

*Covan's Classic*

AUTOMOTIVE SPECIALTIES

(770) 667-7684



**1968 Nova**



**1969-76 Nova**

*Covan's Classic*

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(770) 667-7684



**1977-79 Nova**

## **1968-1979 Nova**

Gauge Cluster Kit  
Installation Instructions  
(500628)



STEP 1: There are 4 small gauges. This is a photo of the bare gauge. Remove the 3 nuts and lock washers.

STEP 2: Install the blade terminals to the back of each of the 4 small gauges. Secure with lockwasher and nut. There are specific left, center, and right hand terminals. Install as shown in photo.

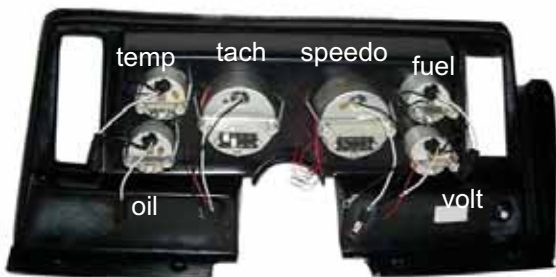
**NOTE:** Voltmeter uses the 'GRD' & 'I' terminal locations only.



STEP 2: Plug in appropriate lamp socket pigtail into the 4 smaller gauges.



STEP 3: Install appropriate lamp socket pigtail into the speedometer & tachometer.



STEP 4: Insert gauges into housing, in locations shown.



1968 Nova headlight and wiper switch grounding.

STEP 5: The headlight and wiper switches must be grounded. The grounding kit supplied with the kit supplies several grounding wires and terminals to accomplish proper grounding. The grounding for the 1968 wiper switch differs from the 1969-74. The connection for the 1968 Nova is shown here. Connect as shown by routing the long remaining end to a good chassis ground with the supplied ring terminal.



1969-74 Nova headlight and wiper switch grounding.

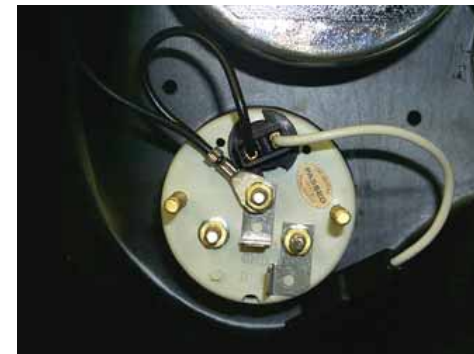
This photo shows the 1969-74 configuration. Connect as shown by routing the long remaining end to a good chassis ground with the supplied ring terminal.

STEP 6: Install mounting clips on tachometer & speedometer.

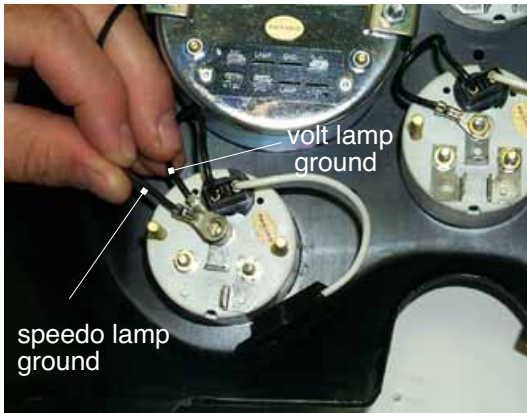


STEP 7: Drill 4 mounting holes for LED's, using 5/32" drill bit, at desired locations. Insert LED's in hole from front of panel.

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

**NOTE:** The speedometer lamp ground will connect on the volt meter ground stud (as shown), and the tachometer lamp ground will connect to the fuel ground stud (not shown).



STEP 9: Install the mounting brackets on all of the small gauges, as shown.



STEP 10: Plug in gauge connections using supplied connectors. Plug in connectors in the order shown below. Typical plug-in shown in picture.

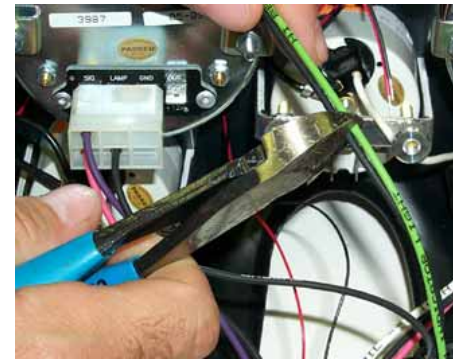
1. FUEL pink / black / tan
2. TACH pink / black / white
3. TEMP pink / black / dk green
4. OIL pink / black / dk blue
5. VOLT pink / black
6. SPEEDO pink / black / purple



STEP 11: Plug each lamp power wire (white) into the mating connectors on each grey wire (DASH LIGHTS) on the new harness. As shown.

STEP 12: 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

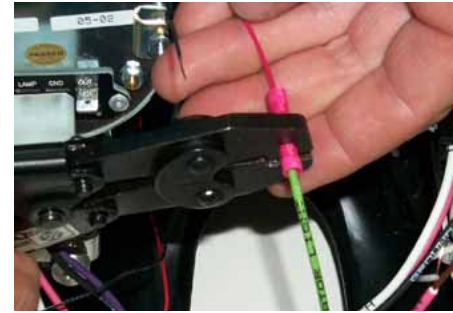


STEP 13: Install butt connectors, as shown, matching the wire functions noted above with the proper LED. Trim the wires from the harness to the desired length before crimping.

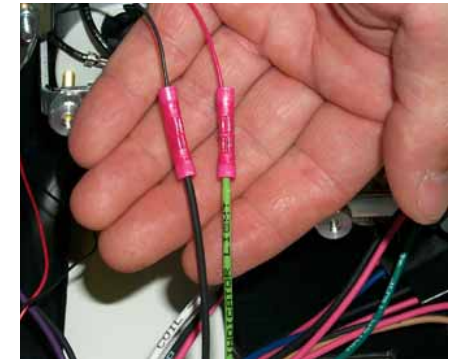
Match the black wire from each LED panel lamp with a black ground wire from the harness for all LED lamps except the red brake warning LED.

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.



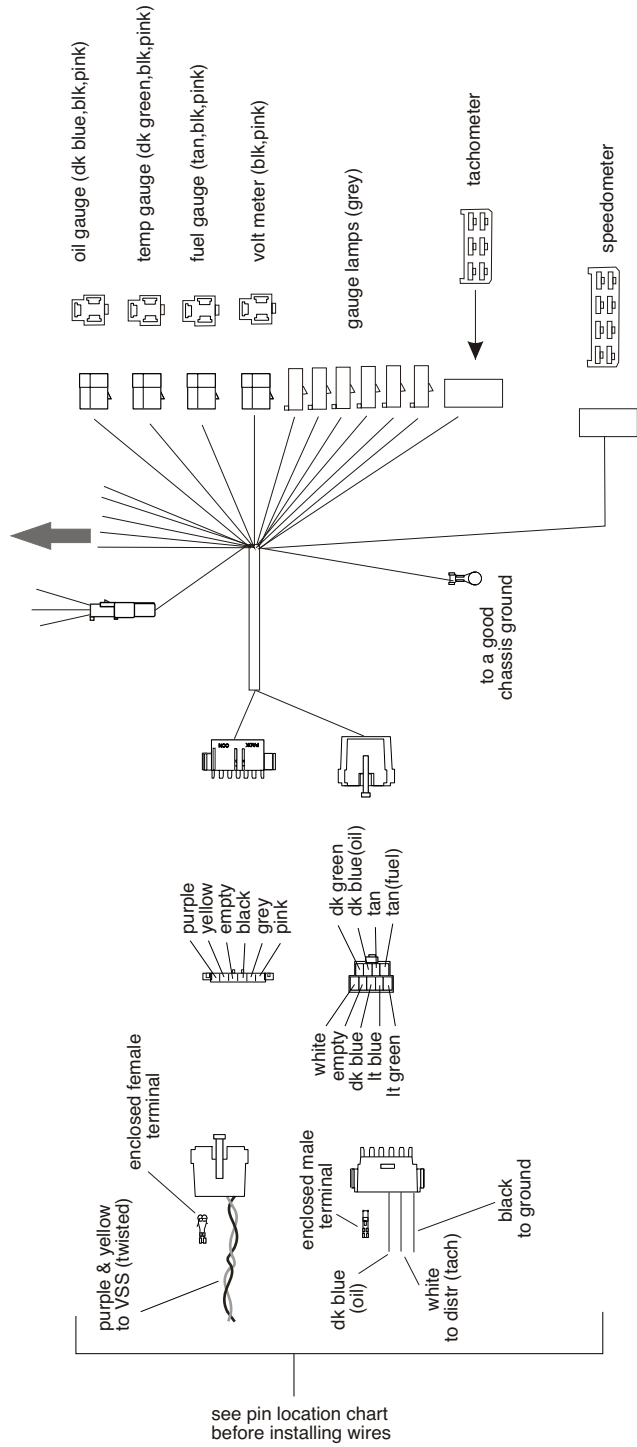
**STEP 14:**

Connect your existing instrument cluster wires to the new wiring kit using the supplied connectors and terminals and pin location chart. Be sure to maintain color continuity with the gauge side wiring when plugging the wires into our connectors.

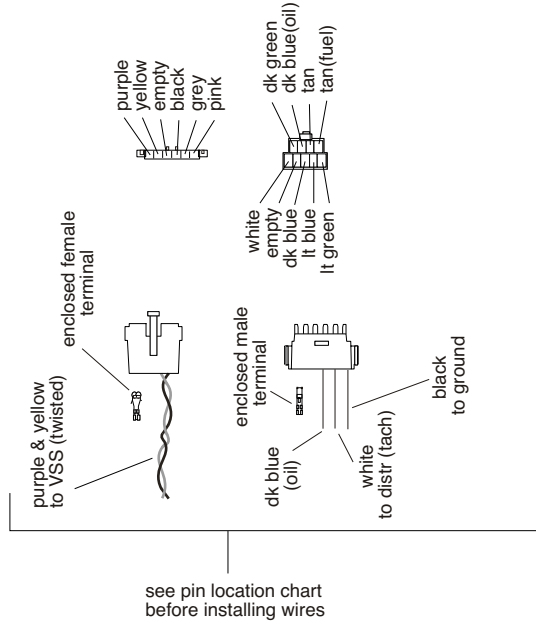
Using the enclosed PIN LOCATION chart, apply the appropriate terminal to your existing wires and plug into the supplied connector. There are empty cavities. Note: Empty cavities can be used for remaining wires from the original cluster connectors which are not used in this application. This will protect the wires.

Route the long purple & yellow wires to the transmission Vehicle Speed Sensor (VSS). Be sure to twist the wires as shown! This is necessary to prevent signal interference.

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 92965719 (500628) instruction sheet rev. 5.1 3/23/07

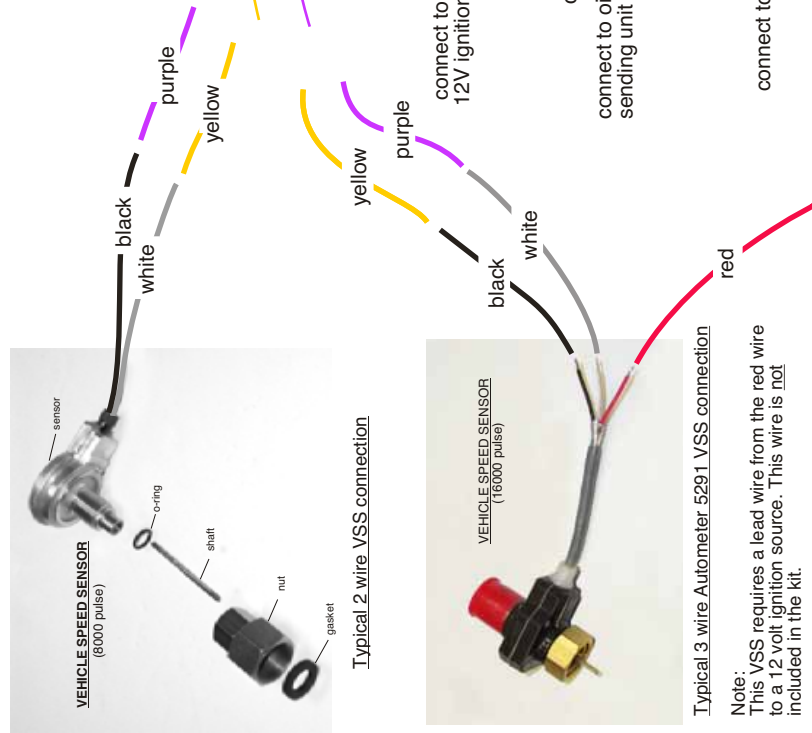


**LONG BARE LEADS**  
 lt green: connect to hi beam LED red lead  
 black: connect to hi beam LED black lead  
 lt blue: connect to LH turn LED red lead  
 black: connect to LH turn LED black lead  
 dk blue: connect to RH turn LED red lead  
 black: connect to RH turn LED black lead  
 tan: connect to the brake LED black lead  
 pink: connect to the brake LED red lead



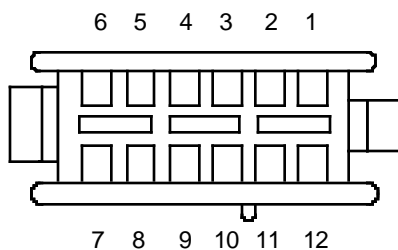
**DASH SIDE CONNECTIONS**

Use the included PIN LOCATION CHART on the following page to identify the wires which will be used for this connection process. Be sure to maintain color continuity (and wire function) with the mating connectors from the previous page. Using the information below, connect the necessary wires to the connectors shown. If you are using the wires from your existing instrument cluster connector, remove the existing terminals and terminate using the new terminals supplied in the kit. Plug these wires into the new cluster connector maintaining color continuity with the mating connectors from the previous page. Extra wires are provided in the kit if it is necessary to complete the cluster connections. Route the long purple & yellow wires to the transmission Vehicle Speed Sensor (VSS). Be sure to twist the wires as shown! This is necessary to prevent signal interference.

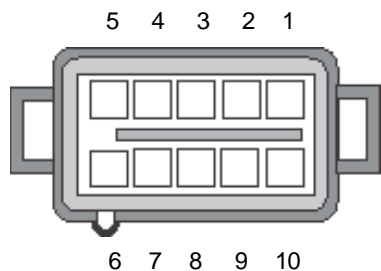


Note:  
 This VSS requires a lead wire from the red wire to a 12 volt ignition source. This wire is not included in the kit.

**Printed Circuit  
Cluster Connector  
Pin Locations  
1968-1976**



**Console Gauge  
Cluster Connector  
Pin Locations  
1968-1976**

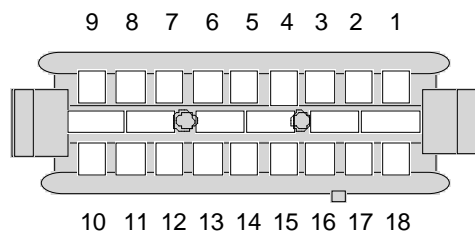


**1968-76 NOVA DASH PRINTED CIRCUIT CONNECTOR PIN LOCATIONS**

Circuit No.	Function	Wire Color	1968-1972 factory gauges Pin Loc	1972 warning lights Pin Loc	1973-1976 factory gauges Pin Loc	1976 warning lights Pin Loc	1968-72 console gauge Pin Loc	1973-75 console gauge Pin Loc	1976 console gauge Pin Loc
30	Fuel tank sender	tan	see note 1	1	see note 1	1	5	5	5
39	12 Volt fused power	pink	2	2	2	2	7	7	7
25	Alternator light	brown	see note 2	3	see note 2	3	see note 2	see note 2	see note 2
33	Brake Warning	tan	4	4	4	4			
14	Left Turn Indicator	light blue	5	5	5	5			
31	Oil pressure sender	dark blue	see note 1	6	see note 1	6	see note 1	see note 1	see note 1
15	Right Turn Indicator	dark blue	8	8	8	8			
11	High Beam Indicator	light green	9	9	9	9			
8	Instrument Lights	gray	10	10	10	10	6	6	6
35	Coolant temperature sender	dark green	see note 1	11	see note 1	11	4	4	4
105	Ammeter gauge	black	see note 1		see note 1		9	9	see note 1
106	Ammeter gauge	black/white	see note 1		see note 1		8	8	see note 1
121	Tachometer	brown	1		1				
952	Low Fuel Indicator	yellow	11				3	see note 7	see note 7
150	Ground	black					2	2	2
Notes:									
1	1968-1975 factory console gauge cars were equipped with the console gauge package consisting of fuel, temperature, ammeter electrical gauges and a mechanical oil pressure gauge.								
	1976 factory console gauge cars replaced the ammeter with a voltmeter								
2	Factory gauge cars were not equipped with an alternator charge light.								
3	1968-1971 cars require the grounding wires for the headlight and wiper switches.								
4	1972-1976 cars ground both the headlight and wiper switches directly through the switch connector.								
5	1973-1976 cars have a wiper switch light.								
6	1972-1976 cars have a seat belt warning light mounted directly into the dash unit.								
7	1973-76 factory console gauge cars did not use a low fuel indicator light.								



**Printed Circuit  
Cluster Connector  
Pin Locations  
1977-1979**



**1977-79 NOVA DASH PRINTED CIRCUIT CONNECTOR PIN LOCATIONS**

Circuit NO.	Function	Wire Color	1977- 1979	
			factory gauges Pin Loc	warning lights Pin Loc
8	Instrument Lights	gray	8, 18	2
11	High Beam Indicator	light green	3	9
14	Left Turn Indicator	light blue	15	8
15	Right Turn Indicator	dark blue	2	18
25	Alternator light	brown	see note 2	3
30	Fuel tank sender	tan	11	14
31	Oil pressure sender	dark blue	16	4
33	Brake Warning	tan / white stripe	4	11
35	Coolant temperature sender	dark green	17	16
39	12 Volt fused power	pink	5, 12	12
121	Tachometer	brown	6	
150	Ground	black	1, 7	1, 6, 10, 13
237	Warning Buzzer lead	pink / white stripe	14	5

**Notes:**

- 1 1977-1979 factory gauges cars were equipped with a gauge package consisting of tachometer, fuel, temperature, voltmeter and oil pressure gauges.
- 2 Factory gauge cars were not equipped with an alternator charge light.
- 3 1977-1979 cars ground both the headlight and wiper switches directly through the switch connector.
- 4 1977-1979 cars have a wiper switch light.
- 5 1977-1979 cars have a seat belt warning light mounted directly into the dash unit.

