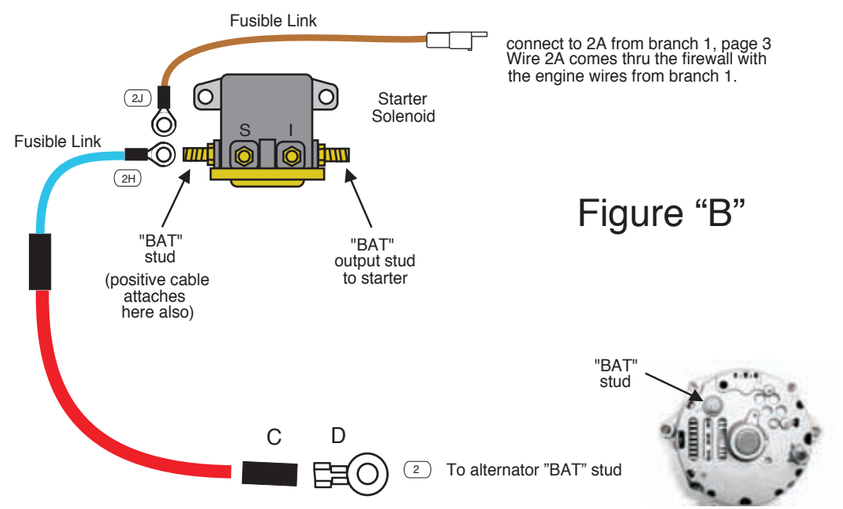
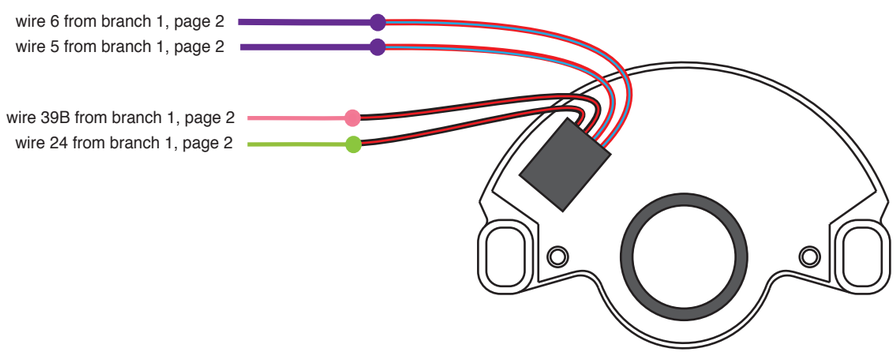


Figure “B”

Figure “C”

Shown is a typical NSS and Back Up Switch.



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 clamp, grommet, and parts kit, P/N 510133.

The identifications, colors, and functions for all of the wires listed in “Figures A, B, and C” on this page can be found on page 3, branches 1 and 2 of this instruction set. AAW suggests and recommends using both pages 3 and 12 to complete the installation of the foward lamp, main power, alternator power, and neutral safety connections.

AAW kits are all engineered to be used in conjunction with a high output, later model internally regulated, or one wire alternator. We do not suggest or support the use of a stock low amperage generator or alternator as they do not supply sufficient current to recharge the battery in a highly modified car such as this kit was designed for. AAW suggests a Ford Gen III type alternator as a good choice of an alternator to use. An adpater to complete the connection to this style alternator, our P/N 500802, my be purchased separately if needed. Contact our Sales Group or your favorite retailer to purchase this alternator adapter if needed.

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PART # 510125

DESCRIPTION:

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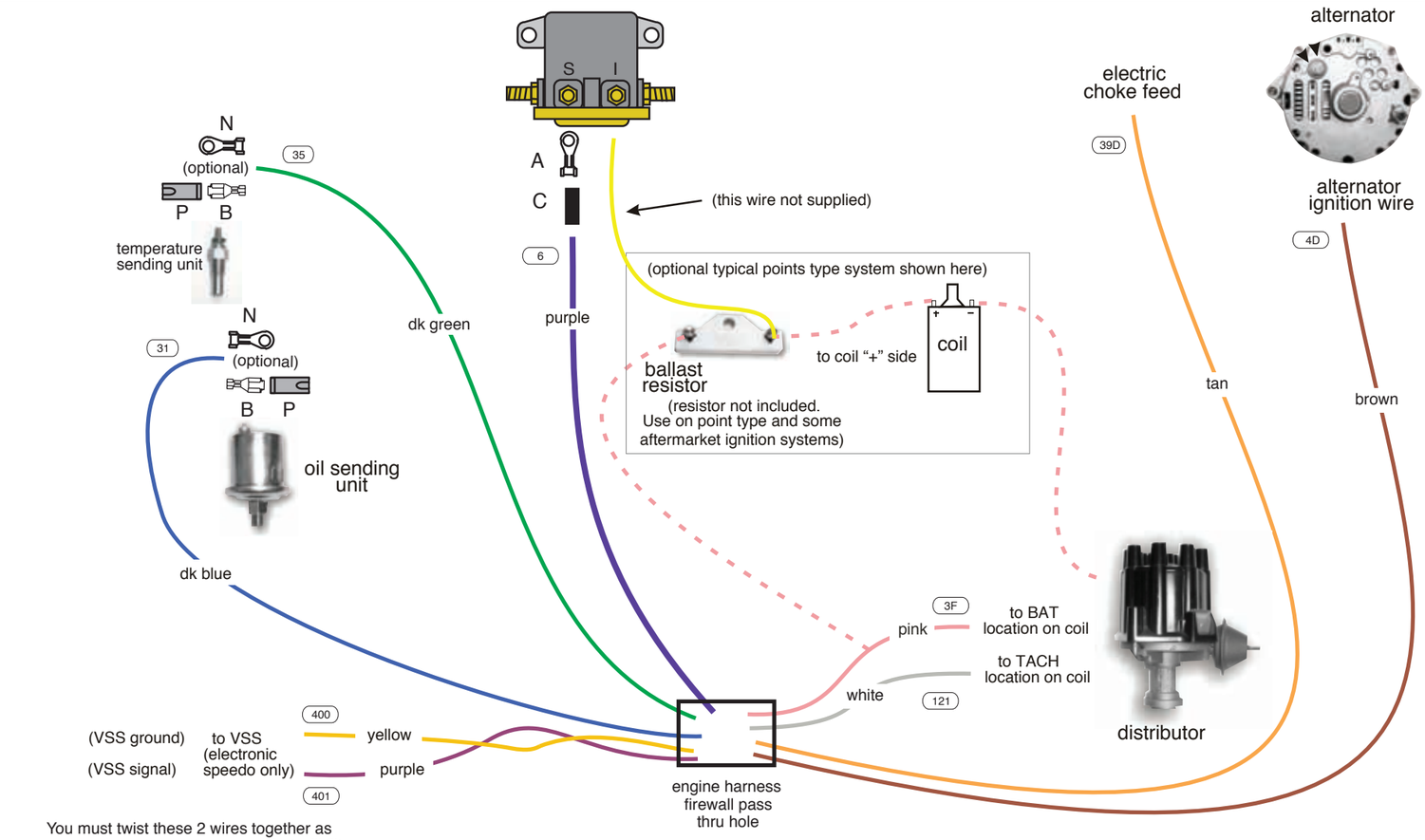

You must twist these 2 wires together as shown above to create a co-ax that will filter out any outside interference to the signal on your electronic speedometer.

Install one grommet included in the 510133 kit into the firewall pass thru opening as shown on page 8 of this instruction set, then pass the engine, alternator ignition, starter sloenoid, and main feed wiring from branch 1 thru this opening (except for the the heat and A/C Feed 50 wire). The neutral safety and B/U lamp wires are optional to run inside or outside the car depending on your application. For starter and main feed connections, refer to "Figure B" on page 10. After completing this task, apply silicone sealer to this area to make a weather tight seal.

Figure "D"

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, temp and oil senders, electric choke, starter solenoid, alternator regulator, etc. can be found in your loose piece clamp, grommet, and parts kit, P/N 510133.

The identifications, colors, and functions for all of the wires listed in "Figures D, E, and F" on this page can be found on page 3, branch 1 of this instruction set. AAW suggests and recommends using pages 3, 12, and 13 to complete the installation of the engine and alternator connections.

This AAW kit is engineered to work with most after-market manufacturer's heating and air conditioning systems. As such, we have provided a keyed 12-volt feed to use as the "OFF / ON" (AAW brown 50 wire) power source for whatever system you choose to purchase. The manufacturer will supply you with a harness for their system and instructions on how to connect it. In the event you are utilizing a stock heater system in your car, again we have provided the keyed 12-volt feed only. Figures E and F below depict the typical connections for both the 2 speed and the 3 speed heating systems used in a stock Mustang. AAW DOES NOT provide any of the other wiring from the switches to the resistors, or to the blower motor.

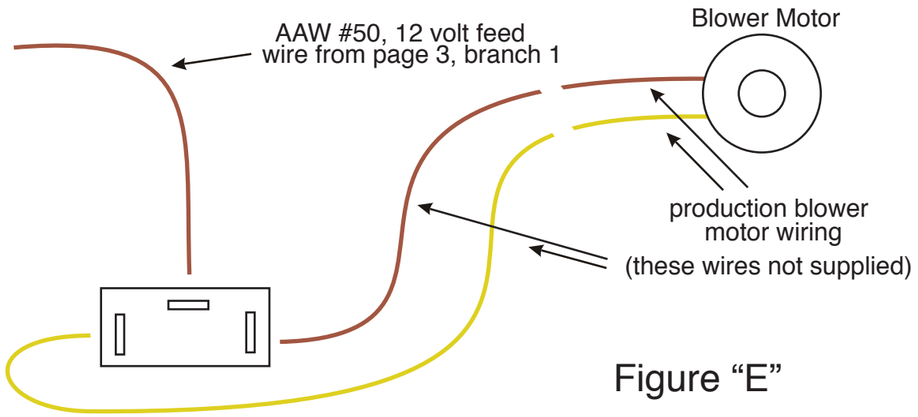

Figure "E"

2 Speed Heater Motor Connections

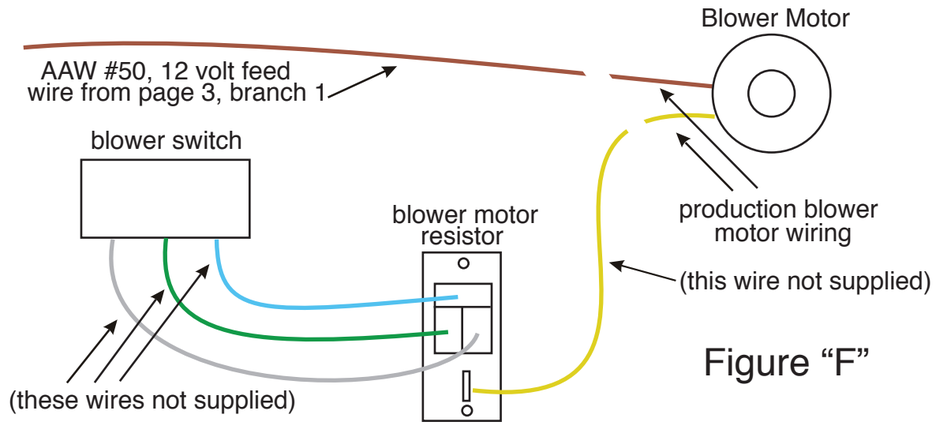

Figure "F"

3 Speed Heater Motor Connections

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PART # 510125

DESCRIPTION:

1964-66 Mustang
Classic Update Series Kit

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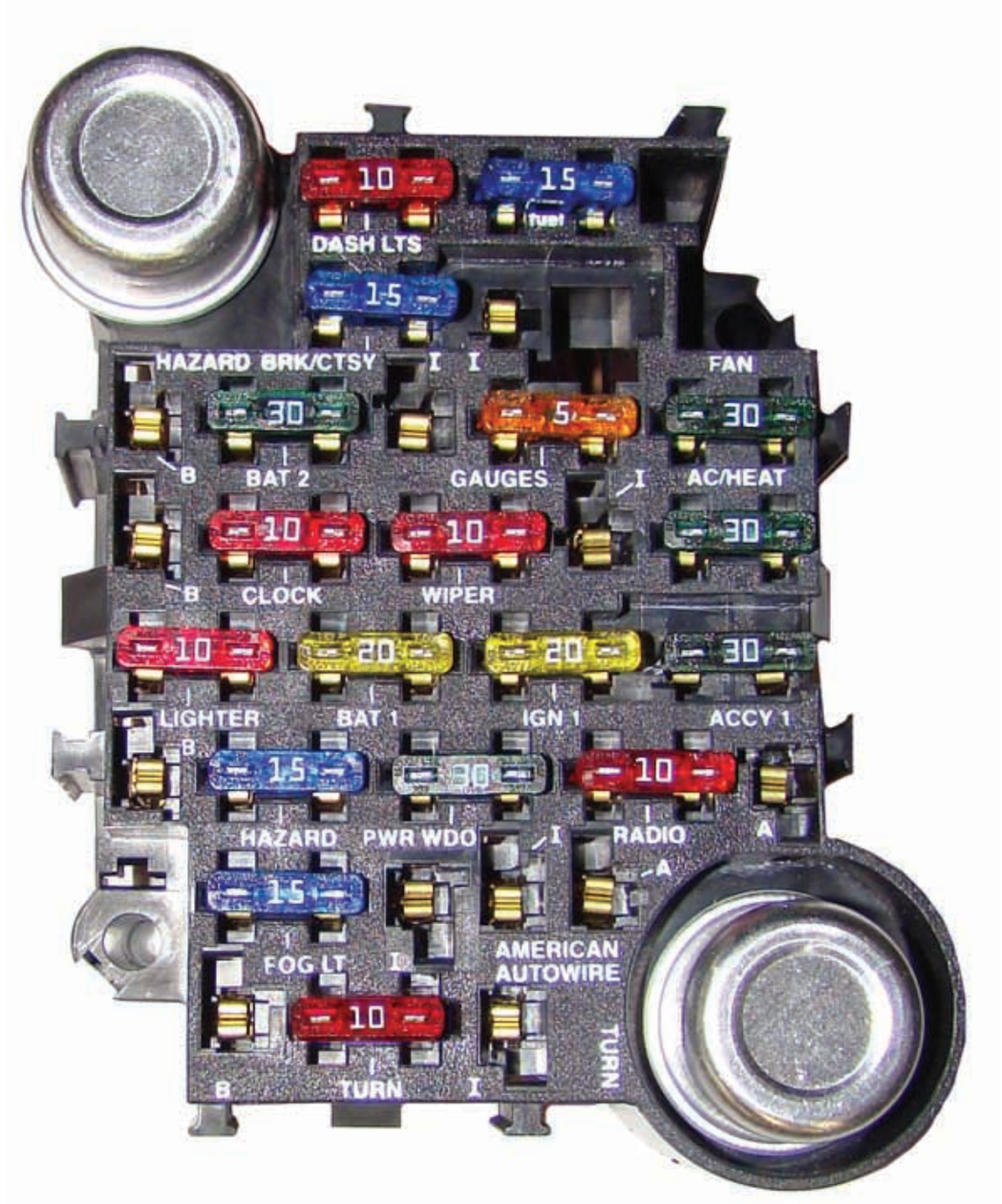
Fuse Placement and circuit values



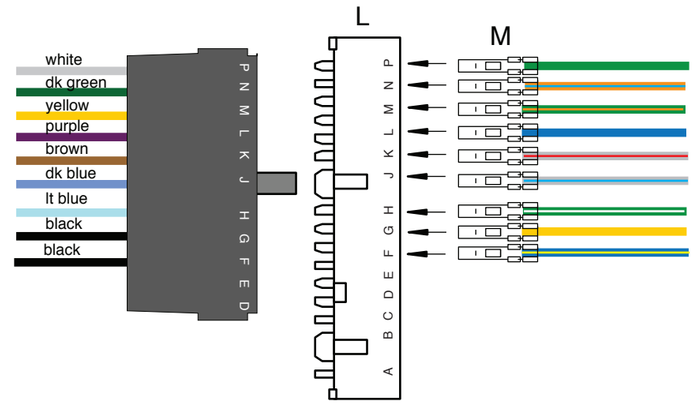


DIAGRAM 'A' - AAW Turn Signal Switch Wires to Stock 1964-66 Steering Columns.

Table 'A' - AAW Turn Signal Switch wires to stock 1964 - 66 Mustang turn signal switch.

AAW Wire #	AAW Wire color	AAW Wire Printing	Ford Wire Color
14A	Light Blue	Left Front Turn	Green with white stripe
15B	Dark Blue	Right Front Turn	White with blue stripe.
16	Purple	Turn Switch Feed	Blue
17A	White	Brake Switch	Green
18	Yellow	Left Rear Turn	Green with orange stripe.
19	Dark Green	Right Rear Turn	Orange with blue stripe.
27	Brown	Turn Sw - Hazard	White with red stripe.
28	Black	Horn Relay Ground	Yellow
28A	Black	Horn Relay Ground	Blue with yellow stripe. Note: Ford originally switched power to the horns through the steering 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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PART # 510125

DESCRIPTION: 1964-66 Mustang Classic Update Series Kit

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