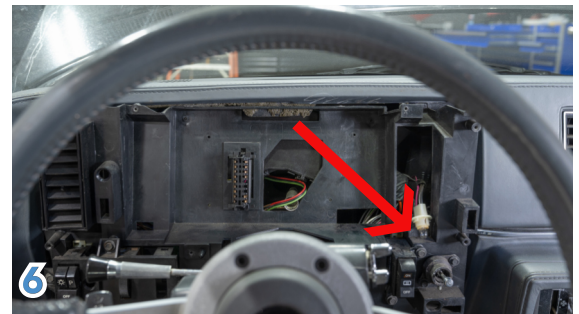


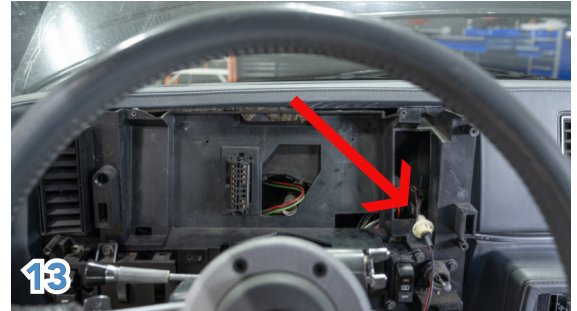
DASHBOARD GAUGE CLUSTER PANEL FOR 1984-1987 BUICK REGAL / GRAND NATIONAL

1. Carefully remove the factory gauge cluster trim by gently releasing the spring clips with a panel pop tool.
2. Loosen the (6) 7mm bolts that hold the gauge cluster surround and carefully remove.
3. Using a 7mm socket, remove the 4 bolts holding the factory gauge cluster.
4. Under the hood, disconnect the speedometer cable to allow the cluster to pull away from the dash.
5. Pull the cluster away from the dash and disconnect the electrical connections using a 7/32" socket and pick tool.
6. Remove the Check Engine Light socket from the cluster.
7. Disconnect the speedometer cable from the back of the cluster by releasing the spring clip.
8. Reinstall the gauge cluster surround using a 7mm socket.
9. The New GlowShift Gauges Cluster comes with panels pre-installed, including the standard headlight switch, passenger mirror adjustment, and rear defrost. If your vehicle has the Sentinel headlight option or is missing the passenger mirror adjustment, rear defrost, or both, we offer a panel set that will allow you to swap out the pre-cut panels to fit your options.
10. Remove the factory rubber filler panel on the bottom of the factory gauge cluster trim and install it onto the new gauge cluster.
11. There are 3 holes on the right side of the gauge cluster, allowing you to swap the factory emblem over to the new cluster.
12. Insert the turn signals, check engine light, high beam indicator, and battery light into the openings in the cluster and secure with the included nut.
13. Splice the included 194 bulb adapter to the check engine light and plug into the check engine light socket.



- 14.** Splice the included turn signal, high beam indicator, and battery light wires into the factory wiring using splice connectors.

- Most of the wire connections needed to install the indicator lights and the gauges can be spliced directly into the factory gauge cluster wire harness. Using the reference charts below will allow you to locate the correct wires to connect to:
- Page 3 - Factory Analog Gauges
- Page 4 - Factory Digital Gauges



- 15.** Install each gauge into the replacement cluster using the mounting brackets, washers, and nuts. Be sure not to overtighten the nuts as it will damage the gauges.

- 16.** With the factory cluster removed the alternator will not charge. One of two steps have to be performed in order for the charging system to work properly:

- Factory Analog Gauges - Wire a 470 ohm resistor between the #1 and #3 pins at the dash cluster.
- Factory Digital Gauges - Wire a 470 ohm resistor between the #2 and #14 pins at the dash cluster.
- Install an alternator bypass harness available at GlowShift.com



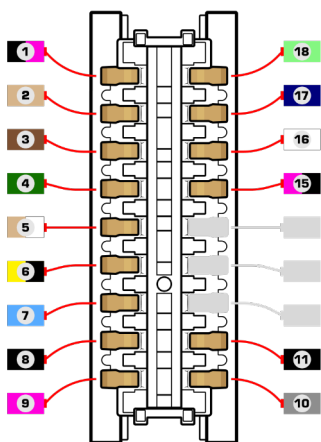
- 17.** Once all of the gauges have been installed, insert the wiring harnesses into each designated gauge and continue the gauge installation according to the instructions included with the gauges.

Note: a speedometer cable adapter or GPS adapter will be needed for the speedometer to function properly.

- 18.** Feed the opposite end of the wiring harness down through the dash and insert the new cluster into the dash and secure using the supplied spring clips

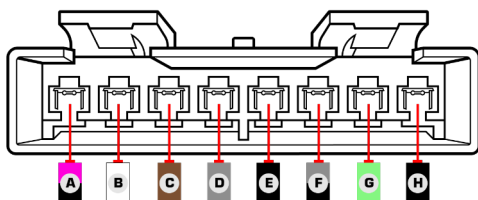


ANALOG CLUSTER CONNECTOR



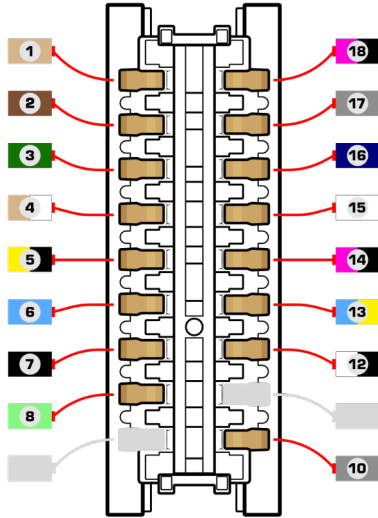
#	WIRE COLOR	PIN	DESCRIPTION
1	Pink	A	GAGES Fuse Pos Feed
2	Brown	B	Oil Pressure Indicator
3	Brown	C	ALT Indicator
4	Green	D	Coolant Temp Gauge
5	Brown	E	BRAKES Warning Lamp +
6	Yellow	F	Fasten Belts +
7	Blue	G	LH Turn Indicator
8	Black	H	Gnd
9	Pink	J	Fuel Level Gauge
10	Grey	K	Dash Light Dimmer feed
11	Black	L	Ground (Fasten Belts NEG)
12	-----	---	Not Used
13	-----	---	Not Used
14	-----	---	Not Used
15	Pink	M	GAGES Fuse Pos Feed
16	White	N	Cruise Indicator
17	Blue	P	RH Turn Indicator
18	Green	R	HI Beam Indicator

TACH AND BOOST GAUGE CONNECTOR FOR ANALOG CLUSTER



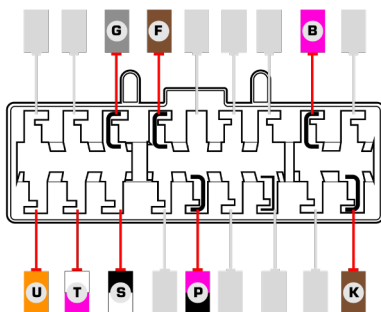
PIN	WIRE COLOR	DESCRIPTION
A	Pink	GAGES Fuse Feed +
B	White	TACH Signal
C	Brown	Parking Lights
D	Grey	Dimmer
E	Black	Electrical Ground
F	Grey	5V MAP Feed +
G	Green	MAP Signal
H	Black	MAP Ground

DIGITAL CLUSTER CONNECTOR 1



#	WIRE COLOR	PIN	DESCRIPTION
1	Tan	A	Oil Pressure Indicator
2	Brown	B	ALT Indicator
3	Green	C	Water Temp Indicator
4	Tan	D	BRAKES Warning Lamp +
5	Yellow	E	Fasten Belts POS
6	Blue	F	LH Turn Indicator
7	Black	G	Common LH/RH/Belts/Hi-Beam
8	Light Green	H	HI Beam Indicator Lamp
9	-----	---	Not Used
10	Grey	J	Electrical Ground
11	-----	K	Not Used
12	Black		LO Boost Indicator
13	Blue/Yellow		HI Boost Indicator
14	Pink	L	Switched 12V
15	White	M	Cruise Indicator
16	Dark Blue	N	RH Turn Indicator
17	Grey	P	Dash Light Dimmer Feed
18	Pink	R	Pos. 12V Dash Lights

DIGITAL CLUSTER CONNECTOR 2



PIN	WIRE COLOR	DESCRIPTION	PIN	WIRE COLOR	DESCRIPTION
A			K	Brown	VSS Signal
B	Pink	Fuel Level Gauge	L		
C			M		
D			N		
E			P	Pink	Pos. 12V Switched
F	Brown	Dim Enable	R		
G	Grey	Dash Lt. Dimmer	S	Black	Electrical Ground
H			T	Pink	
J			U	Orange	MEM 12V HOT



INSTALLATION INSTRUCTIONS

856.768.8300 • TechSupport@GlowShiftGauges.com

ONE YEAR NON-TRANSFERRABLE LIMITED WARRANTY & DISCLAIMER

GlowShift Gauges, LLC ("GlowShift") warrants to the original retail consumer purchaser, and not any other purchaser or subsequent owner, that this Product will be free from defects in material or workmanship for a period of one (1) year from the purchase date.

For a period of one (1) year from the date of purchase, at no charge to the Purchaser, GlowShift will repair or replace this Product if it is determined by GlowShift to be defective. After the warranty period, the Purchaser must pay all charges for parts and labor.

Coverage under this warranty is only valid within the United States, including its territories, as well as in certain other countries. Purchasers should check our website, www.GlowShift.com, to determine the warranty coverage in the countries in which they are located.

GlowShift does not warrant the installation of the Product, which is the sole responsibility of the Purchaser. Installation should be done by licensed professionals. Improper installation may cause damage to the Product and any vehicle in which it is installed, and may cause burns and electrical injury to individuals. GlowShift's warranty does not cover any expenses incurred in removing Products that are defective or reinstalling replacement Products in their place.

During the warranty period, to have the Product repaired or replaced, the Purchaser must return the Product, freight prepaid by the Purchaser, to GlowShift (but for customers in the contiguous United States, GlowShift will pay the shipping charges if any Product fails during the first sixty (60) days after purchase). The Product must be returned in its original carton or in a similar package affording an equal degree of protection. GlowShift will return the repaired or replaced Product, freight prepaid, to the Purchaser. GlowShift does not provide Purchasers with temporary replacement units during the warranty period or at any other time.

This limited warranty is non-transferrable and will automatically terminate if the original retail consumer purchaser resells the Product or transfers the vehicle in which the Product is installed. An "original retail consumer purchaser" is a person who originally purchases the Product, or a gift recipient of a new Product that is in its original packaging and unopened.

This limited warranty is subject to all of the following terms and conditions:

TERMS & CONDITIONS

1. **NOTIFICATION OF CLAIMS; WARRANTY SERVICE:** If Purchaser believes that a Product is defective in material or workmanship, written notice with an explanation of the claim shall be given promptly by Purchaser to GlowShift. All warranty claims must be made within the warranty period, and any Products returned to GlowShift must be shipped in accordance with GlowShift's procedures (including use of RMA numbers supplied by GlowShift after notification). The repair or replacement of any Product or part thereof shall not extend the original warranty period. The specific warranty on the repaired part only (not including gauge sensors) shall be in effect for a period of ninety (90) days following the repair or replacement of that part, or the remaining period of the Product warranty, whichever is greater. GlowShift does not provide a warranty on replacement gauge sensors.

2. **EXCLUSIVE REMEDY; ACCEPTANCE:** Purchaser's exclusive remedy and GlowShift's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the repair or replacement fails to remedy the defect. Purchaser's failure to make a claim as provided in paragraph 1 above or continued use of the Product shall constitute an unqualified acceptance of such Product and a waiver by Purchaser of all claims thereto.

3. **EXCEPTIONS TO LIMITED WARRANTY:** GlowShift shall have no obligation to Purchaser with respect to any Product that is subjected to any of the following: abuse, improper use, negligence, accident, modification, failure to follow the operating procedures outlined in the user's manual, failure to follow the maintenance procedures in the service manual for the Product, attempted repair by non-qualified personnel, operation of the Product outside of the published environmental and electrical parameters, or if the Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. GlowShift excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS. GlowShift also excludes from warranty coverage any consumable items such as fuses and batteries.

All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product.

4. **PROOF OF PURCHASE; REGISTRATION:** The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility. Registration of any Product or of this limited warranty is voluntary, and failure to register will not diminish any rights available under this warranty.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, GLOWSHIFT HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2312(3) OF THE UNIFORM COMMERCIAL CODE OR IN ANY OTHER STATE STATUTE.

LIMITATION OF LIABILITY

THE LIABILITY OF GLOWSHIFT, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT FOR WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL GLOWSHIFT BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

GOVERNING LAW: This non-transferrable limited warranty shall be governed by the law of the State of New Jersey, U.S.A., and the United States of America, excluding their conflicts of laws principles. The courts of Camden County, New Jersey, shall have the exclusive jurisdiction over any legal action with respect to this warranty.

This limited warranty gives specific legal rights. You may also have other rights that may vary from state to state or from country to country. Some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. You are advised to consult applicable state or country laws for a full determination of rights.