

**STEP 1**

Install the blade terminals to the back of each of the 4 small gauges. Secure with lock washer and nut. There are specific left, center, and right hand terminals. Install as shown in photo.

**NOTE:** Voltmeter uses the 'GRD' & 'I' terminal locations only.



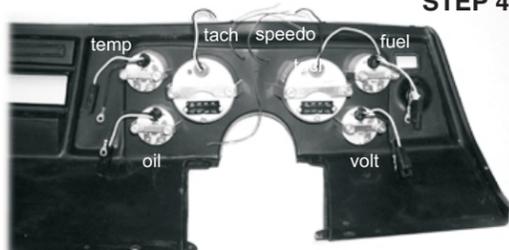
**STEP 2**

Plug in appropriate lamp socket pigtail into the 4 smaller gauges.



**STEP 3**

Install appropriate lamp socket pigtails into the speedometer & tachometer.

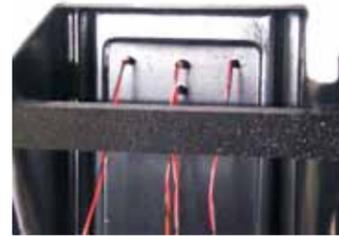


**STEP 4**

Insert gauges into housing, in locations shown.



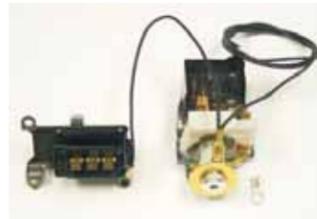
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**STEP 5**

Drill 4 mounting holes for LED's, using 5/32" drill bit, at desired locations. Insert LED's in hole from front of panel.

**NOTE:** The LED housings are a taper fit into the hole. Press the LED housing all the way in to tighten against the instrument panel.



**STEP 6**

A grounding kit is included for your headlight and wiper switch. Connect as shown, routing to a good chassis ground with the supplied ring terminal.



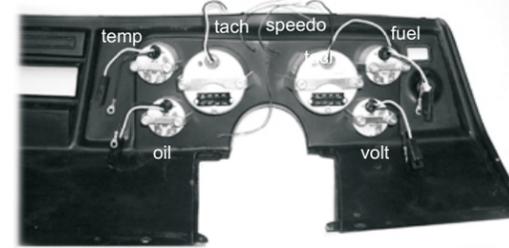
**STEP 7**

Connect the black ground wires from the lamp pigtails to the center ground studs of the smaller gauges as shown.

**NOTE 1:** This picture shows connection of individual light sockets as would appear on Series I gauges. The speedometer and tachometer have separate twist-in light sockets.



**NOTE 2:** This picture shows connection of lighting as would appear on Series II gauges. A separate blade terminal for power and ground exists for the internal lighting. The speedometer and tachometer have a specific lamp terminal within the 8 cavity plug.



**STEP 8**

Install the mounting brackets on all the 6 gauges. The completed assembly is now ready for the connection of the wiring harness. Note that this assembly shows Series I gauges.



**STEP 9**

Plug in gauge connections using supplied connectors. Plug in connectors in the order shown below. Typical plug-in shown in picture.

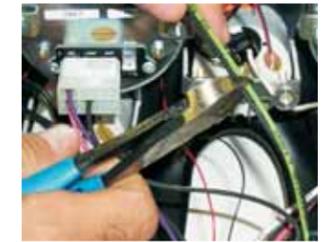
1. FUEL pink / black / tan
2. TACH pink / black / white
3. TEMP pink / black / dk green
4. OIL pink / black / dk blue
5. VOLT pink / black
6. SPEEDO pink / black / purple



**STEP 10**

Plug each lamp power wire (white) into the mating connectors on each gray wire (DASH LIGHTS) on the new harness.

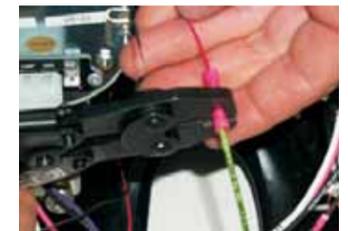
**NOTE:** The supplied wiring harness comes with plug-in female terminals for the power and ground terminals of the Series II type 2 1/16 inch and 2 5/8 inch gauges. This is a direct plug into the terminals on the gauge. If you are using Series I gauges, you will have to remove these terminals and connectors and install the male and female disconnect terminals supplied in the kit to connect the individual light sockets. This picture shows this connection type. Please refer to the instruction sheet in the 500928 Gauge Side Wiring sub-kit for a more detailed explanation of the differences in the gauges.



**STEP 11**

Select an LED lamp from the panel, and attach the appropriate signal lead wire from the harness, as noted below. Each signal wire will attach to the red LED lead wire from the panel. Trim the wires from the harness to the desired length before crimping.

LED color	function	power wire color
blue	hi-beam	light green
green	lh turn	lt blue
green	rh turn	dk blue
red	brake	pink



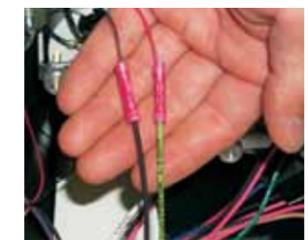
**STEP 12**

Install butt connectors, as shown, matching the wire functions noted above with the proper LED. Trim the wires from the harness to the desired length before crimping.

Match the black wire from each LED lamp with a black ground wire from the harness for all LED lamps except the red brake warning LED.

If you are using the red brake warning LED lamp, remove the factory lamp socket and attach the black lead wire from this LED lamp to the factory tan wire. (as noted above, the red will connect to the factory pink wire).

LED color	function	signal ground wire color
red	brake	tan



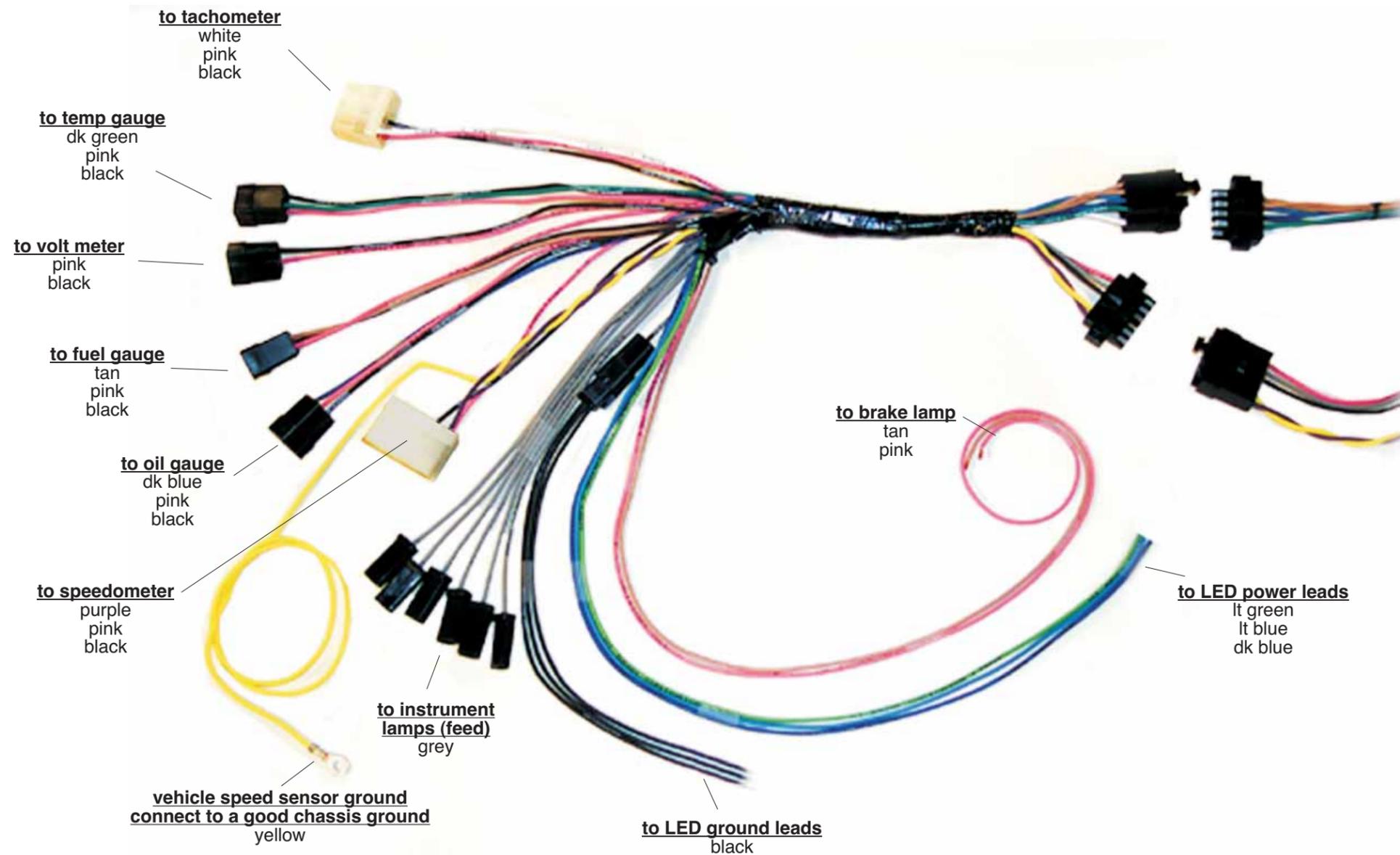
This is a completed LED splice.

## 1968-69 Chevelle Gauge Cluster Kit Installation Instructions

# 510029

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Follow the installation instructions on sheet 1 for connecting the gauge wiring.

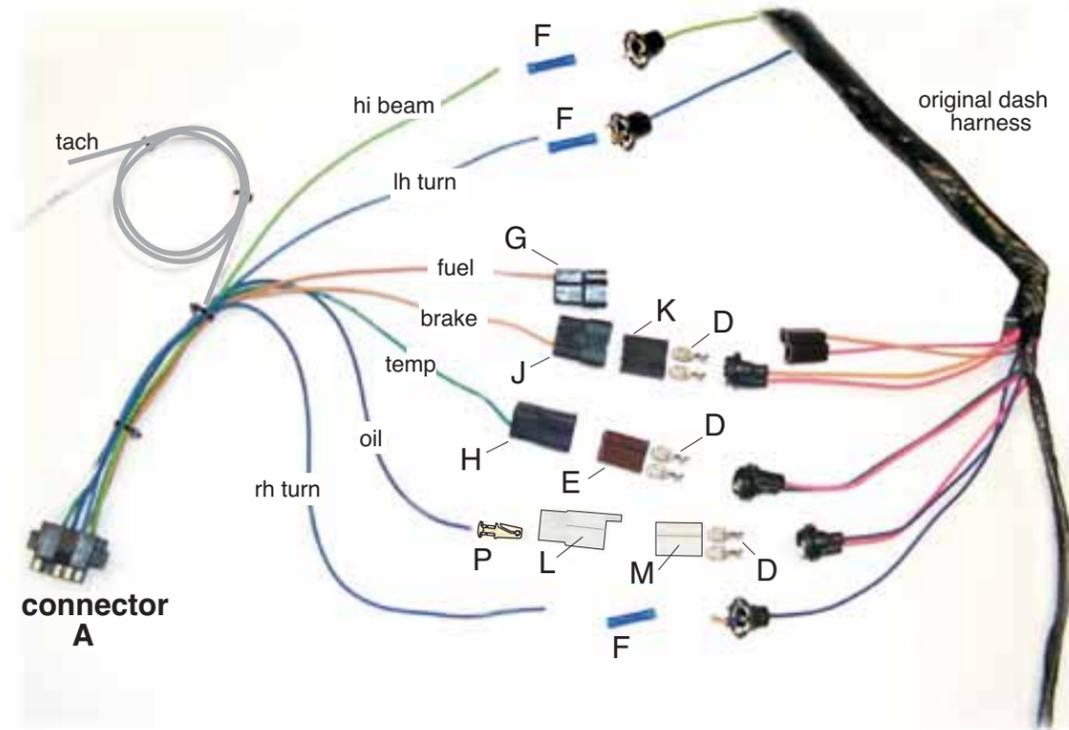


Connect these wires to the stock dash wiring following the instructions on the following page. Please refer to sheet 3 for a 1968 Chevelle, and sheet 4 for a 1969 Chevelle.



# 1968

1968 Chevelle w/o original factory gauges



connector A

# 1968

**CONNECTOR A**

- LT GREEN (Hi Beam Indicator) Using a butt splice connector F, connect to the existing lt green wire (hi beam) in the instrument lamp pod.
- LT BLUE (Left Turn Indicator) Using a butt splice connector F, connect to the existing lt blue wire (left turn).
- DK BLUE (Right Turn Indicator) Using a butt splice connector F, connect to the existing dk blue wire (right turn).
- TAN (Fuel Gauge) Connector G will plug into the factory fuel gauge connector after completing the installation of "Connector B".
- DK GREEN (Temperature Sender) ORIGINAL WARNING LAMP CAR: Install terminals D and connector E on existing dk green and pink wires from temperature lamp. Plug this connection into connector H, the pink wire will not pass through. ORIGINAL FACTORY GAUGE CAR: plug connector H into the factory temperature gauge connector. The pink wire will not pass through.
- DK BLUE (Oil Pressure) ORIGINAL WARNING LAMP CAR: Install terminals D and connector M on existing oil lamp wires, blue & pink. Install terminal P and connector L on the oil pressure wire, maintaining color continuity with the wires in connector M. Plug connector L into connector M. The pink wire will not pass through this connection. ORIGINAL FACTORY GAUGE CAR: Route this oil pressure wire to the oil sending unit on the engine block.
- WHITE (Tachometer) Route this wire through the firewall and connect to the negative (distributor) side of coil.
- TAN (Brake - No Printing) Install terminals D on the existing tan and pink wires from the brake lamp, and install in connector K maintaining color continuity with connector J. Plug connector K into connector J. The pink wire will not pass through.

**CONNECTOR B**

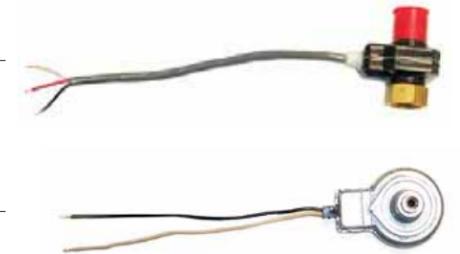
- PURPLE (Vehicle Speed Sensor - signal) Route to vehicle speed sensor unit (VSS) signal lead wire.
- YELLOW (Vehicle Speed Sensor - ground) Route to vehicle speed sensor unit (VSS) ground wire. Twist this wire with the purple wire above. This will properly shield the signal wire from interference.
- BLACK (Ground) Connect to a good chassis ground.
- GREY (Instrument Lights) Plug this wire to the LAMPS location on the fuse box, as shown below in Detail 'X'.
- PINK (12V Ignition) Install the pink wire into the open cavity of connector G, as shown in Detail 'X'. Plug connector G into the stock fuel gauge connector at this time.

**NOTE:** All remaining wires from your original instrument cluster should be taped back, with the terminals protected.



**vehicle speed sensor (2 and 3 wire type shown)**

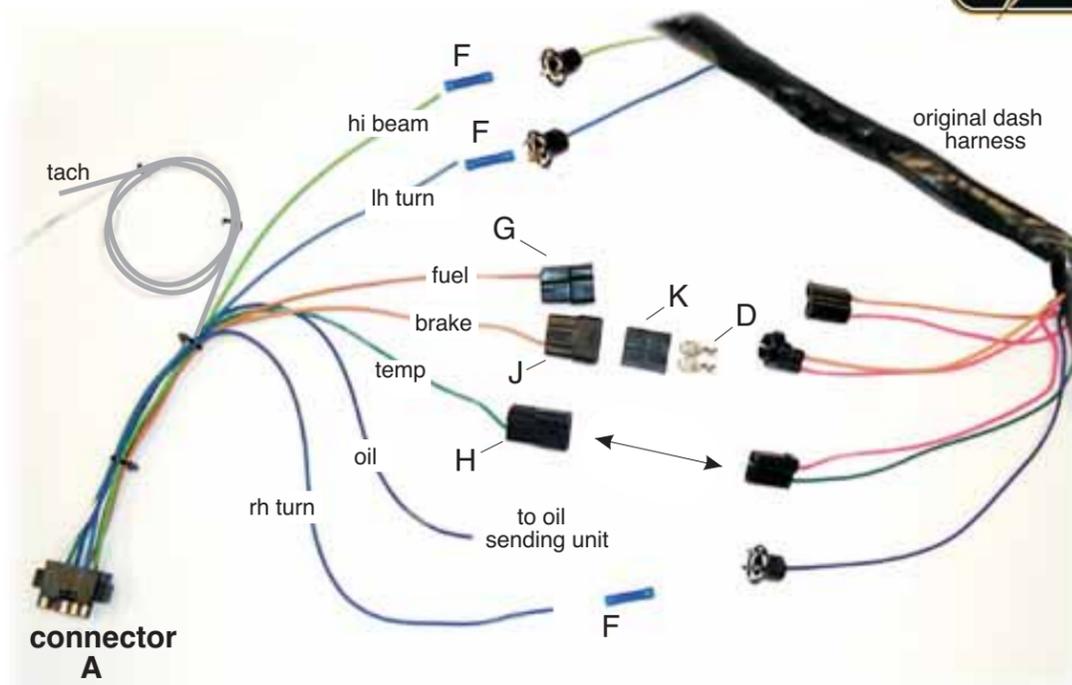
- white (signal lead- connect to the purple wire)
- black (ground- connect to the yellow wire)
- red (ignition- connect to a know ignition feed)



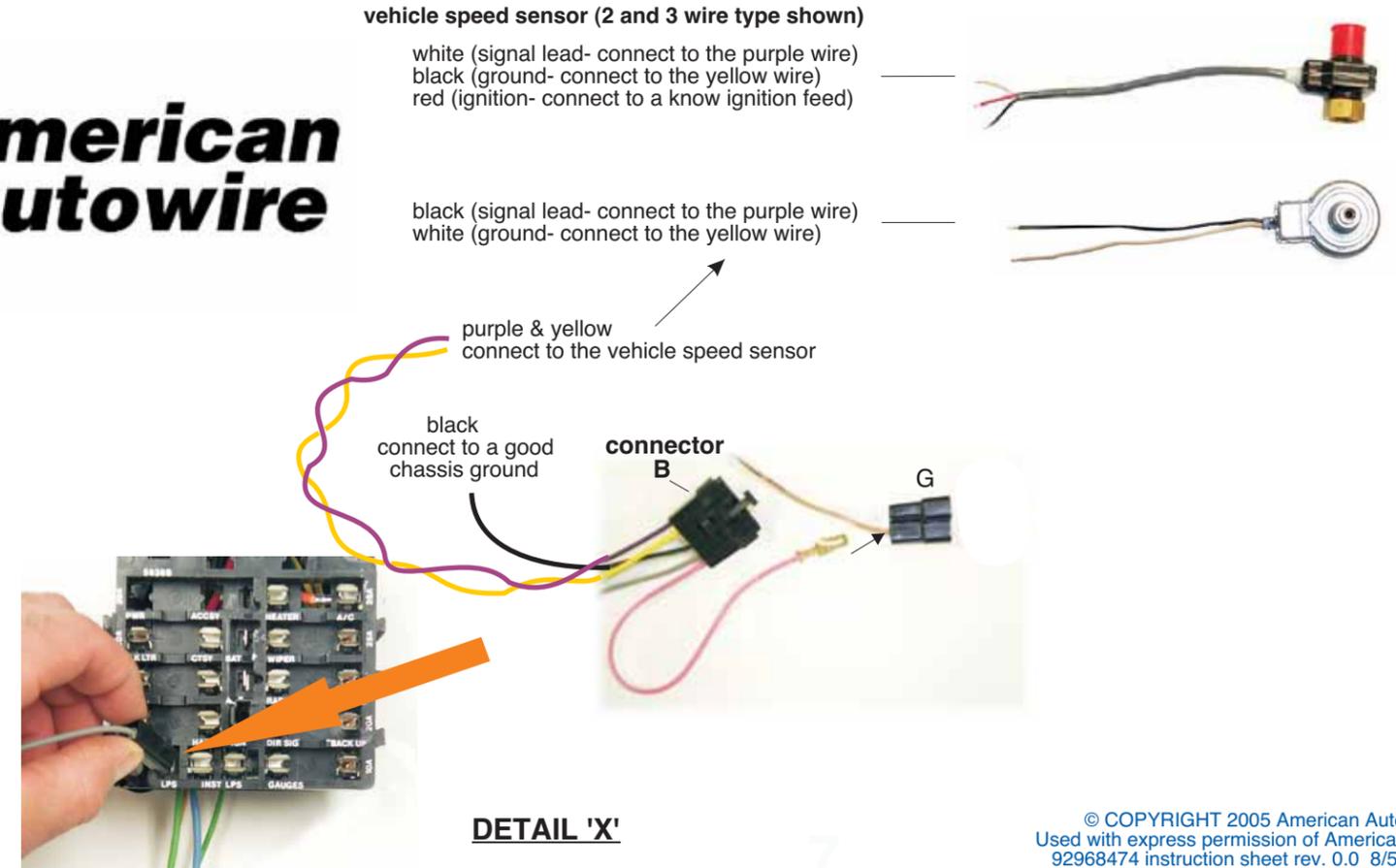
- black (signal lead- connect to the purple wire)
- white (ground- connect to the yellow wire)

# 1968

1968 Chevelle with original factory gauges



connector A

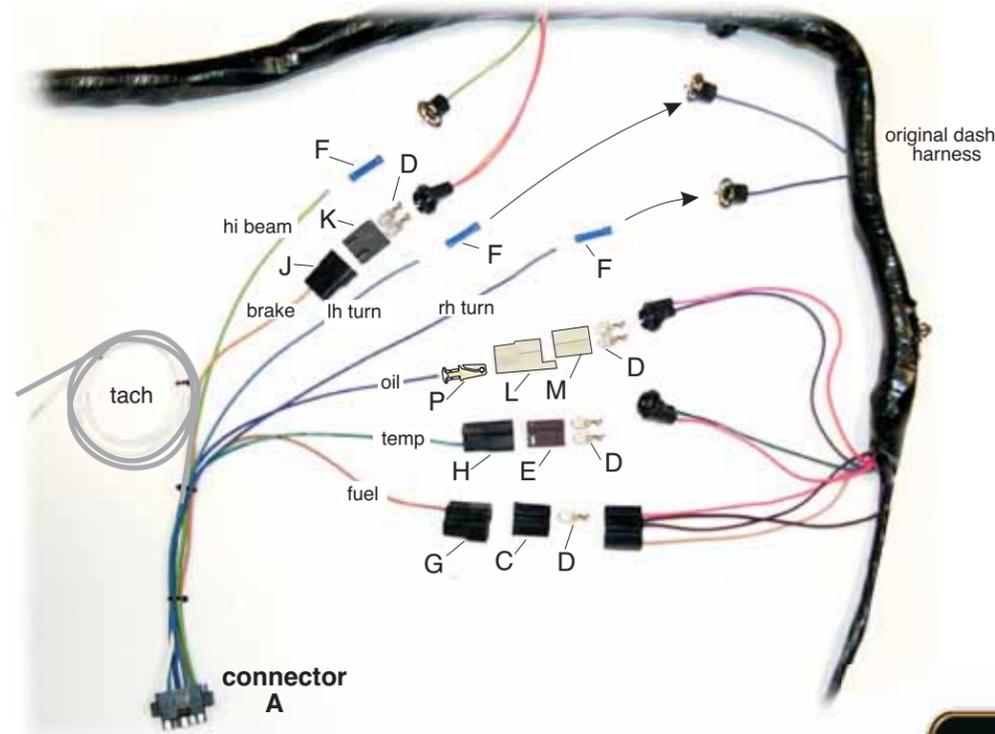


**DETAIL 'X'**

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# 1969

## 1969 Chevelle w/o original factory gauges



# 1969

## CONNECTOR A

- LT GREEN (Hi Beam Indicator) Using a butt splice connector F, connect to the existing lt green wire (hi beam) in the instrument lamp pod.
- LT BLUE (Left Turn Indicator) Using a butt splice connector F, connect to the existing lt blue wire (left turn).
- DK BLUE (Right Turn Indicator) Using a butt splice connector F, connect to the existing dk blue wire (right turn).
- TAN (Fuel Gauge) Remove the tan and pink wires from the factory fuel gauge connector, and install them into connector C maintaining color continuity with the tan wire in connector G. Do not plug connector C into connector G at this time. The pink wire will pass 12 volt ignition power through to the gauge cluster after completing the installation of "Connector B".
- DK GREEN (Temperature Sender) ORIGINAL WARNING LAMP CAR: Install terminals D and connector E on existing dk green and pink wires from temperature lamp. Plug connector E into connector H, the pink wire will not pass through. ORIGINAL FACTORY GAUGE CAR: Plug connector H into the factory temperature gauge connector. The pink wire will not pass through.
- DK BLUE (Oil Pressure) ORIGINAL WARNING LAMP CAR: Install terminals D and connector M on existing oil lamp wires, blue & pink. Install terminal P and connector L on the oil pressure wire, maintaining color continuity with the wires in connector M. Plug connector L into connector M. The pink wire will not pass through this connection. ORIGINAL FACTORY GAUGE CAR: Install terminal P on this wire. Plug this terminal into connector J, maintaining color continuity with the factory oil gauge plug. Plug connector J into the factory oil gauge connector.
- WHITE (Tachometer) Route this wire through the firewall and connect to the negative (distributor) side of coil.
- TAN (Brake - No Printing) Install terminals D on the existing tan and pink wires from the brake lamp, and install in connector K maintaining color continuity with connector J. Plug connector K into connector J. The pink wire will not pass through.

## CONNECTOR B

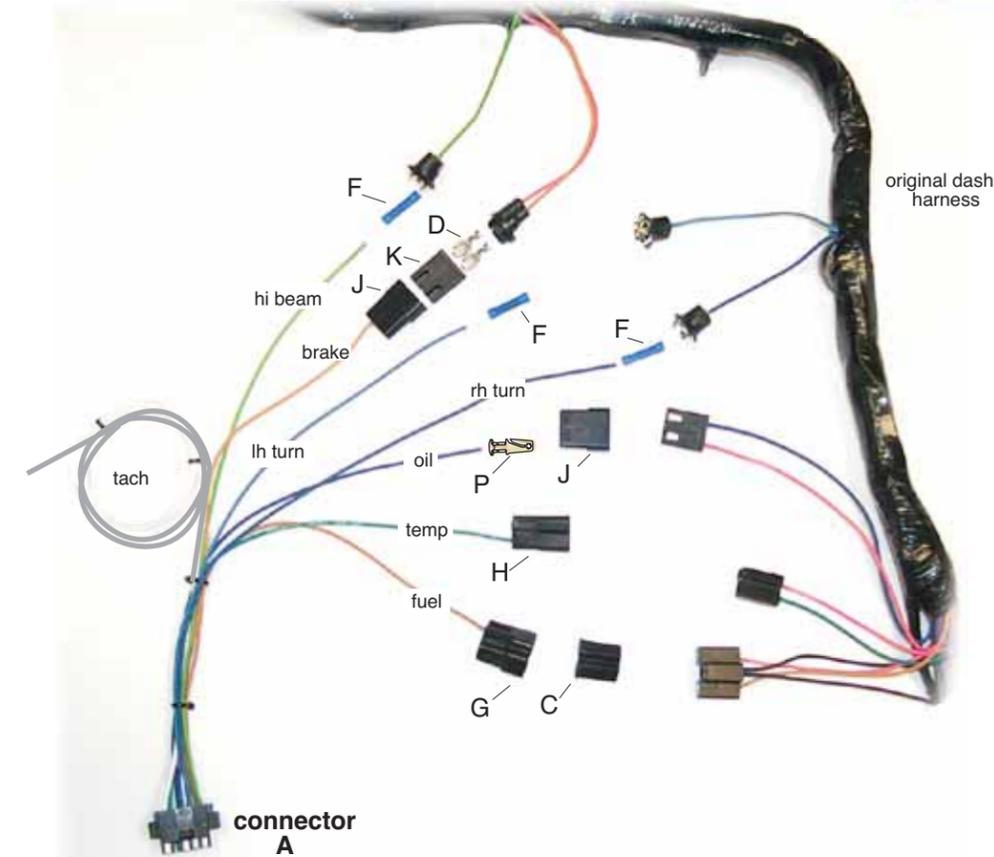
- PURPLE (Vehicle Speed Sensor - signal) Route to vehicle speed sensor unit (VSS) signal lead wire.
- YELLOW (Vehicle Speed Sensor - ground) Route to vehicle speed sensor unit (VSS) ground wire. Twist this wire with the purple wire above. This will properly shield the signal wire from interference.
- BLACK (Ground) Connect to a good chassis ground.
- GREY (Instrument Lights) Plug this wire to the LAMPS location on the fuse box, as shown below in Detail 'X'.
- PINK (12V Ignition) Install the pink wire into the open cavity of connector G, as shown in Detail 'X'. Plug connector G into connector C at this time.

**NOTE:** All remaining wires from your original instrument cluster should be taped back, with the terminals protected.



# 1969

## 1969 Chevelle with original factory gauges



### vehicle speed sensor (2 and 3 wire type shown)

- white (signal lead- connect to the purple wire)
- black (ground- connect to the yellow wire)
- red (ignition- connect to a know ignition feed)



- black (signal lead- connect to the purple wire)
- white (ground- connect to the yellow wire)

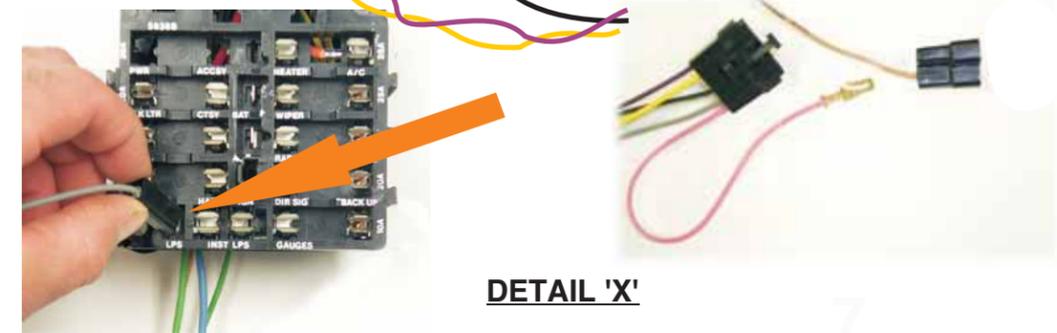


purple & yellow connect to the vehicle speed sensor

black connect to a good chassis ground

### connector B

G



### DETAIL 'X'

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