



L.E.D. Tail Light Assembly INSTALLATION GUIDE



SPECIFICALLY

FOR



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MADE IN BURBANK, CALIF. U.S.A.

Model: VOCLED-1 Miller LED Stop Lamp Conversion Kit Installation Instructions:

Thank you for choosing the Bulbthatlast4ever™ VOCLED1 LED Conversion Kit for your Miller “STOP” Lamp assembly; this kit can also be used on Velocette assemblies. This Kit has been designed for optimum installation in either genuine or reproduction Miller Tail Lamp assemblies. A reproduction light assembly was used for all images shown and the explanations discussed herein.

Before you start to install this kit, carefully read and follow these installation instructions for trouble-free installation. Expect the installation to take approximately 30 minutes or more, utilizing a soldering iron, wire cutter/strippers, and some other basic hand tools.

Getting Started:

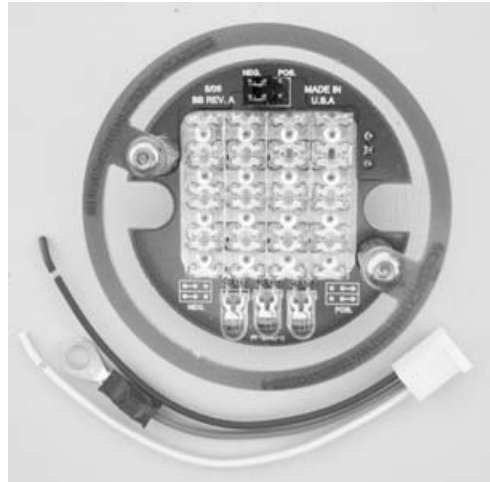


Figure 1

Kit Check List:

1. Qty 1, LED Board Assembly
2. Qty 1, Wire Cable Assembly

Notes: This kit has been supplied with all the necessary parts to install this kit. Some items may differ from any items shown or depicted anywhere in these installation instructions. Items are subject to change without notice at anytime.

Installation:



Figure 2

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. 7/09

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- Figure 2 shows most of the basic tools needed to perform this installation. A 40 watt or higher soldering iron, rosin core solder, wire cutters, wire strippers, 8mm combination wrench, and a Phillips screw driver.

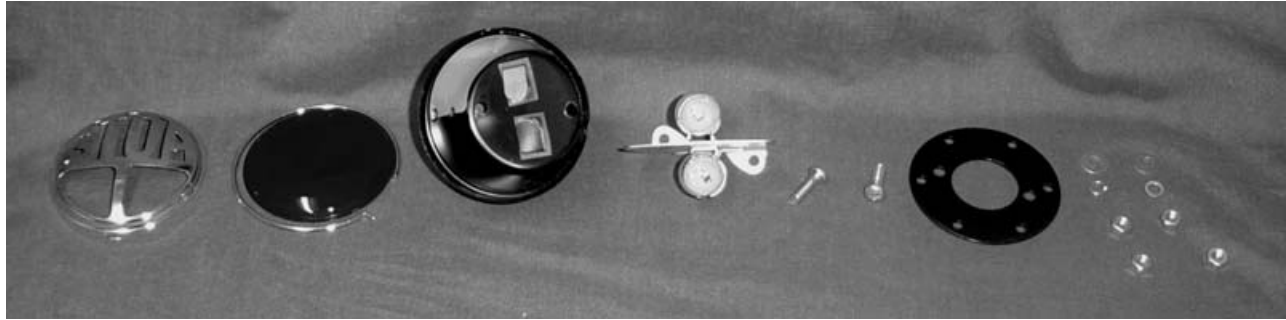


Figure 3

- Disassemble the Miller Stop Lamp assembly as shown in Figure 3. The divider plate with the bulbs will no longer be needed or used for this conversion. Please set this assembly aside or dispose of it properly.



Figure 4

- Locate the wire cable assembly from this kit and the Phillips screws removed earlier. Place one screw through the ring terminal (*Note: Removal of the paint under this screw maybe necessary or the use of an external star lock washer to insure a good ground connection*) and then install it into the housing as shown in Figure 4 (left). Place the other screw into the other hole of the housing. Install the mounting plate on to the back of the housing, then the flat washers, split washers (lock washers), and the hex nuts onto each screw as shown in Figure 4 (right). It is important that all hardware is properly tightened due to the amount of vibration that this assembly will be experiencing during its use.



Figure 5

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4. Remove the plastic window from the light assembly before starting to solder. Using the soldering iron, apply a fair amount of solder onto the 2 spring contacts top surfaces. Strip the insulation away from both the white and brown wires, about $\frac{3}{8}$ " {11mm} back and then apply some solder to the exposed wire (tinning the wire). Using the soldering iron, heat the spring contact and place the white wire on the top contact and the brown wire to the bottom contact. Note that the brown wire may need to be trimmed a little bit more and then stripped back to fit neatly as shown in Figure 5.

Beware of Rotating Spring Contacts. They may cause a short circuit after assembly has been completed.



Figure 6

5. Reinstall the plastic window piece into the housing. Plug the cable assembly connector from the housing onto the header on the back side of the LED Board as shown in Figure 6.

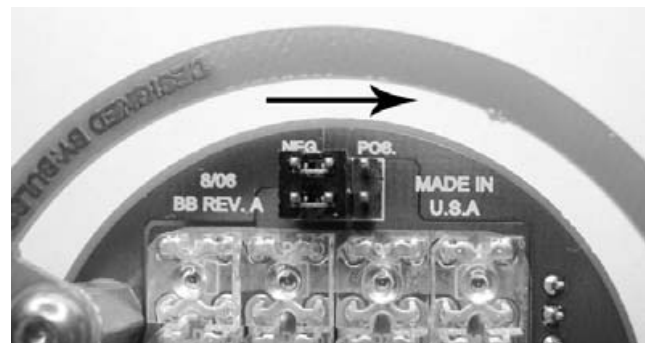


Figure 7

6. Prior to installing the LED Board into the housing, determine which grounding system your motorcycle is using. Remove shorting block from the pins and move it to the appropriate location for your grounding system type. Figure 7 (left) shows the ground connection for Positive Earth (ground) systems, while Figure 7 (right) shows the ground connection for Negative Ground systems. Install the LED Board into the housing after making your selection and after firmly pushing the shorting block down completely. ***Important Note: Make sure the gold contacts of the shorting block are set horizontally (left to right) for proper operation, as indicated by the arrows shown in both images in Figure 7. "Improper orientation of the shorting block may result in damage to the LED board, which will void the warranty."***

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Figure 8

7. Install the lens, grille, and the spring clip to complete the installation as shown in Figure 8. Your Miller Stop Lamp assembly has been successfully converted to a LED Stop Lamp.

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.

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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.