



Gauge Installation Notes - GI-VEBD-01

- The gauge and sensor assembly are tested and checked before posting.
- However, before installing the gauge, GaugeInnovations recommends that correct operation of the gauge be verified by:
 - Connecting the 5 pin cable plug from the gauge to the “under the dash” gauge junction box.
 - Connecting the 2 pin DC power cable into the “under the dash” gauge junction box.
 - Connecting the 4 pin sensor cable plug into the “under the dash” gauge junction box.
 - Using a 9v battery (or similar power source) to power up the gauge (red wire + positive, black wire – negative)
- The gauge should show the two battery icons. Please contact GaugeInnovations if there are any problems.
- For best viewing, select a location to install the gauge away from direct sunlight.
- During installation care must be taken with the plugs and cables to avoid damage.
- Please insert and remove plugs very carefully and avoid tension on the cabling,
- GaugeInnovations recommends the gauge be installed by an auto electrician.
- Please follow these steps to install:
 - 1) Connect the 5 pin cable plug from the gauge to the “under the dash” gauge junction box.
 - 2) Connect the 2 pin 12v DC power cable to the “under the dash” gauge junction box.
 - 3) Power up the gauge with nothing else connected. Verify the gauge display screen is operating. Typically, the display will show red icons when the battery sensors are not connected. Power down the gauge.
 - 4) Route the “under the bonnet” sensor junction box connecting cable (2.5m long) through the firewall to the “under the dash” gauge junction box. Take care to not damage the 4 pin connector and wiring.
 - 5) Connect the 4 pin cable plug into the “under the dash” gauge junction box. Power up the gauge and verify the battery 1 and 2 icons show battery sensor voltage, current and temperature. (A “factory reset” may be required if the sensor temperatures are not displayed correctly)
 - 6) Install the battery 1 and battery 2 sensors as described in the installation instructions. Please take care as accidental shorts can result in very high currents.
 - 7) Attach the sensor junction box and gauge junction box (using the 3M double sided pads) to suitable locations away from heat and electrical noise sources and as high as possible in the engine bay.
 - 8) Finally, power up the gauge and check the battery 1 and 2 information is displayed.
 - 9) Set the battery 1 and 2 warning and alarm as required. In general, the factory set limits are suitable.

Resolving Problems

1) Nothing is displayed on the gauge – screen is blank

- Remove the 4 pin plug and check if the gauge display works with just power connected. If the display then works, there is a short in the sensor cabling. If there is no display, the gauge is faulty. Please contact GaugeInnovations for assistance.

2) The gauge is showing ***, flashing red icons, the alarm is sounding or the voltage, current or temperature are showing as zeros

- This display indicates that the gauge is not receiving signals from the sensors. Check the 4 pin plug on the back of the gauge and sensor cabling for loose or faulty connections. If required, please contact GaugeInnovations for assistance.
- A “factory reset” may also be required to restore the gauge configuration and sensors.

3) The gauge is showing current is charging (green) when it should be showing discharging (red) or vice versa

- This indicates a shunt has been not been correctly installed (ie shunt is reversed). Re install the shunt taking great care to avoid shorts.

4) Cleaning the gauge

- Use a soft cloth (eg glasses cloth) or lens brush to clean the gauge. Don't use any harsh cleaning chemicals . isopropyl alcohol (ie glasses cleaner) is ok.

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