

BLUE GUARD INSTALLATION GUIDE

BG-HARNESS



Warranty Information

Blue Guard Innovations, LLC 520 Zang Street, Suite 221 Broomfield, Colorado 80021 warrants to the original consumer purchaser that this product will be free from defects in material and workmanship, providing that the unit is not opened or otherwise abused for a period of three (3) years from the date originally purchased unless otherwise noted or sold by the manufacturer. The exclusive remedy of the consumer purchaser in the event the product is defective is to return the product to Blue Guard Innovations, LLC at the above address, freight prepaid with original sales receipt. When items are returned and found to be working, or when the warranty has been voided, the cost of shipping back to the customer will be charged to the customer. Returned product is considered abandoned property following 30 days with no response to Blue Guard Innovations, LLC Customer Service. IMPORTANT: FOR THIS WARRANTY TO BE EFFECTIVE, the product MUST BE SUPPLIED WITH PROOF OF ORIGINAL PURCHASE DATE OF THE PRODUCT. THE ACCEPTANCE BY BLUE GUARD INNOVATIONS, LLC OF ANY PRODUCT RETURNED SHALL NOT BE DEEMED AN ADMISSION THAT SUCH PRODUCT IS DEFECTIVE OR IN VIOLATION OF ANY WARRANTY. THE COMPANY RESERVES THE RIGHT TO REPAIR OR REPLACE THE PRODUCT. NO REPRESENTATIVE OR OTHER PERSON IS AUTHORIZED TO ASSUME FOR BLUE GUARD INNOVATIONS, LLC ANY ADDITIONAL LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS OR TO ALTER THIS WARRANTY IN ANY WAY. IN NO EVENT WILL BLUE GUARD INNOVATIONS, LLC BE LIABLE FOR MORE THAN THE SALES PRICE OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL BLUE GUARD INNOVATIONS, LLC BE LIABLE FOR ANY LOST PROFITS, INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES. THE LIMITATION ON LIABILITY FOR LOST PROFITS, INCIDENTAL OR CONSEQUENTIAL COST EXPENSES OR DAMAGES SHALL SURVIVE ANY FAILURE OF ESSENTIAL PURPOSE OF THIS LIMITED WARRANTY. All wiring on the vessel shall be performed by a QUALIFIED MARINE ELECTRICIAN and in accordance with the "Fire Protection Standard for Motor Craft", NFPA No. 302, The Standards of the American Boat and Yacht Council, Inc., and the USCG Safety Standards for Boat Electrical Systems (33 CFR 183). Some states do not allow the exclusive or limitation of incidental or consequential damages, so the above limitation may not apply to you. NO EXPRESS OR LIMITED WARRANTY, INCLUDING WARRANTY OF MERCHANTABILITY AND FITNESS SHALL EXTEND FOR ANY PERIOD OF TIME GREATER THAN THREE (3) YEARS FROM THE DATE OF ORIGINAL PURCHASE OF THIS PRODUCT. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. CAUTION - Warranty void if seal on product is broken or product is tampered with in any way, if any electrical wire is cut back more than 4 inches, if electrical splices become submerged, or if product is installed contrary to instructions or warnings. Blue Guard Innovations, LLC 520 Zang Street, Suite 221 Broomfield, Colorado 80021.

www.bluebgi.com

Blue Guard systems are compatible with 12, 24, or 32 Vdc power.

To download product user manuals, go to: www.bluebgi.com

General Instructions

- Be sure to read, understand and follow the included instructions. Not following the below instructions may void your warranty.
- **WARNING:** Disconnect power from system before installation.
- Don't cut more than 4" of wire.
- Keep connections high and away from water or condensing moisture.
- The negative wire must be connected to a bonded common ground point, i.e. with the ground point connected to the battery negative, and situated as close as possible to the battery negative terminal.
- Install properly rated fuse.
- Ensure that any additional wiring is the appropriate gauge for the distance and load (Refer to ABYC Standards).
- Seal any unused wires with waterproof adhesive-lined heat shrink to be protected from water or moisture.
- After installation is complete use the BGI Config App to verify installation and test for proper functionality.

Installation: Crimping

- For proper crimping of each wire follow the diagrams below.
- Repeat until all wires have been properly crimped.
- Provided gray cable seals and terminals can only be used with 16-14 AWG wire.



1. Slip gray cable seal over wire



2. Strip the wire 1/4"



3. Move gray cable seal to end of insulation



4. Place terminal into crimper at marked 16-14 AWG slot



5. Place prepped wire into terminal and crimp



6. Repeat steps 1-5 until all wires have been crimped

Package: BG-Harness

- Pre-assembled Harness.
- White 5-Contact Male Connector.
- Black 5-Contact Female Connector.
- Black 2-Contact Male Connector.
- 9 Male Crimp Terminals, 16-14 AWG.
- 7 Female Crimp Terminals, 16-14 AWG.
- 14 Gray Cable Seals.
- 4 Green Plug Seals.

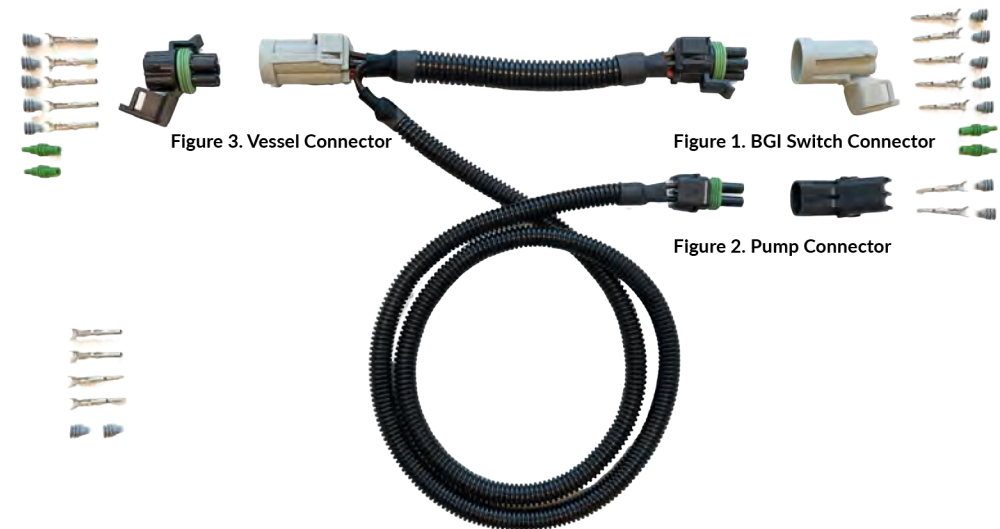


Figure 3. Vessel Connector

Figure 1. BGI Switch Connector

Figure 2. Pump Connector

All wiring on the vessel shall be performed by a QUALIFIED MARINE ELECTRICIAN and in accordance with the "Fire Protection Standard for Motor Craft", NFPA No. 302, The Standards of the American Boat and Yacht Council, Inc., and the USCG Safety Standards for Boat Electrical Systems (33 CFR 183).

General Instructions

- Insert crimped terminal/wire/seal assembly into backside of connector until it clicks into place. Once all terminals have been inserted, snap the retaining cover over the rear of the connector.
- Use provided green plug seals in any unused pin locations.

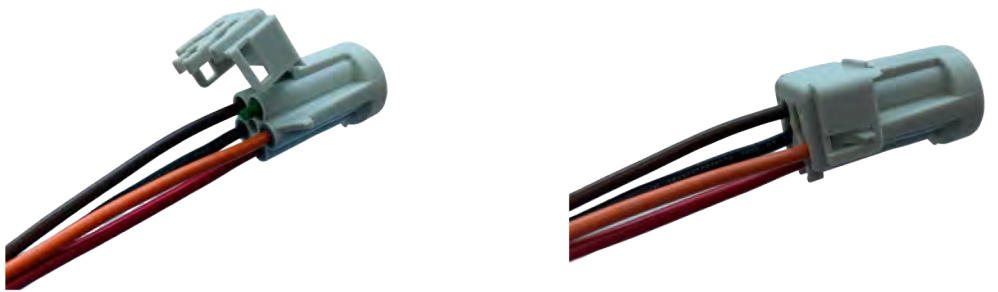


Figure 1: BGI Switch Connector

- Use with male terminals.

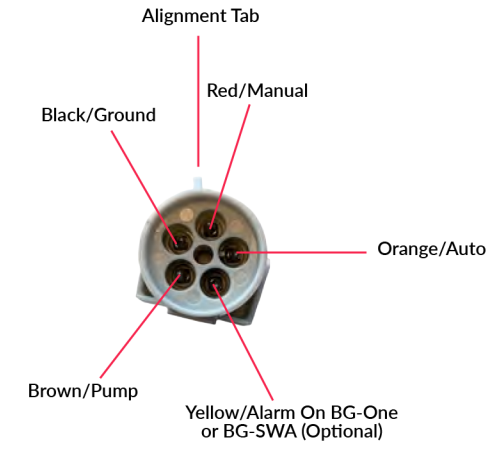


Figure 2: Pump Connector

- Use with male terminals.



Figure 3: Vessel Connector

- Use with female terminals.
- Ground wire must be connected to a known good ground point or directly to the negative battery terminal.
- Pump status can be used to drive an indicator light for when the pump is ON. Do not connect pump status to power.

