

# INSTALLATION INSTRUCTIONS



Tech Support  
856-768-5700 EXT 2  
TechSupport@LEDGlow.com

## Million Color LED Expandable Golf Cart Underbody Lighting Kit

This kit is recommended to be installed by a licensed professional. The improper installation of this kit will void all warranties.

The Control Box and Junction Box that are used to power the underbody tubes must be installed in a dry location! Having these parts exposed to water or the elements will cause the kit's controller to fail. Any water damage or corrosion to this part will VOID all warranties.

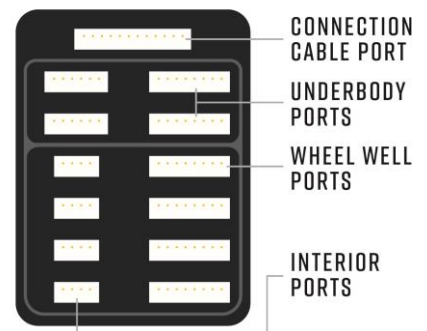
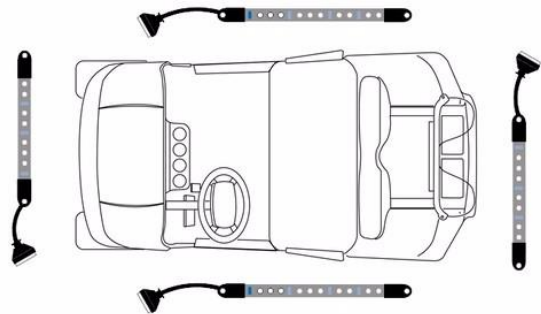
PLEASE READ THE FOLLOWING INSTRUCTIONS THOROUGHLY BEFORE INSTALLING AND OPERATING THIS LED GOLF CART KIT.

### 4pc Golf Cart Kit Includes:

- (2) 18" Flexible Tubes
- (2) 28" Flexible Tubes
- Control Box
- Junction Box
- Connection Cable
- (2) Wireless Remotes
- (8) Self Tapping Screws
- (12) Zip-Ties
- (8) Rubber Port Plugs

### Golf Cart Kit Installation:

1. Arrange the tubes out on the ground the way you plan on installing them and test the kit to ensure proper functionality before installing.
2. Temporarily power the kit with any 12 volt source to ensure it is functioning properly before you move forward with this installation. Simply connect the red wire to the positive (+) terminal and the black wire to any good bare ground metal source or negative (-) terminal of a 12 volt battery. Power the kit on to ensure full functionality. Once you have determined the kit is functioning properly, remove the power from your kit and begin the installation.
3. **Optional:** Raise and support the golf cart, if necessary.
4. Clean the proposed mounting surfaces with an alcohol prep pad. The mounting surface should be between 45 and 85 degrees Fahrenheit to achieve the strongest bonding results from the double-sided adhesive tape. The surface area must be free of all oils, moisture, dirt and wax in order for the supplied adhesive tape to bond and adhere to the installation surface properly. **Optional:** To achieve the strongest bond between the lighting strips and the golf cart, you can use 3M™ Adhesion Promoter, which is sold separately from your kit.
5. Start with the front 18" tube and mount it with wire facing the driver side with plenty of clearance from heat and moving parts. The tubes are flexible and can be contoured if the undercarriage is not flat.
6. Mount the side 28" tubes with the wires facing the front of the cart with plenty of clearance from heat and moving parts.
7. Mount the rear 18" tube with the wire facing either side with plenty of clearance from heat and moving parts.
8. Next, mount the junction box under the seat of the golf cart. The junction box must be mounted away from heat, moisture, and the elements.
9. Starting with the rear tube, run the wires to junction box. Make sure to secure the wires tightly when going around any suspension parts and exhaust by using the included zip-ties. Wires must be at least 10 inches from the exhaust and away from any suspension parts. If a wire is pinched, the kit may malfunction and could void the warranty. Run the wires along one side of the golf cart and make sure to tightly secure it. Then, run the front tube wires to the junction box. Ensure that all connections are secure.
10. Run the connection cable to the junction box and ensure that the connector is secure.
11. Make sure the connection cable is mounted away from heat and moving parts. Any excess wire will have to be bound and secured tightly with zip-



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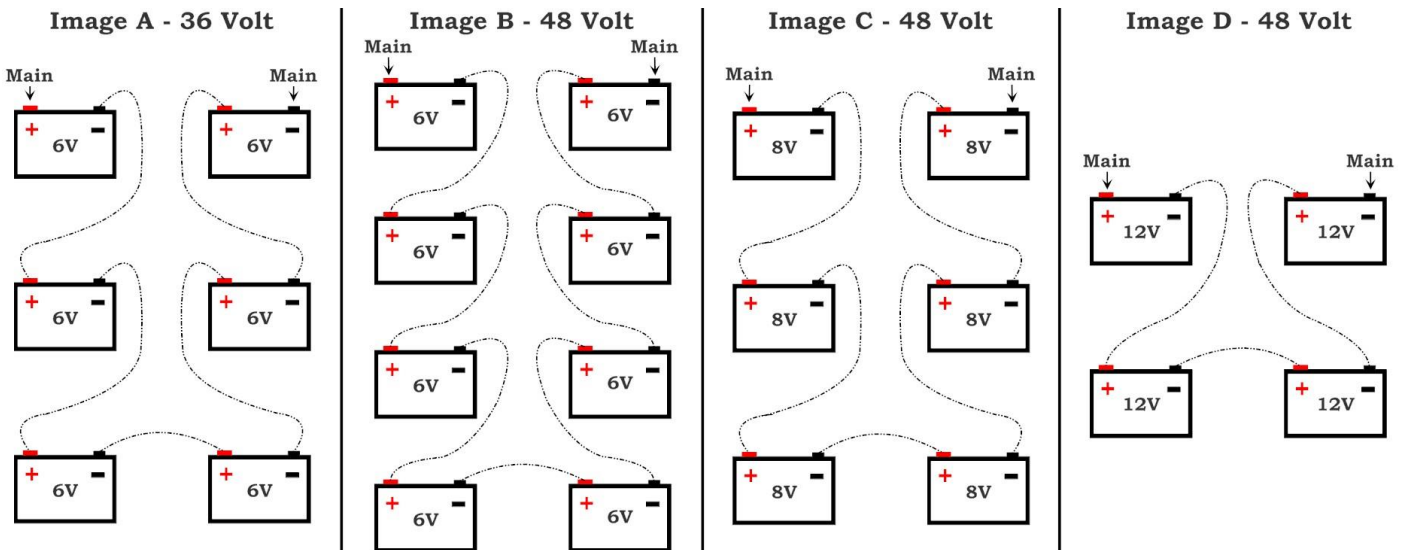
ties. **DO NOT SHORTEN OR CUT THE WIRES. YOU WILL DESTROY THE KIT AND VOID THE WARRANTY.**

12. Block off any ports on the junction box that are not being used with the supplied rubber plugs.

## Connecting Power to Electric Golf Carts:

This Million Color Golf Cart Lighting Kit was designed to be powered by a 12 volt system. If you are running a 36 or 48 volt system, Golf Cart Battery Voltage Reducer is required. This Reducer can be purchased at LEDGlow.com

1. If you are unsure, verify voltage with a multimeter before connecting the kit to the golf cart. Connect the red wire to a 12 volt source. The Golf Cart Battery Voltage Reducer can accept an input voltage of 15-60 volts and output 12 volts at a max of 5 amps, allowing you to connect to any power source on the cart safely. This allows the light kit to draw evenly between all of the batteries, prolonging the life of them.
2. Switch your golf cart to TOW mode (if available) and turn the key switch to off so the golf cart is powered down.
3. Test the voltage of the connection that you will be installing the Golf Cart Battery Voltage Reducer to with a multimeter. Because an electric golf cart requires a lot of current, several batteries are wired in series in order to get the power and capacity needed. It is extremely important to test the voltage of this connection prior to installing the Golf Cart Battery Voltage Reducer as it could potentially cause damage if installed incorrectly.
  - A 36 volt golf cart will typically have (6) 6 volt batteries. (Image A)
  - A 48 volt golf cart could be wired in several different configurations, such as:
    - (8) 6 volt batteries. (Image B)
    - (6) 8 volt batteries. (Image C)
    - (4) 12 volt batteries. (Image D)



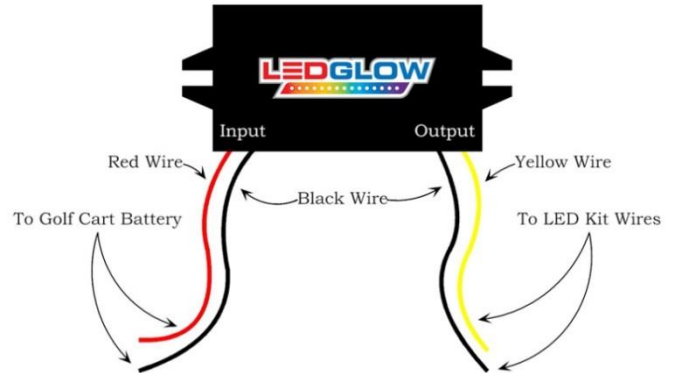
4. Test each individual battery to determine that its voltage is correct.
5. Hold one lead on the main negative post and test each positive post to see how the voltage is in series. When connecting the voltage reducer, make sure to connect to both the main positive and negative posts to ensure an even draw across all batteries.
6. Disconnect the main negative terminal of the golf cart's battery.
7. Find a good, flat metal surface to mount the Golf Cart Battery Voltage Reducer using screws and/or double sided tape, away from any heat or moving parts. **The Golf Cart Battery Voltage Reducer may reach high temperatures, so it is important that this is not installed to any plastic parts of the golf cart.**
8. Using wire strippers, strip the lead wires of the Golf Cart Battery Voltage Reducer so there is about 0.25" of bare wire showing.
9. Connect the red wire from the input of the Golf Cart Battery Voltage Reducer to the main positive terminal of the battery on the golf cart using an eyelet, spade, or similar connector.
10. Connect the black wire from the input of the Golf Cart Battery Voltage Reducer to the main negative terminal of the battery on the golf cart using an eyelet, spade, or similar connector.

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11. Connect the yellow wire from the output of the Golf Cart Battery Voltage Reducer to the positive wire of the lighting accessory that you are installing to the golf cart using a crimp on butt connector or a similar connector. If possible, soldering the wires is recommended to ensure a secure connection.
12. Connect the black wire from the output of the Golf Cart Battery Voltage Reducer to the ground wire of the lighting accessory that you are installing to the golf cart using a crimp on butt connector or similar connector. If possible, soldering the wires is recommended to ensure a secure connection.
13. Reconnect the main negative terminal of the golf cart's battery and switch your cart back to RUN mode (if available).



## Connecting Power to Gas Engine Carts:

1. Connect the red wire to a 12 volt source. If you are unsure, verify voltage with a multimeter before connecting the kit to the golf cart. Note: If you need to extend the power wires, be sure to use a 16 or 18 gauge automotive grade wire. If you are running the power wire to the battery and must go through metal, use an existing grommet or drill a hole and add a new grommet, which is available at any auto parts store. Be sure to reinstall the fuse within 6 inches of the power source. If you connect the power wire to a switched 12 volt source, then it will not remember the previous color and pattern it was last on.
2. Connect the black wire to a good ground source, grounding block, or directly to the negative terminal of the battery.

## Testing Operation of the Kit:

1. Lower the golf cart if it was raised and test your new LEDGlow Million Color LED Golf Cart Underbody Kit. Cycle through the colors and modes to ensure full functionality.
2. Turn the steering wheel as far as it can go in both directions to ensure that there will be no tubes and/or wires coming into contact with the tires. **If a tube or wire is damaged by the tire, the warranty will be voided.**

## Control Box & Wireless Remote Functions:

<b>Power Button</b>	On/Off
<b>Mode Button</b>	Solid Illumination, 7 Running Modes, Pulse Mode, 3 Scan Modes, 3 Strobe Modes, 3 Fade Modes, S.O.S Mode, 4 Music Modes, Demo Mode
<b>Color Button</b>	Red, Hot Pink, Pink, Purple, Orange, Yellow, Green, Teal, Blue, White, Color Cycle, Color Fade
<b>Speed Button</b>	5 Speed Levels

- **Enable Auto On/Off Function:** Turn the kit off. Press and hold down **Mode** and **Color** buttons on the control box. After the teal color lights up, turn on the kit and test for functionality.
- **Disable Auto On/Off Function:** Turn the kit off. Press and hold down **Mode** and **Speed** buttons on the control box. After the Orange color lights up, turn on the kit and test for functionality.

## Adding or Replacing a Wireless Remote:

1. Your kit is already pre-programmed for the included wireless remotes. This setup is only needed when replacing an existing remote or by adding additional wireless remotes to your system. You can program up to 2 wireless remotes to 1 control box.
2. In order to program the remote to the control box, you must turn the kit off.
  - Press and hold the "Mode" button on the control box and any button on the wireless remote simultaneously for 5-7 seconds to turn the kit off. The LEDs on the kit will illuminate green if successful. Test the operation with the remote.
  - For accessories, replacement parts and/or technical support, please visit [www.LEDGlow.com](http://www.LEDGlow.com).

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## ONE YEAR NON-TRANSFERRABLE LIMITED WARRANTY AND DISCLAIMER

LEDGlow Lighting, LLC ("LEDGlow") 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. **This warranty does not cover any Product that is (1) installed incorrectly, or (2) damaged by collisions, vandalism, other accidents, or similar causes.**

For a period of **one (1) year** from the date of purchase, at no charge to the Purchaser, LEDGlow will repair or replace this Product if it is determined by LEDGlow 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.LEDGlow.com](http://www.LEDGlow.com), to determine the warranty coverage in the countries in which they are located.

LEDGlow 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. LEDGlow's warranty does not cover any expenses incurred in removing Products that are defective or re-installing 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 LEDGlow (but for customers in the contiguous United States, LEDGlow will pay the shipping charges if any Product fails during the first thirty (30) days after purchase). The Product must be returned in its original carton or in a similar package affording an equal degree of protection. LEDGlow will return the repaired or replaced Product, freight prepaid, to the Purchaser. LEDGlow 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 on 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 AND 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 LEDGLOW. ALL WARRANTY CLAIMS MUST BE MADE WITHIN THE WARRANTY PERIOD, AND ANY PRODUCTS RETURNED TO LEDGLOW MUST BE SHIPPED IN ACCORDANCE WITH LEDGLOW'S PROCEDURES (INCLUDING USE OF RMA NUMBERS SUPPLIED BY LEDGLOW 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 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.

**2. EXCLUSIVE REMEDY; ACCEPTANCE:** PURCHASER'S EXCLUSIVE REMEDY AND LEDGLOW'S SOLE OBLIGATION IS TO SUPPLY (OR PAY FOR) ALL LABOR NECESSARY TO REPAIR ANY PRODUCT FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD AND TO SUPPLY NEW OR REBUILT REPLACEMENTS FOR DEFECTIVE PARTS. LEDGLOW WILL REFUND THE PURCHASE PRICE FOR SUCH PRODUCT ONLY IF 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:** LEDGLOW SHALL HAVE NO OBLIGATION TO PURCHASER WITH RESPECT TO ANY PRODUCT THAT IS SUBJECT 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. LEDGLOW EXCLUDES FROM WARRANTY COVERAGE PRODUCTS SOLD AS IS AND/OR WITH ALL FAULTS. LEDGLOW 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, LEDGLOW 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 2-312(3) OF THE UNIFORM COMMERCIAL CODE OR IN ANY OTHER STATE STATUTE.

### LIMITATION OF LIABILITY

THE LIABILITY OF LEDGLOW, 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 LEDGLOW 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.