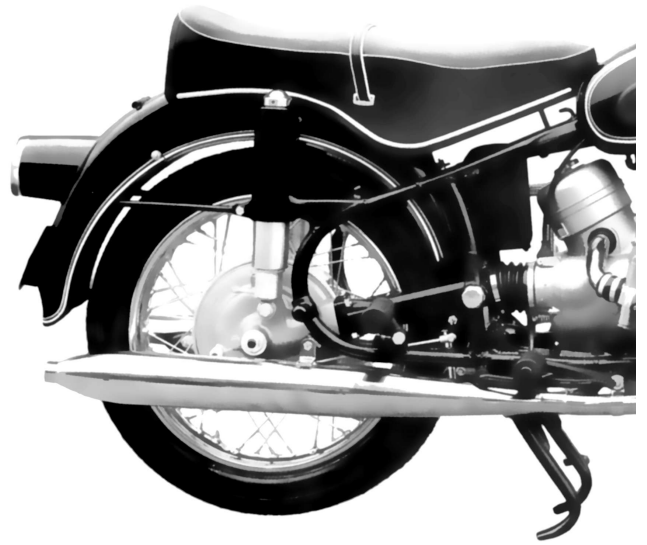


BMW by Bulbs That Last 4 Ever

MOTORRAD fur
MIT L.E.D. Bosche
und
Hella



L.E.D. Taillight Installation Instructions

Model: CD1002 Hella LED Taillight Conversion **For 1955 thru 1969 BMW Motorrads:**

Thank you for purchasing the CD1002 Hella LED Taillight Conversion Kit. It has been designed to be a simple “Plug-In-Play” conversion, available in either 6 or 12 volts for stock or converted electrical systems.

Before you start to install this LED Taillight Conversion Kit, carefully read and follow these installation instructions. Expect installation to take approximately 30-45 minutes under optimum conditions, utilizing some basic hand tools such as a mid-sized flat blade screwdriver and a jewelers’ flat blade screwdriver to perform the installation.

Getting Started:

Hardware Check List:

1. Qty 1, CD1002 LED Assembly.

Installation:



Figure 1

1. Start off by removing the taillight ring assembly from its housing and the motorcycle.



Figure 2

2. Remove the bulb assembly from the reflector as shown in Figure 2. Then place the assembly on a clear work area.

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. 6/07

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For 1955 thru 1969 BMW Motorrads:



Figure 3A



Figure 3B

- Using a mid-sized flat blade screwdriver, pushing in a downwards motion on the area of the retaining spring shown by the arrow in Figure 3A. While pressing the spring end down, move the spring end away for the ring's locking lip. If done correctly, the spring will clear the ring as shown in Figure 3B without distorting the spring's end. Repeat process for remaining retaining springs. *Please remember that these are springs and they can fly across the room or cause possible injury if not handled correctly. Always wear eye protection when working with any springs.*



Figure 4

- Remove the lens/reflector from its ring as shown in Figure 4. In order to separate the lens from the reflector, it will be necessary to remove the gray ring holding the 2 together. Please remove that ring now by peeling it off.

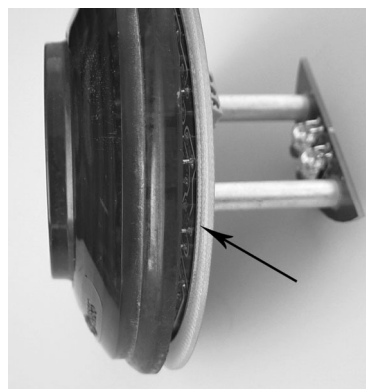


Figure 5

- Place the lens over the CD1002 LED Board; the step feature shown in Figure 5 will locate the lens into the LED Board and into its final position.

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Figure 6

6. Place the lens and the CD1002 LED Board into the taillight ring as shown in Figure 6. Be sure to position the LED Board so that the 2 White LEDs on the smaller board points down towards the mounting tab.

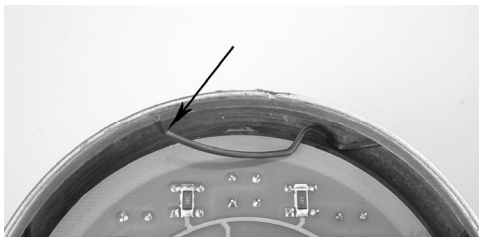


Figure 7A

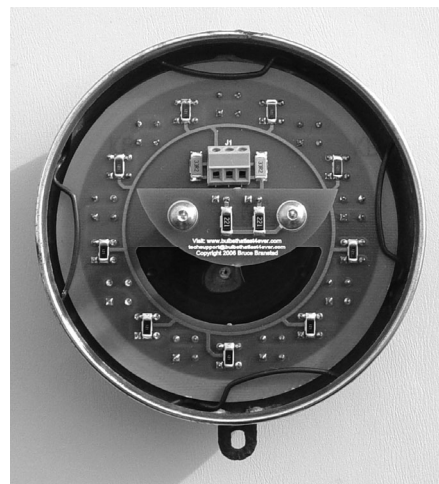


Figure 7B

7. Install the retaining springs in backwards as shown in Figure 7A. To insert the spring end under the retaining lip, push the area shown by the arrow using a mid-sized flat blade screw driver. Push until the spring end is below the lip and then push it under the lip. Install the 3 remaining retaining springs in approximately in the same positions as shown in Figure 7B. *Please remember that these are springs and they can fly across the room or cause possible injury if not handled correctly. Always wear eye protection when working with any springs.*

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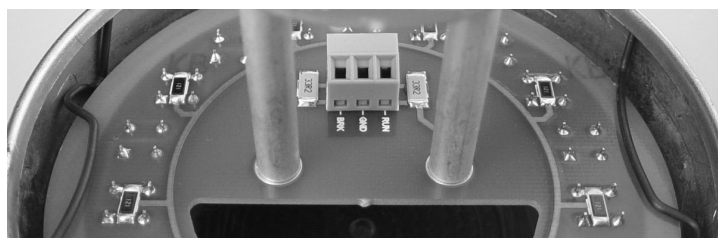


Figure 8A

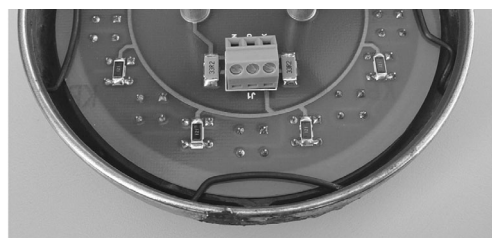


Figure 8B

8. The light assembly is now ready to be connected to the motorcycle's electrical system. Table 1 below will provide explanations for the labels on the back of the LED Board as shown in Figure 8A. Once you have determined which wire goes where, insert that wire into the correct location on the terminal block. Then use a jewelers' flat blade screwdriver to tighten that contact screw shown in Figure 8B.

The wiring hookup is as followed:

J1 Terminal Block	Function
BRK	Brake Light
RUN	Running Light
GND	Ground (-)

Table 1

Important Notes:

- New retaining springs were used for a portion of the installation illustrations. Always replace badly rusted springs.
- The LED Board will require a hard "Ground" to the motorcycle's chassis or by some other grounding method.
- For optimal license plate lighting, keep the area below small LED Board free of dangling wires or other items.

On-line Technical Support 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 818-239-2683 for returning instructions.

Since this LED Board Assembly consists of 2 separate PCBs, it may experience some connection related issues. If the White LEDs are not functioning for any reason, please check to see if the mounting hardware between is properly secured or for accumulated corrosion between the PCBs and mounting studs. You are only authorized to disassemble this assembly for the sole purpose to clean the contact points. Any other actions will affect your product's warranty.

Warranty Info: See attached "Product Warranty Agreement" for more details.

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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/returns.html> or call our Help Line at (1) 818-239-2683 for a "Return Merchandise Authorization" number and deliver the Product freight prepaid, in either its original packaging or packing affording an equal degree of protection, to Bulbthatlast4ever as per the information provided on the "Request for Repair" form or provided to you over the phone.

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 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.
- 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. Accidental 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.