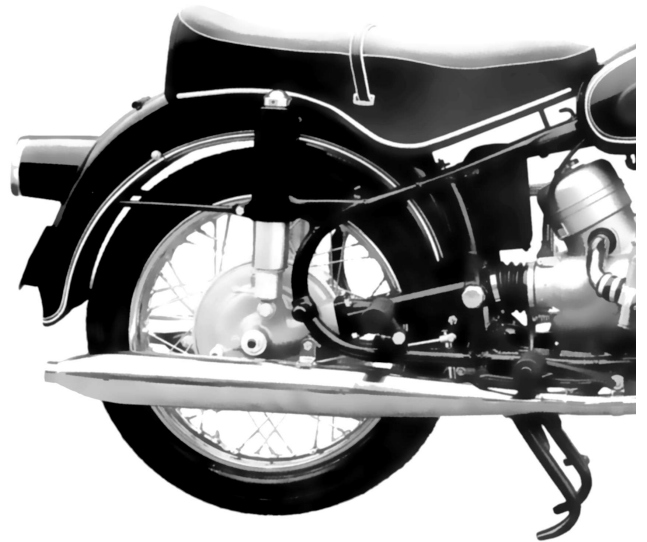


BMW by Bulbs That Last 4 Ever

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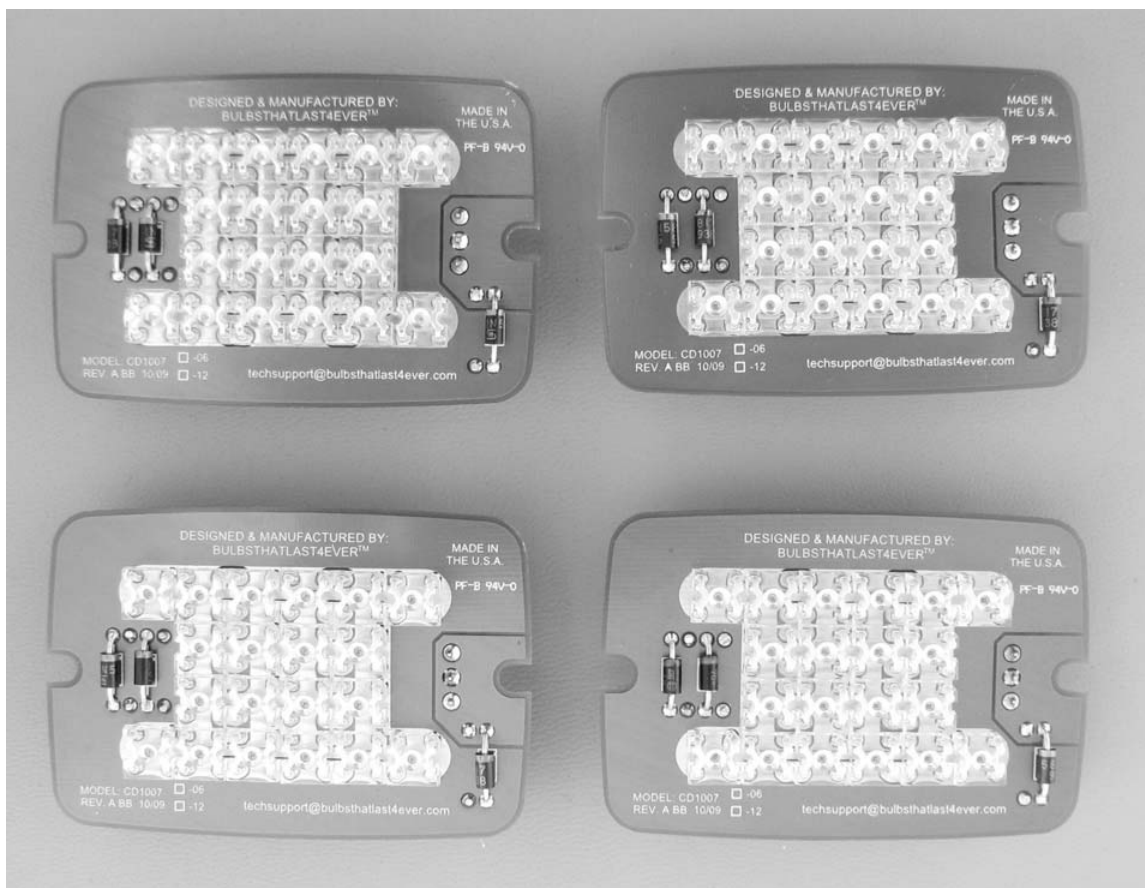
L.E.D. Taillight Installation Instructions

Model: CD1007, LED Blinker Conversion Kit Installation Instructions For 1969-1978 BMW Motorrads:

Thank you for choosing the Bulbthatlast4ever™ CD1007 LED Blinker Conversion Kit. This kit has been designed for optimum installation in genuine BMW (ULO) blinker assemblies as illustrated in Figure 2 of the Installation. A genuine BMW (ULO) light assembly was used for all images shown and explanations discussed herein. *If your blinker housings are different from the one shown in Figure 3 (right), these LED Boards will not fit or install properly.*

Before you start to install this kit, carefully read and follow these installation instructions for trouble-free installation. Expect the installation to take approximately 60-90 minutes, utilizing a screwdriver, Jeweler Screwdriver Set, and some other basic hand tools.

Getting Started:



Basic Kit Shown Above

Figure 1

Kit Check List:

1. Qty 4, LED Boards
2. Qty 1, Signal Lamp Converter Assembly (Not Shown)
3. Qty 8, Small O-rings (Not Shown)

Notes: *Some items may differ from any items shown or depicted anywhere in these installation instructions. Items are subject to change without notice at anytime.*

Disclaimer:

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Model: CD1007, LED Blinker Conversion Kit
Installation Instructions For 1969-1978 BMW Motorrads:

Installation:

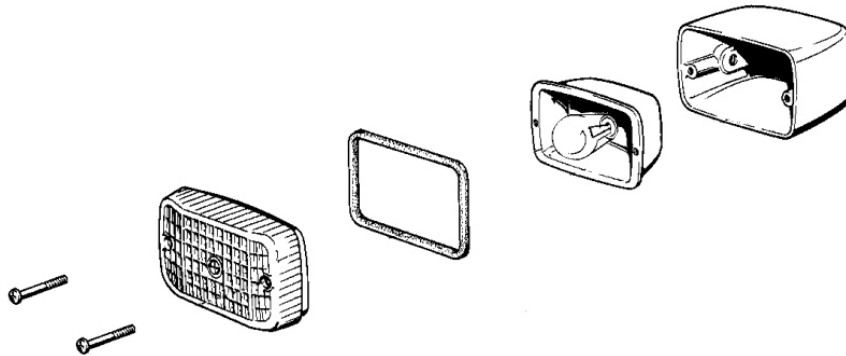


Figure 2

1. Disassemble all 4 blinker light assemblies as shown in Figure 2 to start the installation. Be sure to remove the lens, gasket, and bulb/reflector assembly completely. Be sure to remove the wires from the reflector assembly prior to removal from the housing. The reflector assembly will not be used any further, keep in a safe place to be stored, if desired.

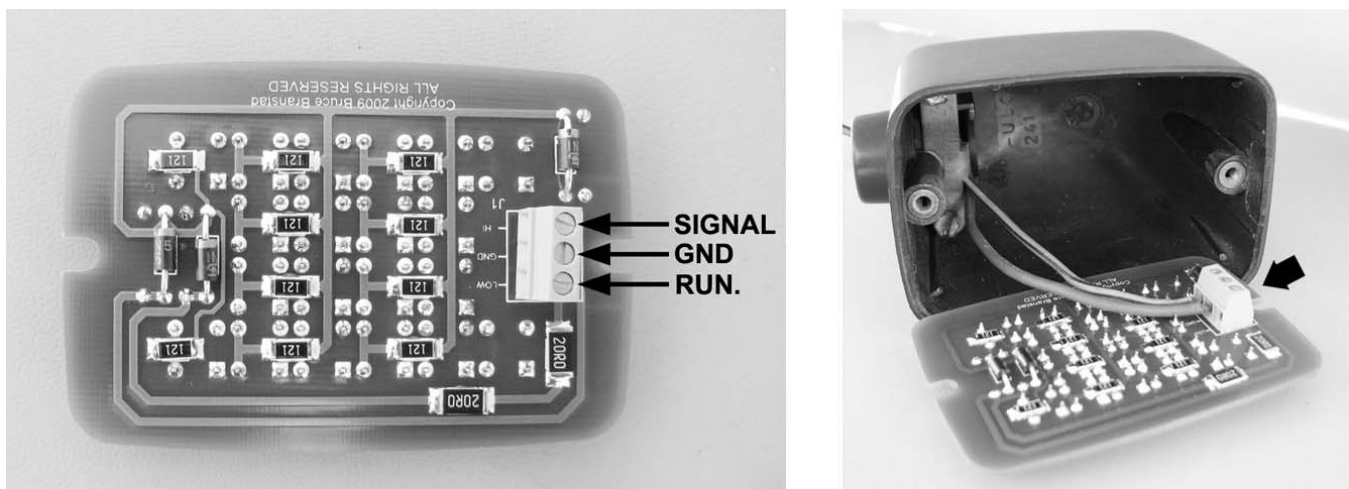


Figure 3

2. Figure 3 (left) shows the function with their labels on the screw terminal block locations. If planning to use the “Running Light” feature, an additional wire might be needed to be installed to use this option. *If you desire to use the “Running Light” function of these LED Boards, please refer to section “How to Use the Running Light Feature of the CD1007s” for complete instructions.*
3. Pull out the existing wires far enough so that they can easily reach the terminal block. Insert the correct wire in the correct location of the terminal block. Using a jeweler flat-blade screwdriver, tighten the screw to secure the wire in its location. It is highly recommend to keep the terminal block to end of the signal housing facing outward of the motorcycle, as illustrated in Figure 3 (right).

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Model: CD1007, LED Blinker Conversion Kit
Installation Instructions For 1969-1978 BMW Motorrads:

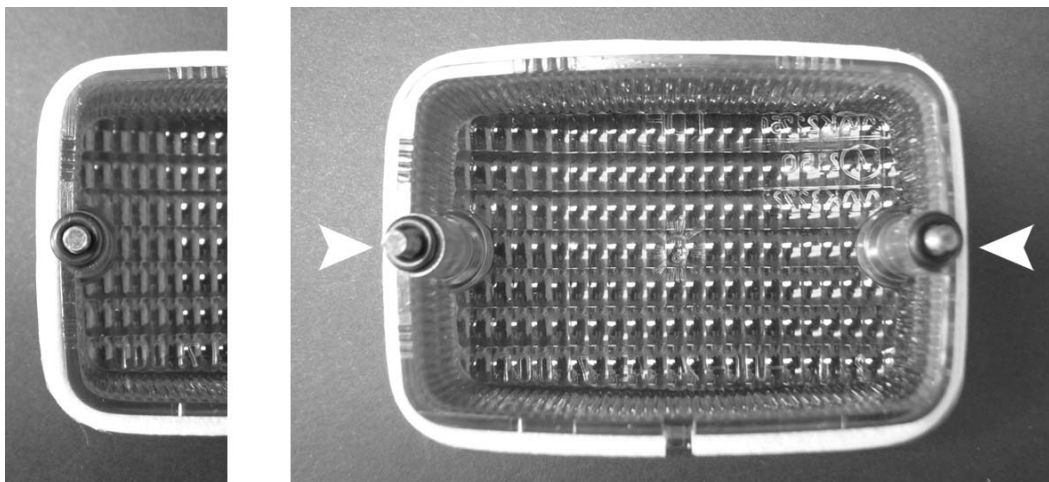


Figure 4

4. Install the screws into the lens, then place an o-ring over each screw, as illustrated in Figure 4 (left & right). The o-rings will prevent the LED Board from moving around due to vibration.



Figure 5

5. Firmly seat the LED Board into the signal housing, as illustrated in Figure 5 (left). Then install the lens and tighten the screws to secure the lens to complete the conversion, as illustrated in Figure 5 (right). Repeat the above process as needed until for all the blinker assemblies have been converted.

How to Use the Running Light Feature of the CD1007s:

Note: If you desire to use the Running Light Feature, the LED Boards must be wired as described below, (Check with your local laws regarding amber rear running lights before using this option for the rear lighting):

Decide which configuration shown in diagram Figure 6 is desired, and then construct an external wiring harness for that desired configuration. Once you have completed constructing of your harness, then connect a wire to each LED Board from the harness. Refer to Figure 3 (left) for the location of where the wire should be installed on the LED Board. It is highly recommended that the power source is connected through a 1.0A fuse, which is switched and only active when the ignition switch is turned on. Secure your harness to the existing main harness

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Installation Instructions For 1969-1978 BMW Motorrads:

and follow the routing. It is recommended that you secure your harness every 3-6" {76-152mm} with electrical tape or cable ties.

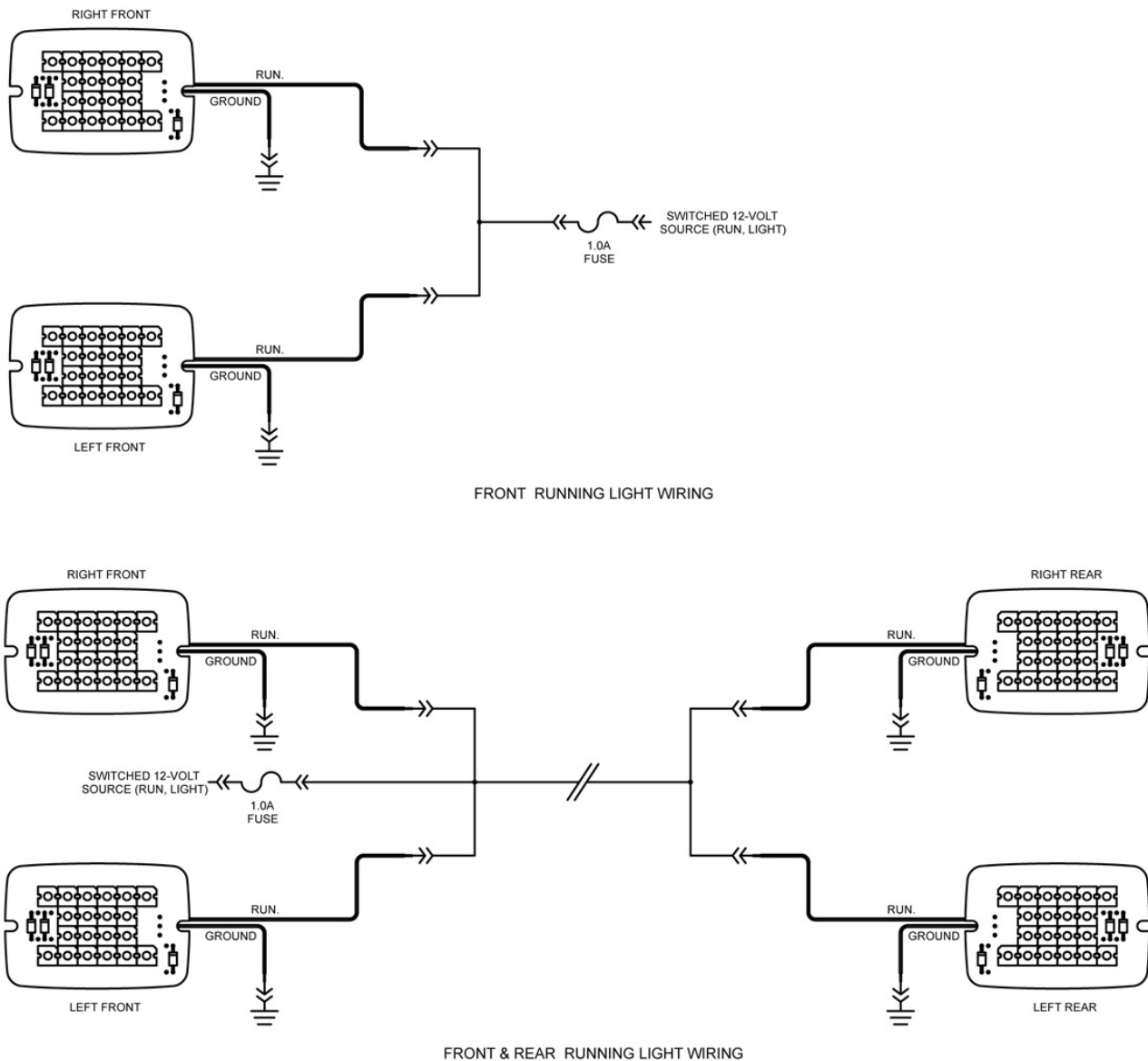


Figure 6

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Single Turn Indicator Systems (Only):

Note: The following modification will be needed to be performed in order for the signal indicator to function correctly with these LED Boards. If you fail to perform this modification, when the winkers are operated they will act as a 4-way flasher (hazard lights).

Figure 7 shows a typical stock single bulb signal indicator used on most motorcycles. The signal indicator lamp can be found on either the head lamp shell or on later models in the indicator lamp cluster. This type of system works as described by the following. The indicator bulb is always connected to a ground, through the filament of either signal bulb at any given time. When one side is in use, the indicator bulb grounds through the filament of the opposite signal bulb that is not in use. When the opposing side is in use, the same thing occurs, but in the reverse direction.

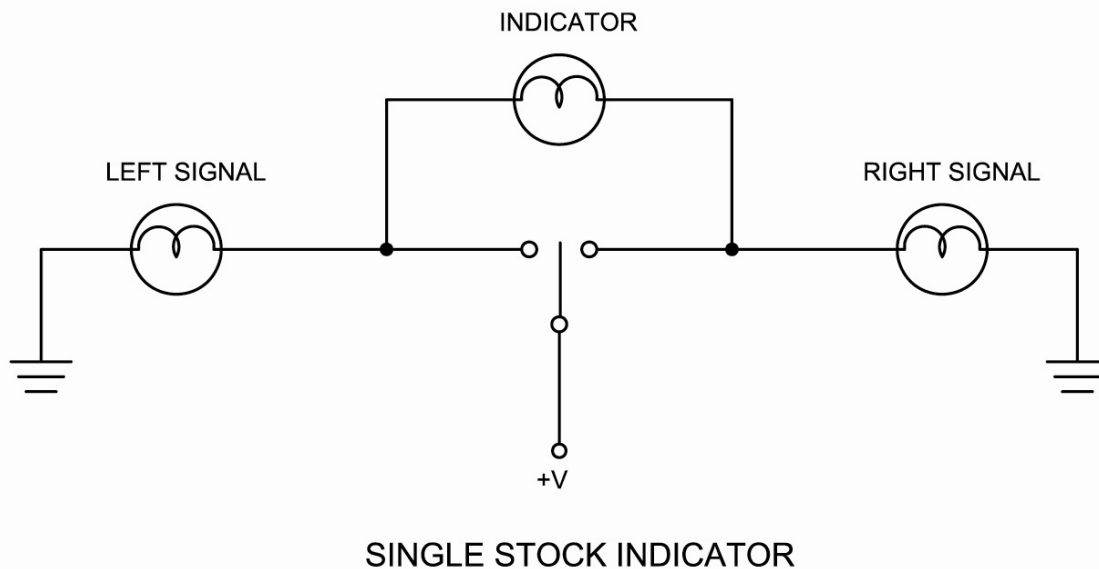


Figure 7

Figure 8 (below) shows the necessary modifications when these LED Boards have been installed, in order to prevent the “4-way or Hazard Lights” condition to occur. Using the Signal Lamp Converter Assembly, connect the unit’s wires as shown in the wiring diagram Figure 8.

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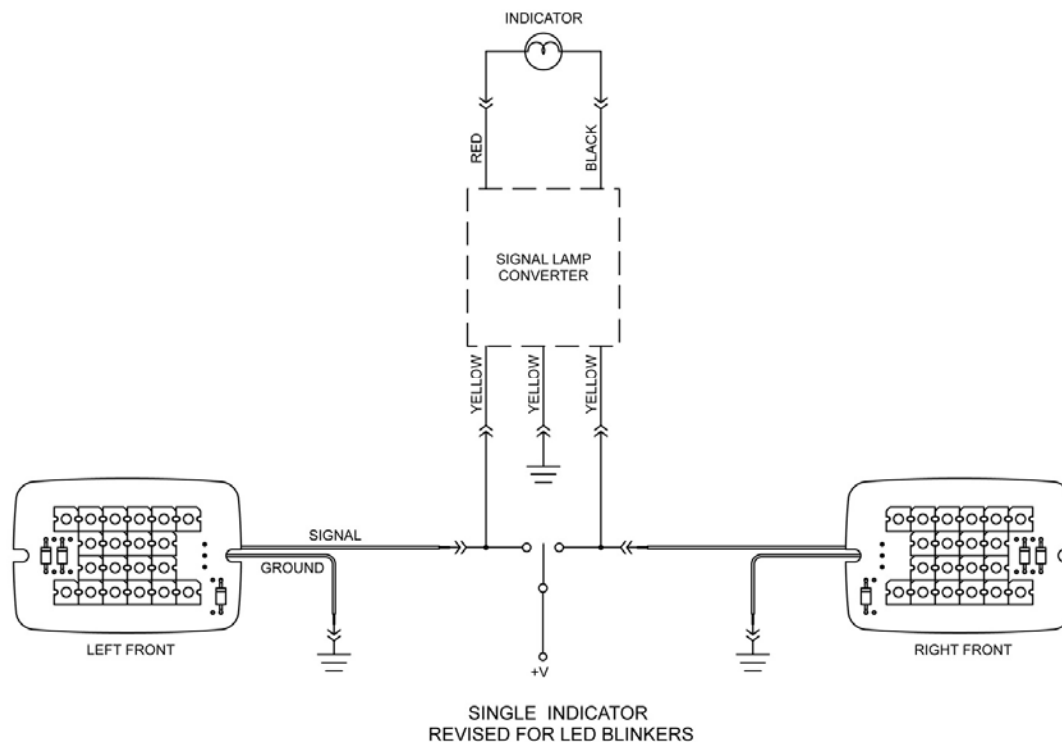


Figure 8

Flasher Units:

Any off-the-shelf flasher units rated for use with LEDs like the Tridon P/N: LED03 or LED04 can be used with these LED Boards. *Please Note – All these type of flasher units are designed for use on only 12 volt negative ground systems. Also they will not work on either a positive earth (ground) or any 6 volt systems. Neither of the above mentioned flasher units have been tested with these LED Boards. Use at your own risk.*

It is highly recommend to use either of our specially designed electronic flasher units, the BTL4E-004 “Pulsar” or BTL4E-005 “Pulsar-RL” with these LED Boards. We can guarantee that these LED Boards will function as intended and will be “Trouble-Free” under normal operating conditions. For information regarding these units visit the Bulbthatlast4ever website (<http://www.bulbthatlast4ever.com/products/>) or contact the retailer where this kit was purchased from.

Disclaimer: If you are not confident with your abilities to perform any of the mechanical work or lack any of the tools illustrated or mentioned in these installation instructions, please do not perform the installation yourself. Please seek the services of a qualified/experienced motorcycle mechanic to perform the installation of this product for you. Better Safe, then Sorry!!!

On-line Technical Support is available by e-mail at techsupport@bulbthatlast4ever.com

For Repairs>Returns, please visit this webpage first <http://bulbthatlast4ever.com/returns.html> or call our Help Line at (1) 818-239-2683 for returning instructions.

Warranty Info: See attached “Product Warranty Agreement” for more details.

Disclaimer:

Under no circumstances will Bulbthatlast4ever or it's representatives be responsible or liable for any incidental or consequential property damages or personal injuries arising from or in connection with the use or installation of any of the listed foregoing products or devices. Rev. 6/10



Product Warranty Agreement:

Bulbthatlast4ever warrants all our products, standard, custom, or otherwise against defects in material or workmanship as follows:

1. For a period of 365 days from the date of purchase if this Product is determined to be defective, Bulbthatlast4ever will repair the Product at no charge. After the 365 days period, you must pay a \$10 "Evaluation Charge", labor rate of \$15 per hour, and cost of replacement components. This warranty does not cover cost incurred in connection with the use of un-approved aftermarket accessories used with this Product.
2. To obtain warranty service, you must fill out a "Request for Repair" Form available on-line at <http://www.bulbthatlast4ever.com/contact/returns.html> or call our Help Line at (1) 818-239-2683 for a "Return Product Authorization". Package the product in either its original packaging or some other packing offering an equal degree of protection. Then ship the package to Bulbthatlast4ever as per the information provided on the "Request for Repair" form or provided to you over the phone. The return shipping cost is the sole responsibility of the sender.

This warranty does not cover the following items listed herein, any implications of following items "WILL VOID" the Product warranty immediately and indefinitely, but are not limited to the listed below:

- Cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, improper use or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Bulbthatlast4ever to service this Product.
- Unauthorized customer or end-user modifications, such as grinding, filing, cutting, drilling, or by any other mechanical means with intent to alter the shape or size of the printed circuit board assembly/ies.
- Installation of non-factory approved replacement parts soldered into/onto the printed board assembly/ies such as but not limited to resistors, LEDs, headers, or any other electronic component active or passive used in or on our products. In the case of printed circuit board assembly/ies with factory omitted components, inserting and soldering components or anything into these locations.
- Improper handling of Class I or Class II ESD (Electro-Static Discharge) rated components as per the individual component manufactures handling procedures or datasheet precautions.
- Any damage received to any of the electrical pathways (traces) of the printed circuit board assembly/ies by one more but not limited to the following means, electrical overload, mechanical interference, environmental conditions, deliberate damage inflicted by human or any man-made machine, and/or improper installation of the product.
- Any damage received to the printed circuit board assembly/ies that has resulted due to contact with any type of liquid or fluid, natural or otherwise, but not limited to the following examples, water (fresh or salt-water), gasoline (petrol), any petroleum based products, solvents or cleaners used outside of the manufacturing process.
- Damages that are sustained by accidental damaged such as being involved in a motor vehicle accident of any kind. Accidentally dropping the product onto any surface harder than the printed circuit board assembly/ies or its components.
- Damages that may occur from a vehicle's electrical or charging system that is found not to be properly functional to the manufactures specifications.

Proof of purchase in the form of a bill of sale, receipt invoice, or vendor sales slip, which is evidence of that the unit is within the Warranty period must be presented to obtain warranty service.

Bulbthatlast4ever reserves the right to refuse any product warranty based on any reason listed above. Bulbthatlast4ever also reserves the right to honor or refuse any warranty repair for any reason based upon any signs or suspicion of product tampering to the above-mentioned Product.

This Product Warranty Agreement precedes all previous warranties or agreements.