BLACK   BLACK/WHITE
STRIPE

Looking into the open end of the connector, with the wires facing away from you, remove these 2 wires.

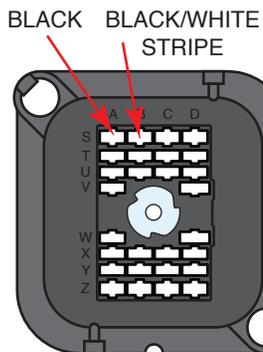FIGURE 1

BLACK   BLACK/WHITE
STRIPE

A B C D
S
T
U
V
W
X
Y
Z

Looking at the back of the bulkhead connector, as the wires plug into the it, remove these 2 wires from the bulkhead assembly.
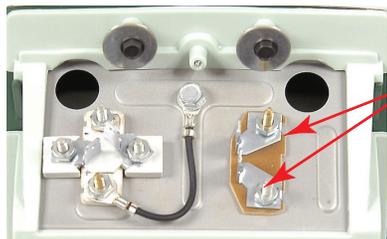
FIGURE 2

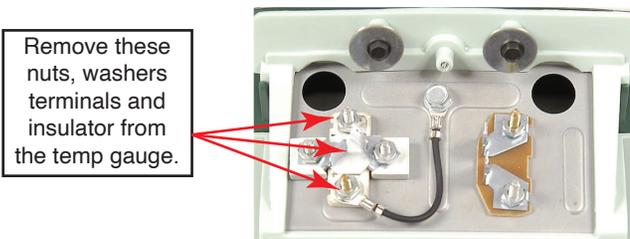Remove these nuts, washers and terminals from the ammeter.

FIGURE 3

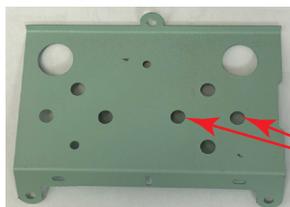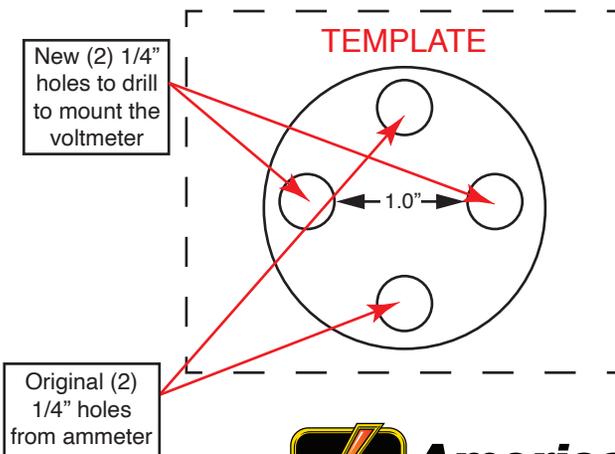Remove these nuts, washers terminals and insulator from the temp gauge.

FIGURE 4

Drill these (2) new 1/4" holes to mount the new voltmeter

FIGURE 5

Installation Instructions:

1. Disconnect the negative battery cable from the battery.

2. Unplug the console harness from the dash harness assembly.

3. If your vehicle has the original factory wiring, go to the next step. If the American Autowire Classic Update kit is installed, or will be installed, go to step 6.

4. If the vehicle has the original factory wiring, looking into the open end of the dash side console connector, remove the black and black with white stripe wires at the locations shown on the connector (See Figure 1). Next, remove the black and the black/white striped wires at locations SA and SB from the dash bulkhead connector assembly at the firewall (See Figure 2)

   Note: Terminals can be removed by depressing the terminal tangs with a thin pick at the face of connector and pulling the wire terminal out the back of connector.

5. Cut the terminals off each of the wires, and tape the wire ends down to the trunk of the harness.

   CAUTION: Failure to disconnect the black and black/white striped wires at the console connection and bulkhead connection could result in a short circuit and cause damage to your harnesses.

6. Locate and remove the nuts, washers and terminals connected to the original ammeter mounted in the forward gauge plate of the console gauge cluster (See Figure 3). Remove the nuts, washers, terminals and insulator connected to the original temp gauge paying particular attention to their orientation as you will have to re-install them later. Remove the two gauges from the mounting plate. (See Figure 4)

7. Remove the three screws that attach the mounting plate to the console gauge housing that contained the original ammeter and temp gauge, then remove the mounting plate from the console gauge housing.

8. Using the provided template below, you will need to drill two new 1/4" holes in the mounting plate to install the new voltmeter. Line the template up using the two original vertical ammeter holes, then mark the gauge plate to drill the two 1/4" horizintal holes (1.0" between them, center/center) (See Figure 5).

TEMPLATE

New (2) 1/4" holes to drill to mount the voltmeter

← 1.0" →

Original (2) 1/4" holes from ammeter

American Autowire

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PART #
510121

DESCRIPTION:
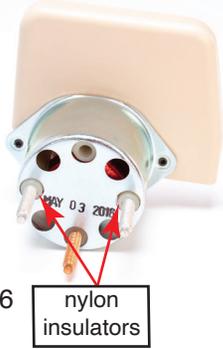1968-69 Camaro Console Voltmeter Assembly

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Installation Instructions Continued:

9. Re-install the original temp gauge into the mounting plate using the nuts, washers, terminals and insulator that you removed in step 6, Figure 4, paying particular attention to the orientation as you removed them earlier.

10. Install the new voltmeter into the mounting plate being sure to align the two nylon insulators (See Figure 6) through the two new holes in the mounting plate using the provided nylon washers "F", and nuts "E". Use a third nut "E" to attach the copper ground stud directly to the gauge plate (See Figure7).

   IMPORTANT: Check that the two silver threaded studs do not come in contact the metal housing assembly.

11. Figure 8 shows the new voltmeter as it is now installed in the console gauge plate.

12. Install the completed mounting plate with the new ammeter and original temp gauge back into the console gauge housing using the three screws removed earlier in step 7.

13. Connect the pink 12v ignition wire "C" ring terminal to the voltmeter's RH silver colored stud. Install and tighten the provided nut "E". Important: Do not overtighten the nut (See Figure 9).

14. Connect one end of the black ground wire "D", with the ring terminals on either end, to the voltmeter's copper colored stud. Install and tighten provided nut "E". Important: Do not overtighten the nut (See Figure 9).

15. Re-assemble the console gauge cluster pod, and install the completed assembly back into the console.

16. Once the console and gauge pod have been re-installed into the car, route and attach the loose end of the black wire (D) with ring terminal up under the dash to a good chassis ground.

17. Route and attach the loose end of the pink 12v Ignition wire (C) to the fuse box area. If installing into:

   Classic Update Kit with ATO fuses: Cut wire to length and connect it to the Classic Update accessory connector, using the connector terminal (A) provided. You will also need to change the fuse for this circuit using the included 5 amp fuse (G). See Figure 10, Page 3 for instructions.

   Original fuse panel with glass fuses: Cut wire to length and attach it to the fused ignition "IGN" blade on the fuse panel using connector (B) and terminal (A) provided. See Figure 11, Page 4 for instructions.

18. Reconnect your battery and turn your key to the "ON" position. Your voltmeter should read between 12 and 14 volts if your battery is fully charged. Your installation is now complete.

FIGURE 6 nylon insulators

Install the new voltmeter into the mounting plate using the provided nylon washers "F" and nuts "E".
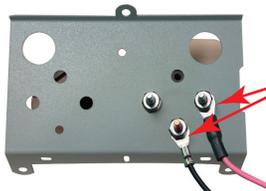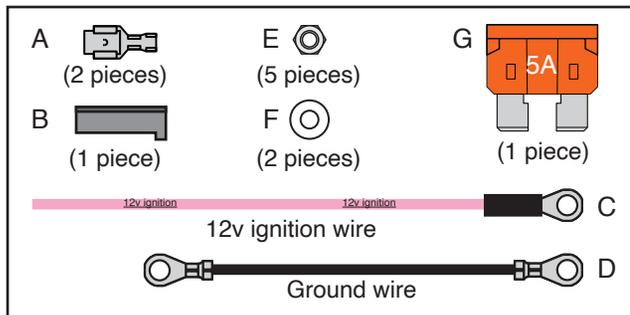
FIGURE 7

FIGURE 8

Install pink (C), and black (D) wires onto the gauge studs as shown.

FIGURE 9

A (2 pieces)
B (1 piece)
E (5 pieces)
F (2 pieces)
G 5A (1 piece)
C 12v ignition wire
D Ground wire

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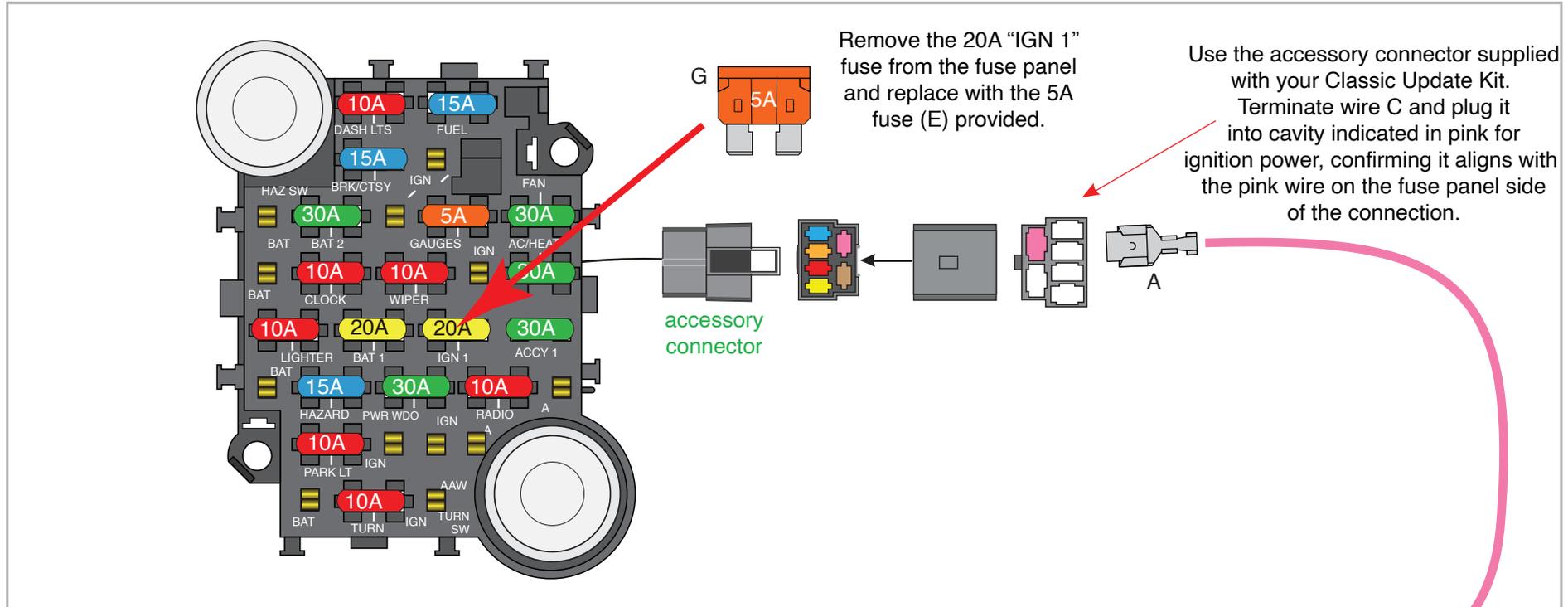
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PART #
510121
DESCRIPTION:
1968-69 Camaro Console Voltmeter Assembly
92969249   Rev 5.0   08/27/2025

FIGURE 10: Classic Update Kit Fuse Panel with ATO fuses:

Remove the 20A "IGN 1" fuse from the fuse panel and replace with the 5A fuse (E) provided.

Use the accessory connector supplied with your Classic Update Kit. Terminate wire C and plug it into cavity indicated in pink for ignition power, confirming it aligns with the pink wire on the fuse panel side of the connection.

G 5A

10A	15A
DASH LTS	FUEL

15A
BRK/CTSY   IGN   FAN
HAZ SW

30A	5A	30A
BAT BAT 2	GAUGES	AC/HEAT
	IGN	

10A	10A	30A
CLOCK	WIPER	
BAT

10A	20A	20A	30A
LIGHTER	BAT 1	IGN 1	ACCY 1
BAT

15A	30A	10A
HAZARD	PWR WDO	RADIO
	IGN	A
A

10A
PARK LT   IGN

10A   AAW
BAT   TURN   IGN   TURN SW

accessory connector

A

C

D

Connect to a good chassis ground up under the dash.

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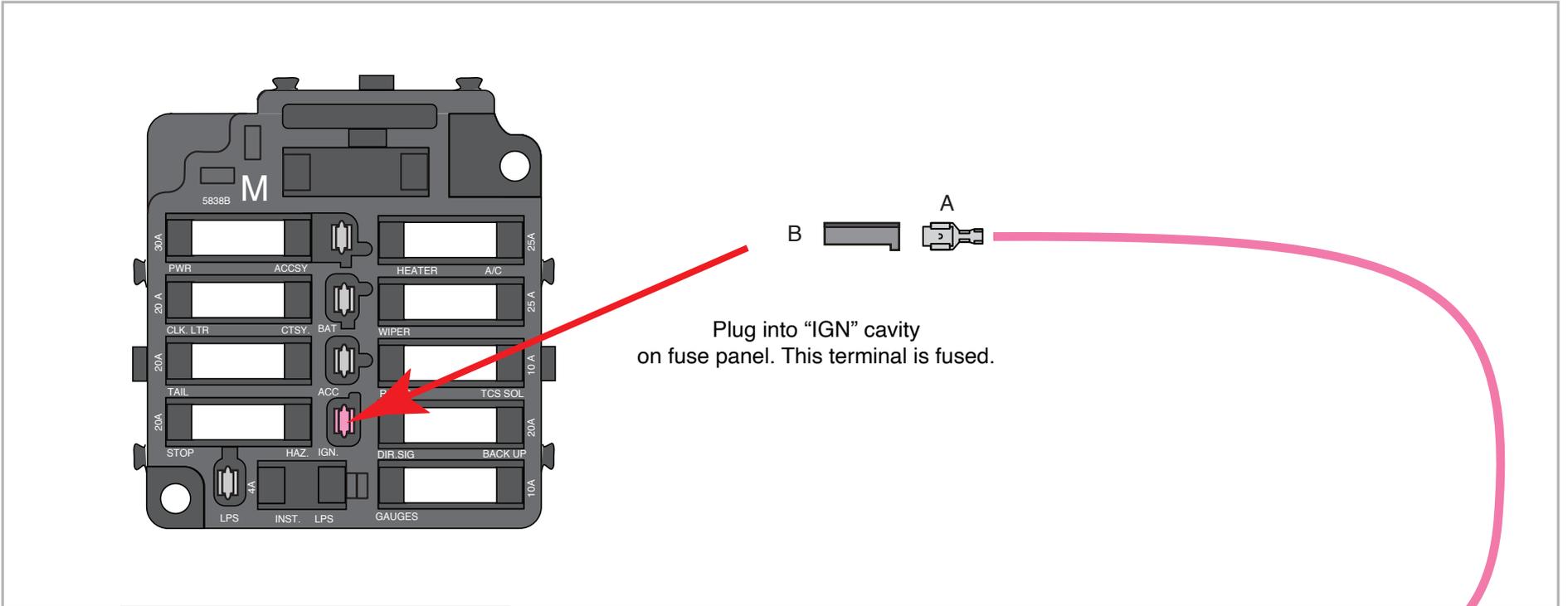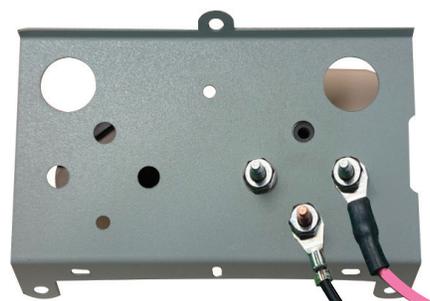www.americanautowire.com 856-933-0801

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92969249   Rev 5.0   08/27/2025

FIGURE 11: Original Fuse Panel with Glass Fuses:

M
5838B

30A PWR	ACCSY	HEATER	A/C 25A
20 A CLK. LTR	CTSY. BAT	WIPER	25 A
20A TAIL	ACC		10 A TCS SOL
20A STOP	HAZ. IGN.	DIR.SIG	BACK UP 20A
4A LPS	INST. LPS	GAUGES	10A

A

B

Plug into "IGN" cavity
on fuse panel. This terminal is fused.

C

D

Connect to a good
chassis ground up
under the dash.

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PART #

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DESCRIPTION:

1968-69 Camaro Console
Voltmeter Assembly

92969249   Rev 5.0   08/27/2025