

## **Model: 679-SI "Self-Install" LED Taillight Conversion Kit** **679 Installation Instructions For Brit Bikes (1966 to 1972):**

Thank you for choosing this Bulbthatlast4ever™ LED Conversion Kit for your Lucas Taillight. This Kit has been designed for optimum installation in a reproduction Lucas style taillight assembly. Installation can also be performed into a genuine Lucas taillight assembly; however some of the steps outlined here may vary and may or may not require modifications to the LED Board to fit this type of light assembly. Modifications to the LED Board are not suggested and will affect your warranty, review the "Product Warranty Agreement" attached to these instructions for more details.

Before you start to install this LED Taillight Conversion Kit, carefully read and follow these installation instructions. Expect installation to take approximately 30 minutes, utilizing a #2 Philip screwdriver, 5/16" (8mm) combination wrench, hack-saw or rotary tool, set of pliers, and a set of jeweler's screwdrivers.

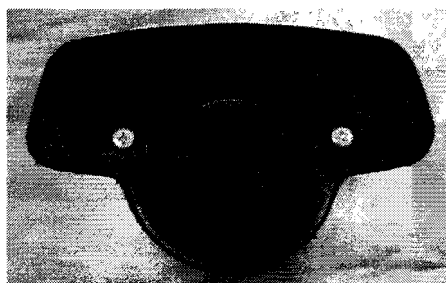
### **Getting Started:**

#### **Hardware Check List:**

1.  Qty 1, Wire Cable Set w/ 4.5 mm Bullet Connectors
2.  Qty 2, 10-32 x 7/8" Hex Screws
3.  Qty 2, 10-32 x 1 1/2" Hex Screws (Not Used)
4.  Qty 2, 10-32 Small Pattern Hex Nuts
5.  Qty 2, 3/16" Nylon Spacers
6.  Qty 2, 1/4" Nylon Spacers (Not Used)

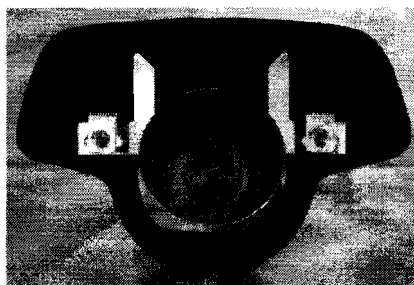
*Notes: This kit is supplied with all the necessary hardware to install this kit in either a 679 or 914 taillight assembly. There will be additional hardware left over after performing this installation!!!*

### **Installation:**



**Figure 1**

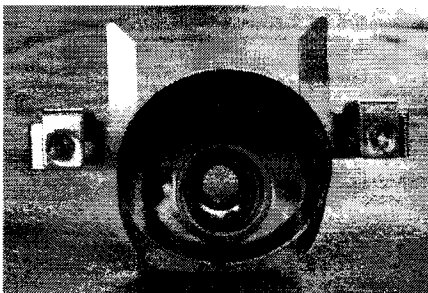
1. It is recommended that you first remove the taillight, which is to be converted from the motorcycle as shown in Figure 1. This will help the installation go along more smoothly.



**Figure 2**

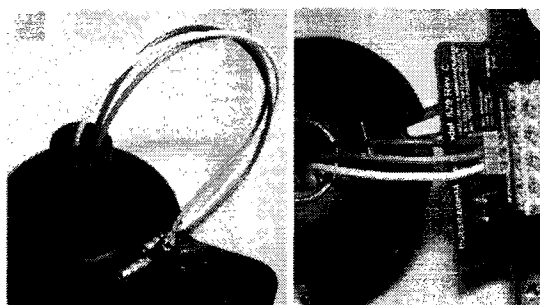
**Model: 679-SI "Self-Install" LED Taillight Conversion Kit**  
**679 Installation Instructions For Brit Bikes (1966 to 1972):**

- Remove the lens from the taillight assembly and all the hardware that secures the reflector assembly to the rubber backing pad. Refer to Figure 2 for more details.



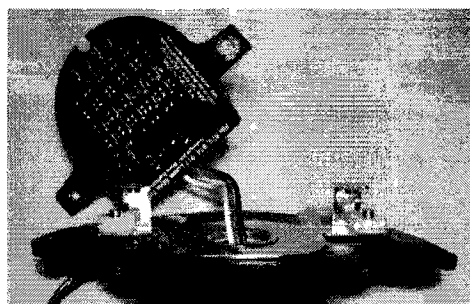
**Figure 3**

- Remove the reflector assembly from the rubber-backing pad, then the bulb and the wire assembly. Then cut a small slot into the reflector somewhere in the marked area shown in Figure 3, this will enable the removal of the reflector from the assembly. I personally use a set of electronic wire cutters to cut the reflector for this operation, a rotary tool (Dremel) with an abrasive cut-off wheel is highly recommended for this operation. Then reinstall the converted bracket assembly into the rubber backing plate.



**Figure 4**

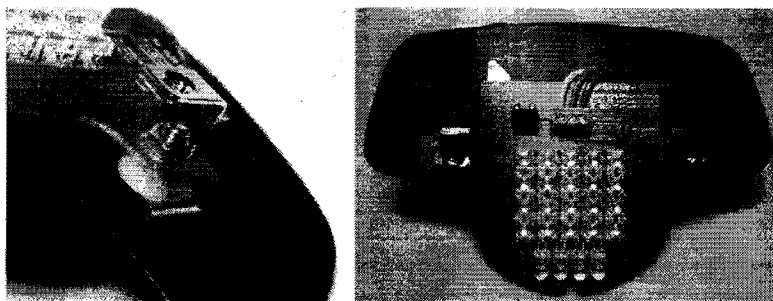
- Feed the preassembled wires into the back of the rubber backing plate; feed the White wire through the left hole and both the Brown and Green wires through the right hole as shown in Figure 4 (left). Continue to feed all the wires through so that they can reach the LED Board's terminal block. Insert the White wire into the left slot, the Green wire into the center slot, and the Brown wire into the right slot as shown in Figure 4 (right). Then tighten the terminal block screws to secure the wires using a flat-blade jeweler's screwdriver.



**Figure 5**

- Using the 10-32 x 7/8" Hex Screws pass them through the taillight's mounting plate or bracket assembly (not shown) first and then into the taillight assembly. Thread the screws in so that they are long enough to clear the height of the spacers. Then place the 3/16" Nylon Spacers onto each screw stud shown in Figure 5. Then place the LED Board onto the screw studs, carefully tucking the wires behind the LED Board.

**Model: 679-SI “Self-Install” LED Taillight Conversion Kit**  
**679 Installation Instructions For Brit Bikes (1966 to 1972):**



**Figure 6**

6. While holding the LED Board in position onto the screw studs, install the 10-32 Small Pattern Hex Nuts into each screw as shown in Figure 6 (left). Slowly turn the screws from behind the light assembly, start the nuts onto each screw. Once both nuts have been started onto the screws, tighten the screws against the mounting plate or bracket assembly first and then tighten the nuts, refer to Figure 6 (right) for more details.
7. Congratulations, your taillight assembly has been successfully converted to an ultra-bright LED Taillight. Please install the lens back onto the taillight assembly.
8. All there's left to do is connect the wires to your bike's wiring harness. Simply plug in the compatible bullet connectors into your existing Lucas wire harness, as per Table 1.

Cable Assy Color	Function	Lucas Harness
White	Brake Light	Brown
Brown	Running Light	Brown/Green
Green	(-/+ ) Ground	Red or Chassis

**Table 1**

**Warning:** Excessive lengths of time (no greater than 5 minutes at a time) during use in “Brake Light” mode may cause over-heating of the LED Board Assembly. This may cause damage directly to the LED Board or its components, which is not covered under the “Product Warranty Agreement”. Please verify that your electrical system in good operating condition, before use. It is also important to check the brake light switch for proper operation and adjustment.

**Issue Description:** Back of LED Board coming into contact with taillight assembly bracket causing possible short-circuit condition to system ground, which could possibly cause damage to the LED Board. This could render the LED non-functional, which may cause unsafe condition.

**Remedy:** Apply vinyl electrical insulating tape to the mounting bracket's surface to cover all metal in the shaded area shown in the image below, to create an insulated safe-zone prior to installing the LED Board to the mounting bracket.

