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## Pantera Electronics Generator Light Resistor Installation Manual

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This installation manual is to assist in the installation of Pantera-Electronics Generator Light Resistor or GLR. The alternator installed in the Pantera requires a minimum load on the "control" input to make the alternator operate.

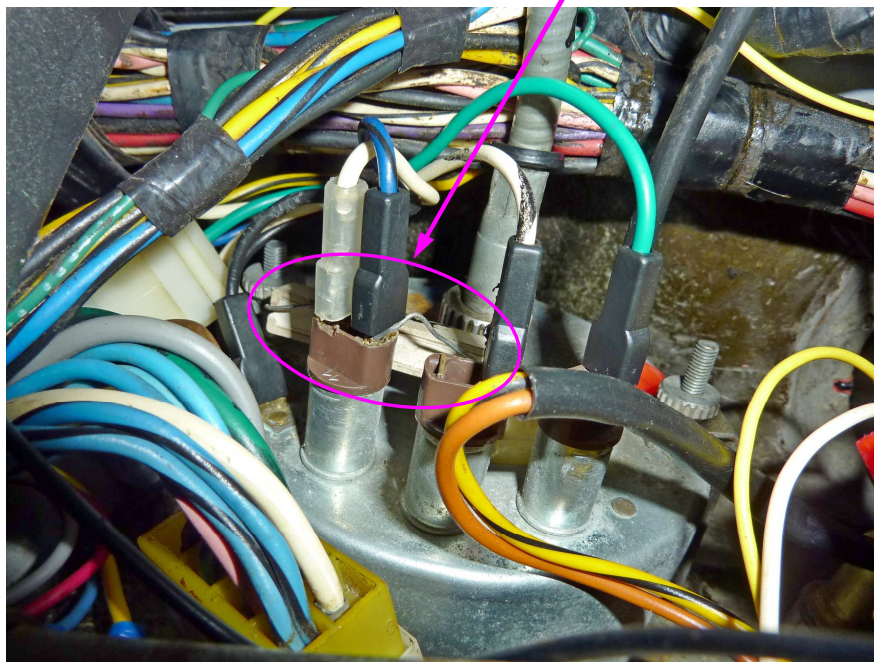
Typically the current from the light bulb is enough to cause the alternator to operate. If the light bulb was to fail the alternator would not sense current and stop operating. The resistor acts a backup for the alternator to sense current even when the light bulb has failed.

After years of exposure to the elements the resistor wires oxidize, become fragile and eventually break. If the light bulb illuminates after the resistor breaks then its known that the resistor needs to be replaced.

This can present a problem in the field to repair the even if a resistor is available because the resistor wires were soldered at the factory. Additionally the lamp socket is plastic and melts if it is not soldered professionally.

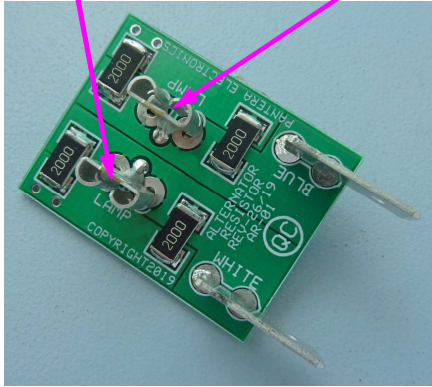
The Generator Light Resistor also allows the use of Pantera Electronics White LED Gauge Lamps, part # LGL-W01, as the indicator lamp for even further improvement in reliability since LED lamps do not burn-out.

Factory installed  
Generator Light Resistor  
on back of speedometer.

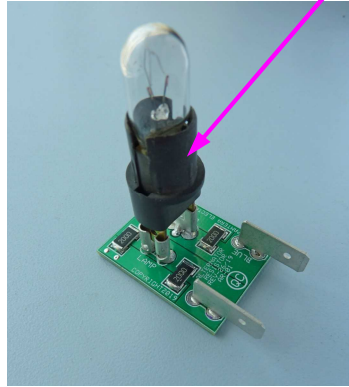


The Pantera Electronics GLR replaces the factory resistor using modern resistors without wires and mounted to a board with receptacles for the light bulb socket and terminals for the wire harness to connect.

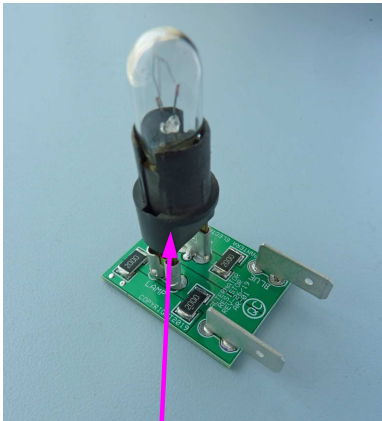
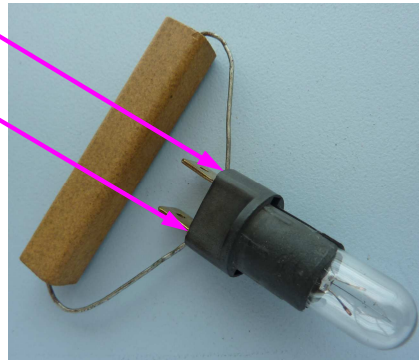
Light Bulb Socket Receptacles



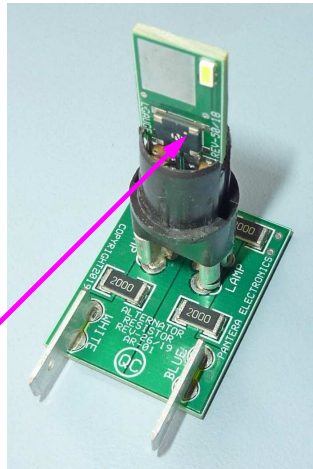
Light bulb socket installed



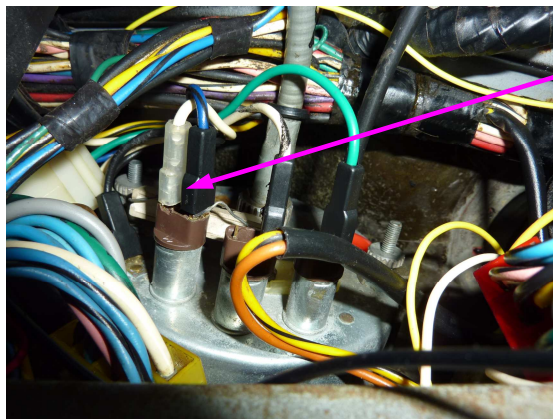
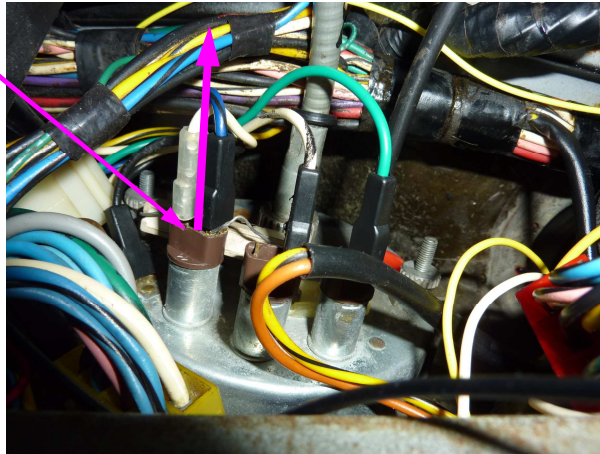
Cut both resistor wires from the light bulb socket as close as possible to the light bulb socket terminals.



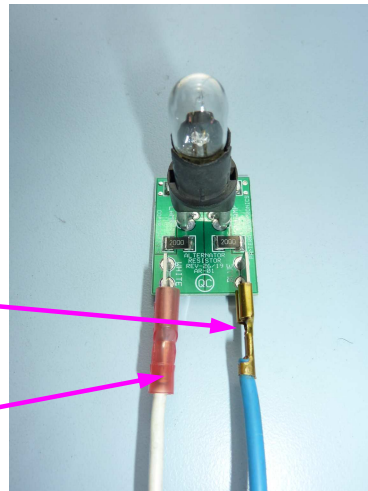
Insert the light bulb socket into the 2 receptacles and press in place.  
If desired, insert an LED replacement lamp, such as Pantera Electronics White LED Gauge Lamps, part # LGL-W01, in the light bulb socket.



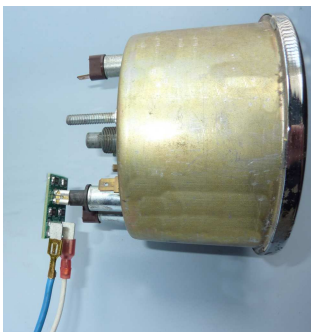
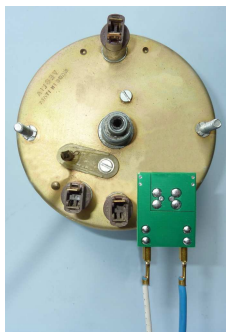
Remove the "GEN" light bulb socket from the back of speedometer by pulling straight out from the back of the speedometer.



Disconnect the BLUE and WHITE wire from the light bulb socket.



Insert the WHITE and the BLUE wires on the terminals on the GLR board. There isn't any polarity the blue and white wire can connect to either terminal.



Finished position installed in speedometer

Disclaimer

The products from Pantera Electronics have been design and manufactured with the best quality components known to the engineer. The installation instructions have been written to assist the owner in the proper use and installation of the products. Pantera Electronics can not be held responsible or held liable for the interpretation or incorrect implementation of the products.

**NOTE:** It's important to keep this installation manual for future reference since revisions to this product change the contents of the installation manual.