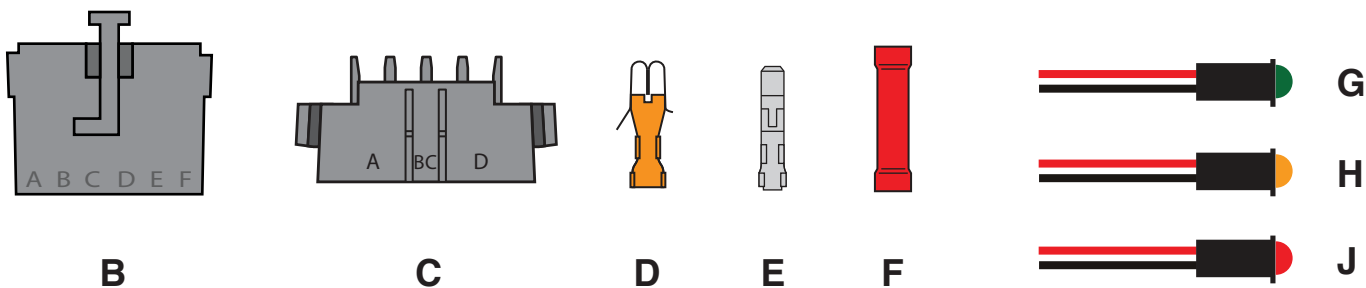


Universal Gauge Cluster Kit Instructions:

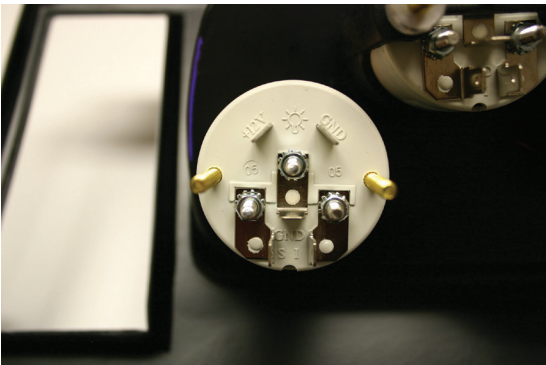
- 1. This kit is intended to be used for wiring aftermarket Autometer gauges mounted in a custom dash cluster housing into many GM, Ford and Mopar vehicles, then mating to the original factory dash wiring harness.
- 2. The cluster harnesss in this package (see page 3) will allow you to plug directly into many Autometer gauges with little, to no modifications, and includes provisions to build a completely disconnectable dash gauge harness. Connectors “B and C”, along with terminals “D and E” have been provided to create the disconnect between the new gauge harness and the original dash harness.
- 3. Also included are 4 mini LED lamps (an amber high beam indicator, green turn signal indicators, and a red brake warning indicator).

New Cluster Harness Installation Assembly Procedure:

- 1. Disconnect battery.
- 2. Remove original cluster from your vehicle.
- 3. Lay out the gauges in your panel. Drill the four 5/32” holes (or 3 if no brake warning lamp is required) needed to install the LED warning lamps as required.
- 4. Plug-in the new gauge panel harness connections. Note the different wire color coding for each of the connections. See the details that follow on pages 1 and 2.
- 5. Assemble your LED warning lamps using the provided lamp pigtails,“G, H and J”, along with the item “F” butt-splice connectors. See the details that follow on page 2.
- 6. Manufacturer-specific instructions for the application to your dash harness are shown on pages 4 - 6.

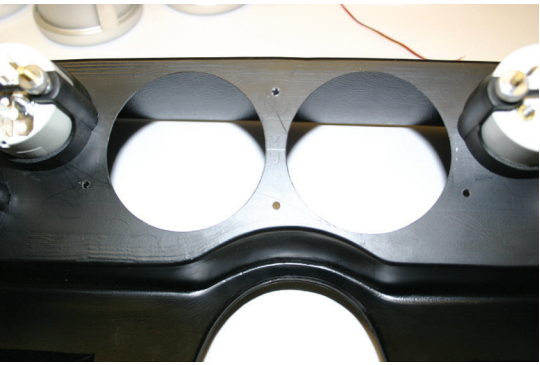


Assembling and wiring the cluster:



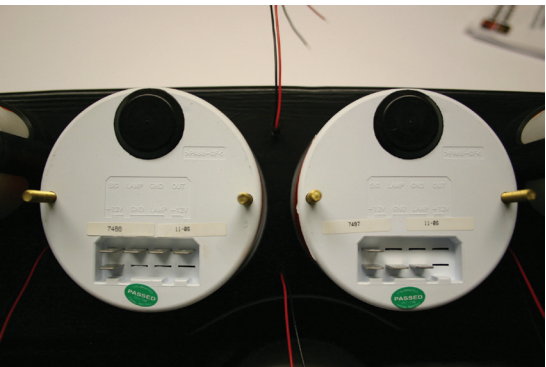
STEP 1: Install the blade terminals (not included in this kit but should be included with your gauges) onto the back of each of the 4 small gauges. Secure with lock washers and nuts. There are specific left, center, and right terminals. Assemble blades as shown in the photo above.

NOTE: The voltmeter uses the “GND and I” terminals only

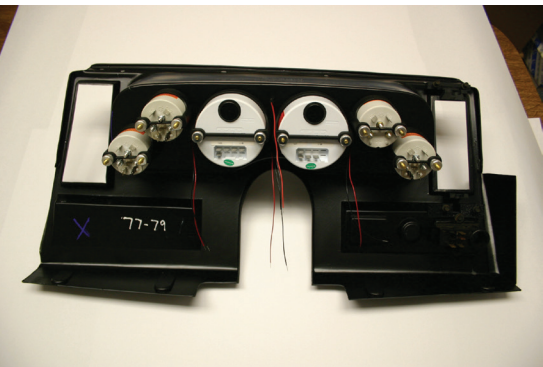


STEP 2: Determine the desired locations of your LED indicator lamps. Drill the 4 mounting holes for the indicator lamps using a 5/32” drill bit. Insert the LED’s into the front of the panel in their appropriate positions. **PLEASE NOTE:** If your car does NOT have a brake warning lamp, you will only need to drill 3 holes.

NOTE: The LED lamps have a tapered housing that will need to be fully seated into the drilled holes that you made in the dash cluster.



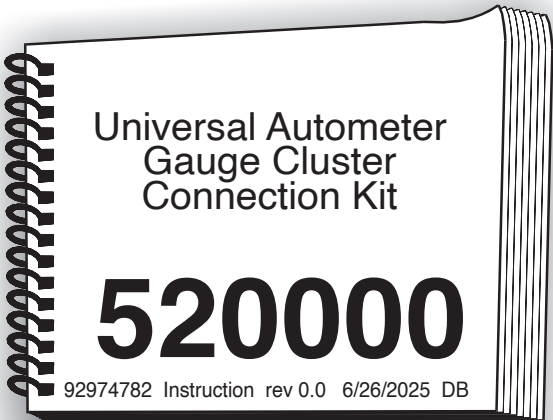
STEP 3: After installing your LED warning lamps, install the speedometer and tachometer into the new cluster. Take note of the terminal positions in each gauge and how they relate to the terminal position in the new harness. Functional descriptions are embossed into the housing on each gauge. In some instances, it may be necessary to move some of the wires in the 8-way speedometer and the 6-way tach connectors to match the function of the terminals on the two gauges. See page 2 for a detailed layout of some of the various terminal layout schemes.



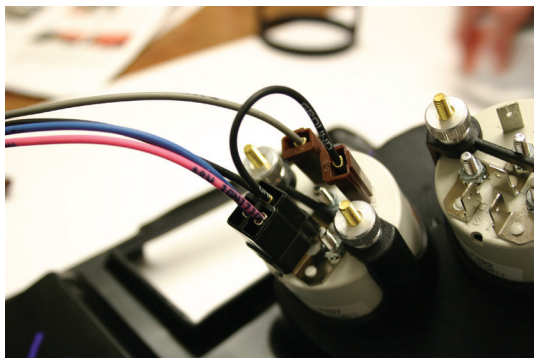
STEP 4: Install the 4 smaller gauges into the new cluster in your desired locations as shown above. The completed cluster assembly is now ready to wire.



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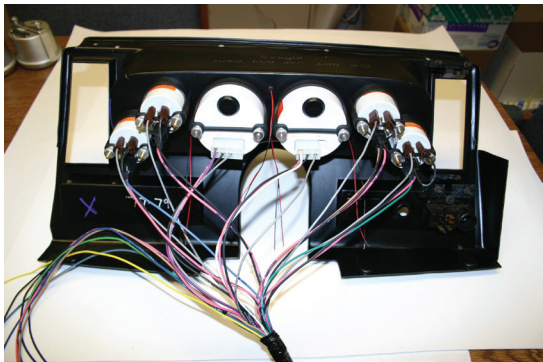


Assembling and wiring the cluster, continued:

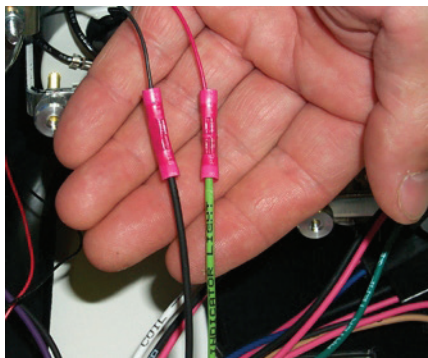
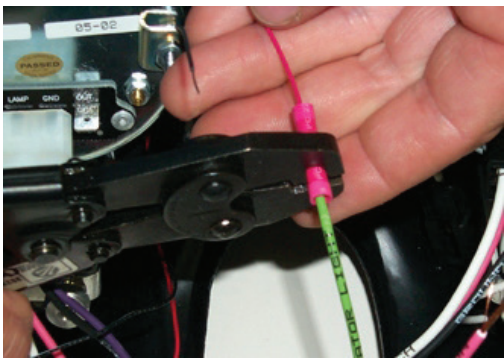


STEP 5: Begin plugging the gauge connections onto their corresponding gauges in the cluster, along with the lamp feed and ground wires in the order shown below. Note that the gray lamp wires plug onto the “12V” terminal, and the black wires plug onto the “GND” terminal.
(See harness details on page 3)

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



STEP 6: Once the harness connections to the gauges have been plugged-in, connections to the indicator lamps can be completed.



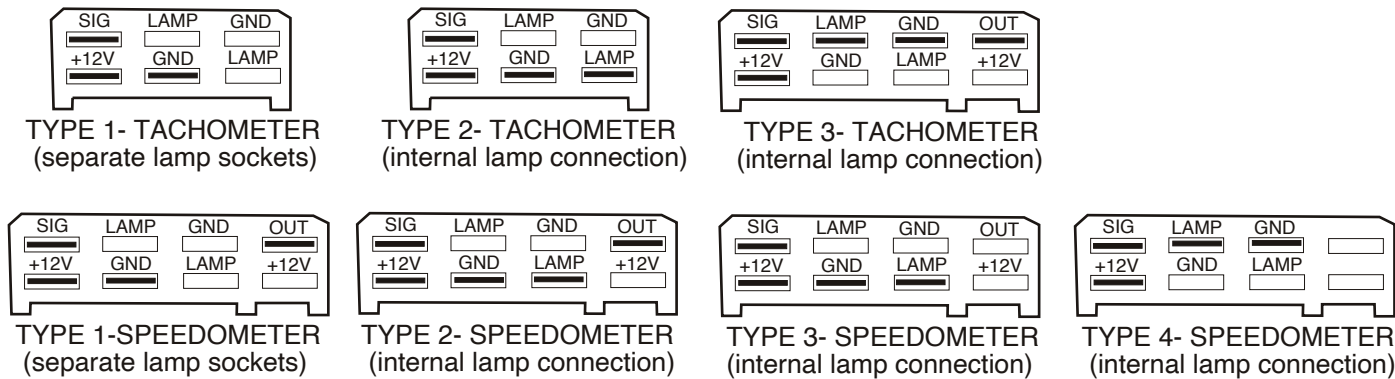
STEP 7: Select an LED lamp from the panel, attach the red lead to the appropriate signal wire from the new dash cluster harness, and attach the black lead to one the ground wires from the new dash cluster harness. **PLEASE NOTE:** If your car does NOT have a brake warning lamp, you will not be using the red LED. Also, the 2-way pink/tan extension connection on the cluster harness can be removed and discarded.

LED color	Function	Signal Wire Color	Ground Wire Color
Amber	Hi Beam	Lt. Green	Black
Green	LH Turn	Lt. Blue	Black
Green	RH Turn	Dk. Blue	Black
Red	Brake Warning	Pink	Tan

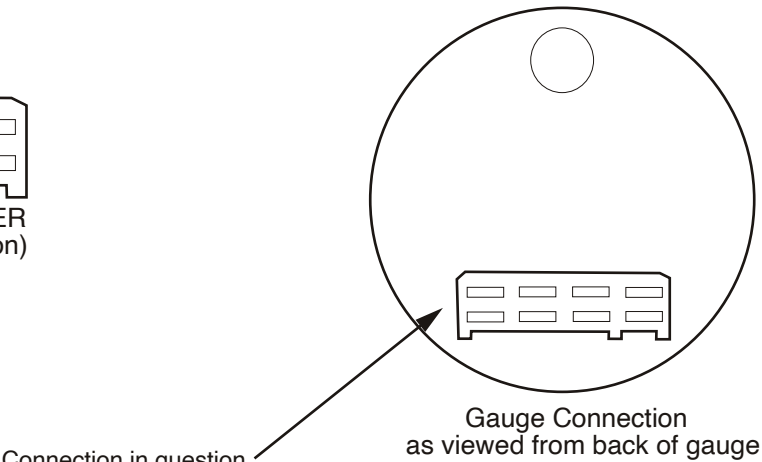
“Table A - Tach and Speedo Configurations”

AutoMeter gauges have had several changes to the terminal connections at the back of the Tachometer and the Speedometer gauges. Therefore, you will need to identify the connection type before proceeding. Depending on the connection type, it may be necessary to move terminals in the 6-way and 8-way plastic connectors that plug into the back of the gauges. Several known configurations, as viewed from the back of the gauge, are shown below. Determine which type of gauge you have, and match the new cluster wiring harness kit to the proper connection using the color code chart below.

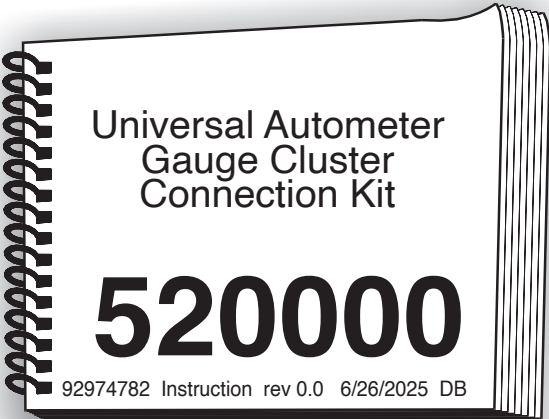
NOTE: We have set the tach to the “TYPE-2”, and the Speedo to the “Type-4” configurations, as they are the most popular.

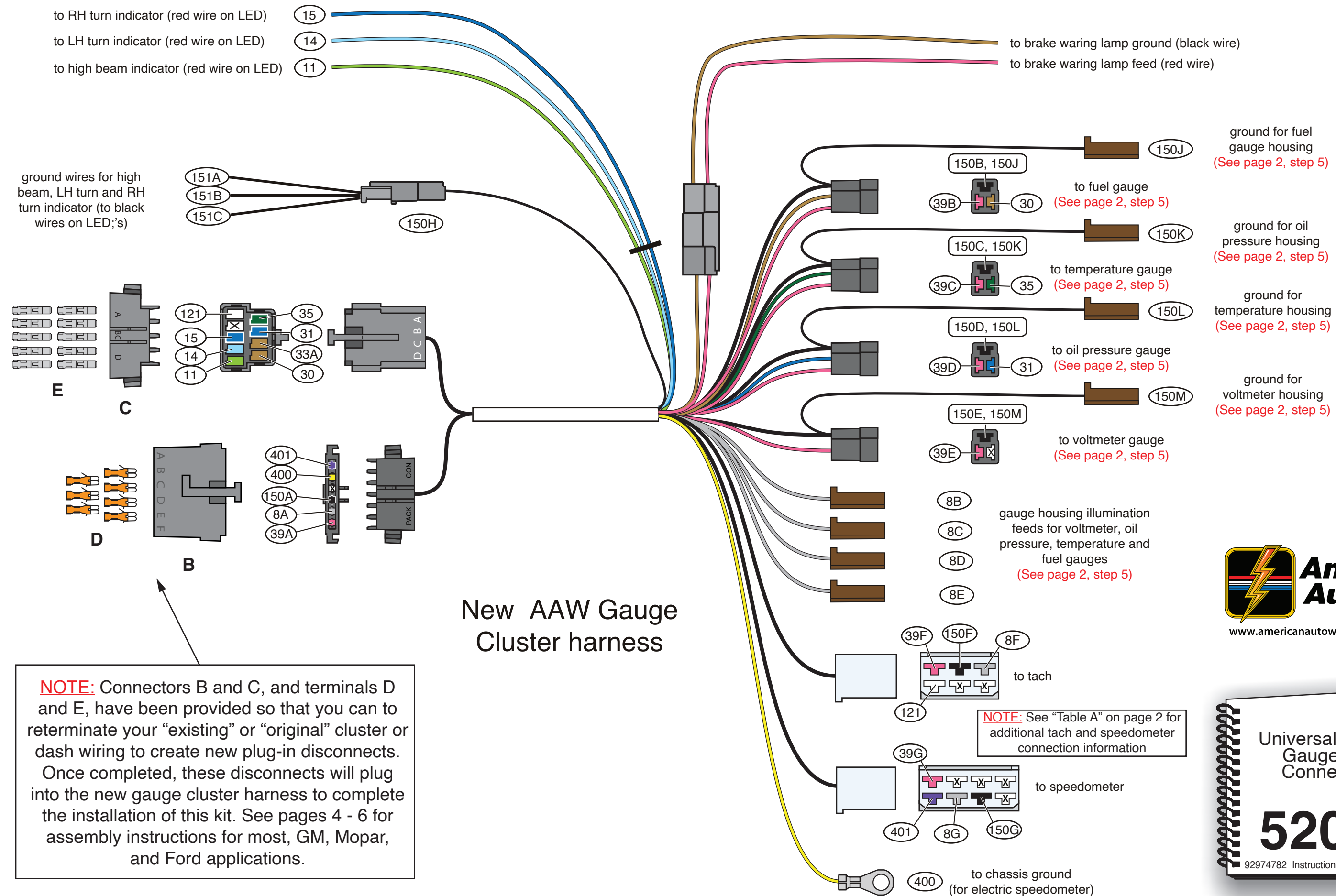


GAUGE	ID	FUNCTION	COLOR CODE DESCRIPTION
Tachometer	SIG	Coil to Tachometer signal	White (COIL -> TACH)
Tachometer	LAMP	Gauge lamp	Gray (DASH LIGHTS)
Tachometer	GND	Gauge ground	Black (GROUND)
Tachometer	OUT	Tachometer signal out	-- Currently not used --
Tachometer	+12V	Ignition power to gauge	Pink (12V Ignition)
Speedometer	SIG	Vehicle Speed Sender to Speedometer signal	Purple
Speedometer	LAMP	Gauge lamp	Gray (DASH LIGHTS)
Speedometer	GND	Gauge ground	Black (GROUND)
Speedometer	OUT	Speedometer signal out	-- Currently not used --
Speedometer	+12V	Ignition power to gauge	Pink (12V Ignition)

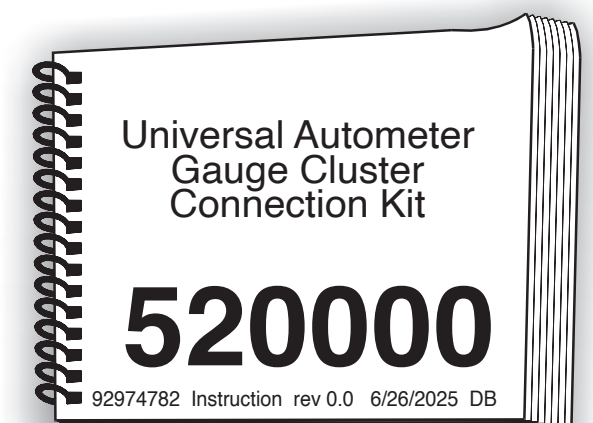


LEGEND
[Solid line] = Terminal is present in cavity
[Empty box] = Cavity is empty, no terminal

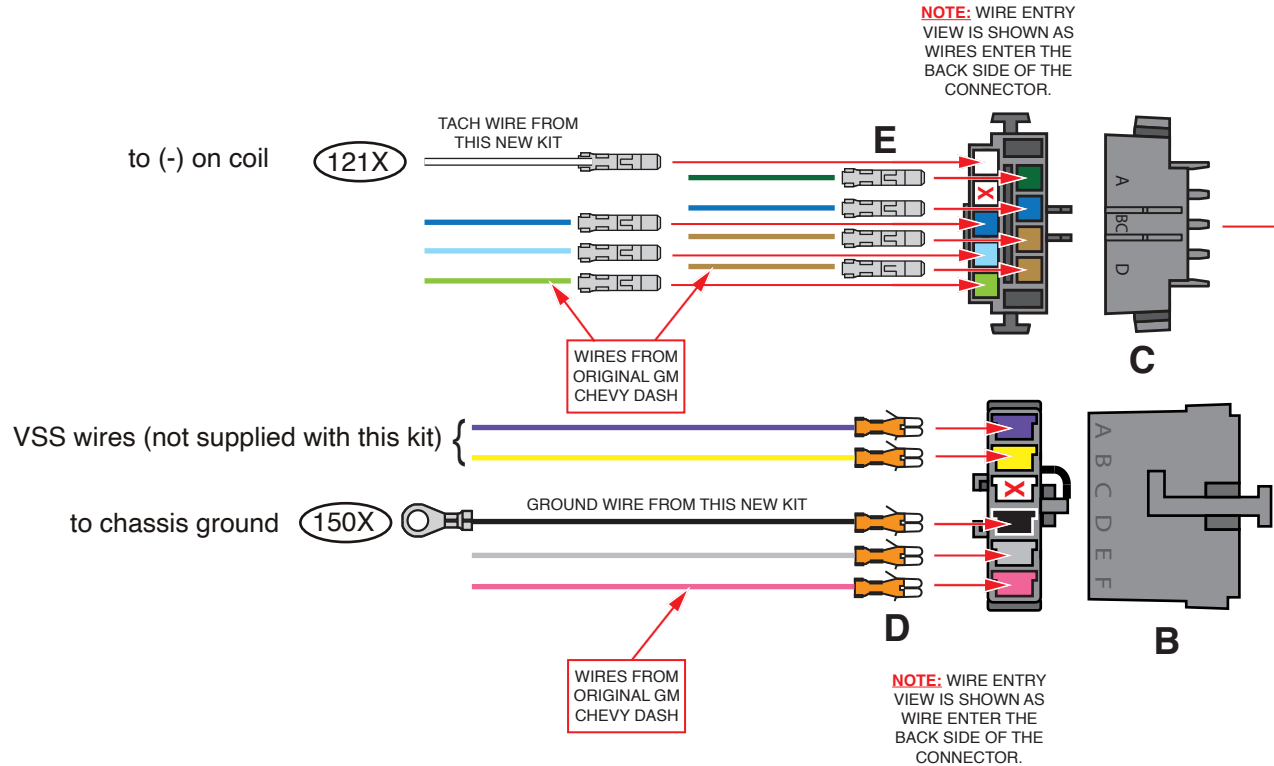




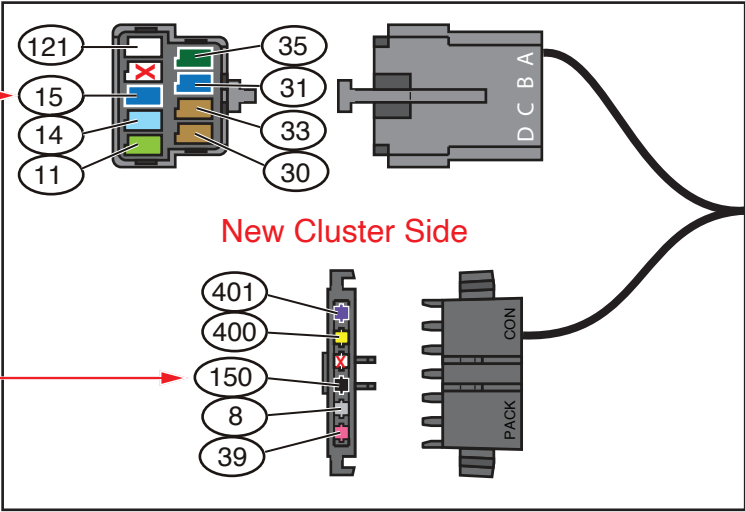
NOTE: Connectors B and C, and terminals D and E, have been provided so that you can to reterminate your "existing" or "original" cluster or dash wiring to create new plug-in disconnects. Once completed, these disconnects will plug into the new gauge cluster harness to complete the installation of this kit. See pages 4 - 6 for assembly instructions for most, GM, Mopar, and Ford applications.



Dash Side Connectors B and C, terminals D and E, and wires 121X and 150X:



CHEVROLET - GM



Chevy - GM Dash Side Interface Installation Assembly Procedure:

- 1. Choose the white "coil tach" wire (121X) and plug it into connector "C", cavity "J". After assembling the balance of connector "C", install this wire to the negative side of your coil, or "tach" connection on your ignition system.
- 2. Choose the black "ground" wire (150X) and plug it into connector "B", cavity "D". After assembling the balance of connector "B", install this wire to a chassis ground under the dash.
- 3. Assemble the disconnects by crimping terminals "D" or "E" onto each of your original dash wires, then plugging those wires into connectors "B" and "C" so that they mate with your new cluster harness, function to function.
- 4. For most GM applications, please refer to "Table B" at left for the proper wire functions for your application. In most instances, your harness will mate to the new cluster harness color for color. There may be some instances where the original GM wire colors differ. For instance, the 15 or 31 circuits can be either dark blue or dark blue with a white stripe, and the 30 or 33 circuits can be either tan, or tan with a black stripe. In the instances where the 15 and 31 circuits are both dark blue, and the 30 and 33 circuits are both tan, be sure to ID the proper wires when moving them to the new connector. For some late 70's-80's GM vehicles, the wire colors can may not match the information provided here. Consult a factory wiring diagram for your specific vehicle to asses the proper wire colors/functions in those instances. For all applications, terminals "D and E" and connectors "B and C" have been provided to make these connections.
- 5. Assemble your LED warning lamps using the provided LED lamp pigtails, "G, H and J", by splicing the lamp leads using item "F" butt-splice connectors. See details on page 2.

"Table B - Typical Chevy - GM"

New cluster wire kit to MOST stock Chevy - GM dash cluster wires

AAW Wire #	AAW Wire Color	AAW Wire Printing	Connector - Cavity AAW	Chevy-GM Wire Color
8	Gray	Dash Lights	B-E	Gray
11	Light Green	Hi Beam Indicator	C-E	Light Green
14	Light Blue	Left Dash Indicator	C-F	Light Blue
15	Dark Blue	Right Dash Indicator	C-G	Dark Blue or Dark Blue/White Stripe
30	Tan	Gas Gauge	C-D	Tan or Tan Black Stripe
31	Dark Blue	Oil Pressure Sender	C-B	Dark Blue or Dark Blue/White Stripe
33	Tan	Brake Light/Switch	C-C	Tan or Tan Black Stripe
35	Dark Green	Water temp Sender	C-A	Dark Green
39	Pink	12V Ignition	B-F	Pink
121	White	Coil Tach	C-J	White (supplied with new kit)
150	Black	Ground	B-D	Black (supplied with new kit)
400	Yellow	VSS Ground	B-B	Yellow or check gauge manufacturer
401	Purple	VSS Signal	B-A	Purple or check gauge manufacturer

Note: Remove the original cluster connector/connectors from the dash side wiring, and replace with AAW connectors "B" and "C". Crimp the appropriate terminals "D" and "E" onto your dash wires, and plug them into connectors "B" and "C" so that they mate with the proper function on the new AAW custer harness. Use "Table B" above to align the wires.



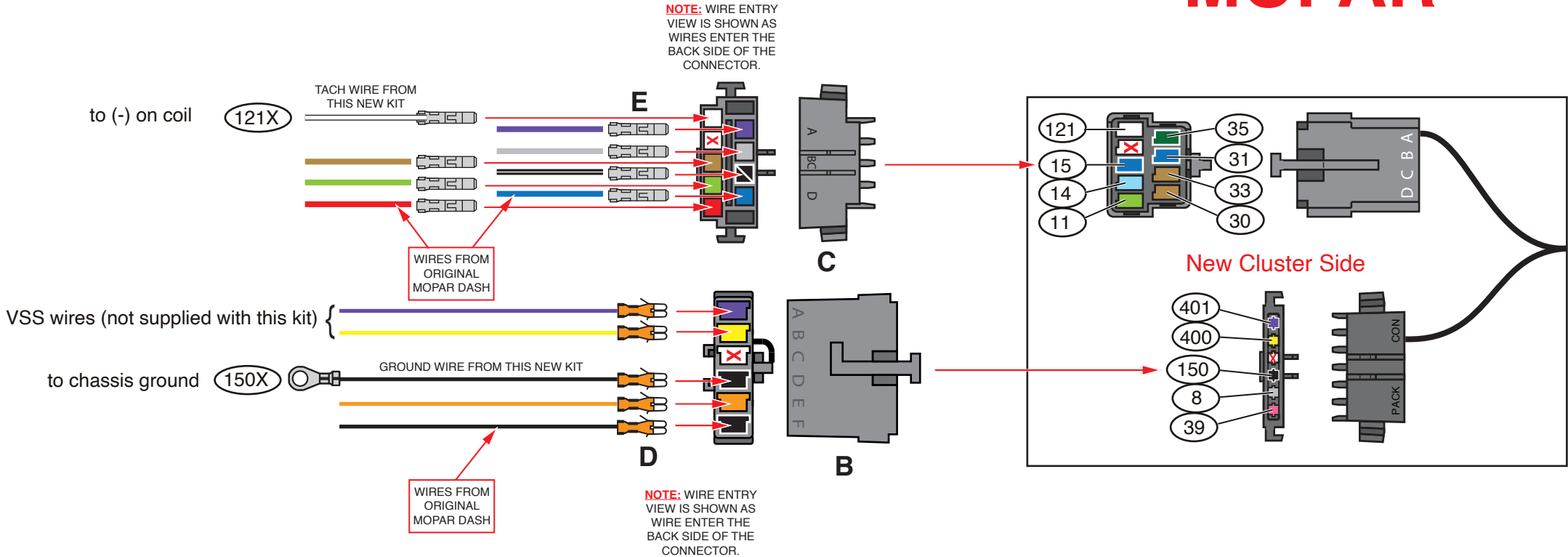
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Universal Autometer
Gauge Cluster
Connection Kit

520000

92974782 Instruction rev 0.0 6/26/2025 DB

Dash Side Connectors B and C, terminals D and E, and wires 121X and 150X:



“Table C - Typical Mopar”

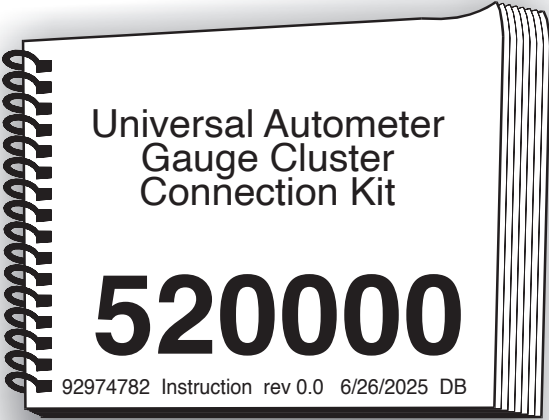
New cluster wire kit to MOST stock Mopar dash cluster wires

AAW Wire #	AAW Wire Color	AAW Wire Printing	Connector - Cavity AAW	Mopar Wire Color
8	Gray	Dash Lights	B-E	Orange
11	Light Green	Hi Beam Indicator	C-E	Red
14	Light Blue	Left Dash Indicator	C-F	Light Green
15	Dark Blue	Right Dash Indicator	C-G	Tan
30	Tan	Gas Gauge	C-D	Dark Blue
31	Dark Blue	Oil Pressure Sender	C-B	Gray
33	Tan	Brake Light/Switch	C-C	Black/White Stripe
35	Dark Green	Water temp Sender	C-A	Purple
39	Pink	12V Ignition	B-F	Black
121	White	Coil Tach	C-J	White (supplied with new kit)
150	Black	Ground	B-D	Black (supplied with new kit)
400	Yellow	VSS Ground	B-B	Yellow or check gauge manufacturer
401	Purple	VSS Signal	B-A	Purple or check gauge manufacturer

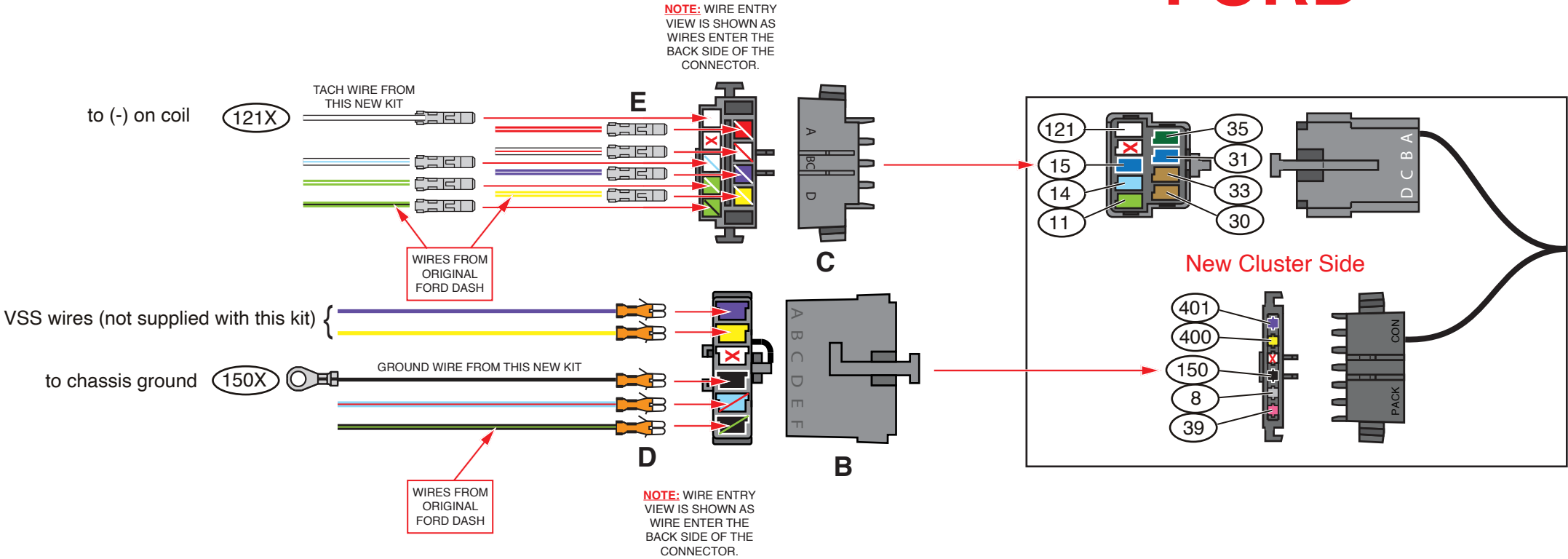
Note: Remove the original cluster connector/connectors from the dash side wiring, and replace iwith AAW connectors “B” and “C”. Crimp the appropriate terminals “D” and “E” onto your dash wires, and plug them into connectors “B” and “C” so that they mate with the proper function on the new AAW custer harness. Use “Table B” above to align the wires.

Mopar Dash Side Interface Installation Assembly Procedure:

1. Choose the white “coil tach” wire (121X) and plug it into connector “C”, cavity “J”. After assembling the balance of connector “C”, install this wire to the negative side of your coil, or “tach” connection on your ignition system.
2. Choose the black “ground” wire (150X) and plug it into connector “B”, cavity “D”. After assembling the balance of connector “B”, install this wire to a good known chassis ground under the dash.
3. Assemble the disconnects by crimping terminals “D” or “E” onto each of your original dash wires, then plugging those wires into connectors “B” and “C” so that they mate with your new cluster harness, function to function.
4. For most Mopar applications, please refer to “Table C” at left for the proper wire functions for your application so that they will mate with your new cluster harness, function to function. There may be some instances where the original Mopar wire colors differ. Consult a factory wiring diagram for your specific vehicle to asses the proper wire colors/functions in those instances. For all applications, terminals “D and E” and connectors “B and C” have been provided to make these connections.
5. Assemble your LED warning lamps using the provided LED lamp pigtails, “G, H and J”, by splicing the lamp leads using item “F” butt-splice connectors. See details on page 2.



Dash Side Connectors B and C, terminals D and E, and wires 121X and 150X:



FORD

Ford Dash Side Interface Installation Assembly Procedure:

- 1. Choose the white “coil tach” wire (121X) and plug it into connector “C”, cavity “J”. After assembling the balance of connector “C”, install this wire to the negative side of your coil, or “tach” connection on your ignition system.
- 2. Choose the black “ground” wire (150X) and plug it into connector “B”, cavity “D”. After assembling the balance of connector “B”, install this wire to a good known chassis ground under the dash.
- 3. Assemble the disconnects by crimping terminals “D” or “E” onto each of your original dash wires, then plugging those wires into connectors “B” and “C” so that they mate with your new cluster harness, function to function.
- 4. For most Ford applications, please refer to “Table D” at left for the proper wire functions for your application so that they will mate with your new cluster harness, function to function. There may be some instances where the original Ford wire colors differ. Consult a factory wiring diagram for your specific vehicle to asses the proper wire colors/functions in those instances. For all applications, terminals “D and E” and connectors “B and C” have been provided to make these connections.
- 5. Assemble your LED warning lamps using the provided LED lamp pigtails, “G, H and J”, by splicing the lamp leads using item “F” butt-splice connectors. See details on page 2.

“Table D - Typical Ford”

New cluster wire kit to MOST stock FORD dash cluster wires

AAW Wire #	AAW Wire Color	AAW Wire Printing	Connector - Cavity AAW	Ford Wire Color
8	Gray	Dash Lights	B-E	LightBlue/Red Stripe
11	Light Green	Hi Beam Indicator	C-E	Light Green/Black Stripe
14	Light Blue	Left Dash Indicator	C-F	Light Green/White Stripe
15	Dark Blue	Right Dash Indicator	C-G	White/Light Blue Stripe
30	Tan	Gas Gauge	C-D	Yellow/White Stripe
31	Dark Blue	Oil Pressure Sender	C-B	White/Red Stripe
33	Tan	Brake Light/Switch	C-C	Purple/White Stripe
35	Dark Green	Water temp Sender	C-A	Red/White Stripe
39	Pink	12V Ignition	B-F	Black/Light Green Stripe
121	White	Coil Tach	C-J	White (supplied with new kit)
150	Black	Ground	B-D	Black (supplied with new kit)
400	Yellow	VSS Ground	B-B	Yellow or check gauge manufacturer
401	Purple	VSS Signal	B-A	Purple or check gauge manufacturer

Note: Remove the original cluster connector/connectors from the dash side wiring, and replace it/them with AAW connectors “B” and “C”. Crimp the appropriate terminals “D” and “E” onto your dash wires, and plug them into connectors “B” and “C” so that they mate with the proper function on the new AAW custer harness. Use “Table C” above to align the wires.

