

TR6 Mod for LED Turn Signals (2016_11)

Converting the TR6 turn signals to LED lamps is more challenging than with other Triumph models. Triumph/Lucas wired the dash indicator across the turn signal switch. While this works with filament bulbs, it does not work with LEDs, since LEDs are directional. Installing an LED without modification will likely have the LED only work in one direction.

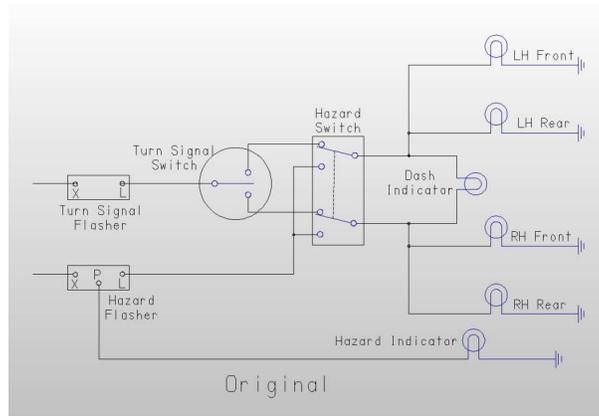


Figure 1 - Original wiring

We suggest the following. A simple modification with steering diodes will correct the problem.

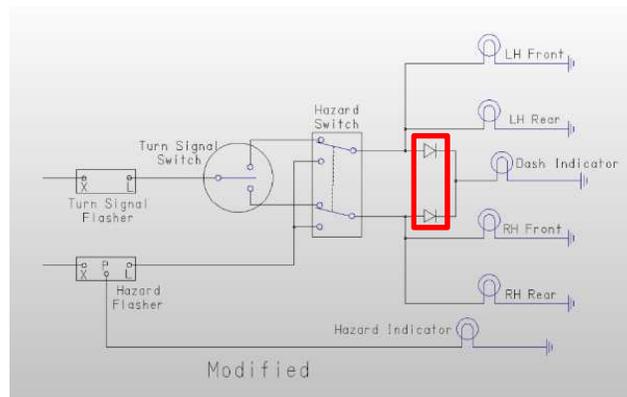


Figure 2 – Modified with steering diodes

The wires from left and right side of the turn signal switch already go to the dash indicator. Adding 1 amp diodes (Litezup LDB1) in the circuit will allow the LED to work properly. The other side of the socket is connected to ground. Any chassis ground should work.

Note: If using all LEDs (both front and rear), the flashers will also have to be changed because the LED's do not draw enough current to make the bi-metallic flashers operate properly. Typically, if you are only using LEDs in the rear and filament bulbs in the front, your bi-metallic flasher should work properly, i.e., no electronic flasher needed.

Adding Steering diodes for LED Triumph turn signal indicator

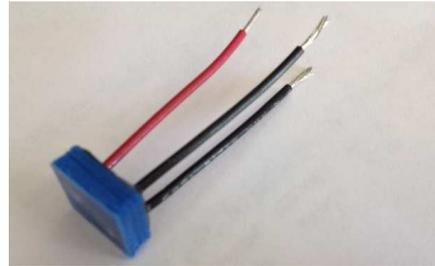
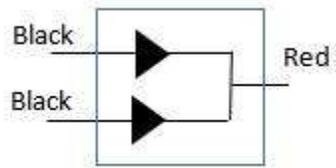


Fig 3 – Diode Bridge Schematic and physical part

Procedure:

1. Disconnect power from the battery.
2. Locate Turn Signal indicator socket and pull out from speedometer Fig.4.



Figure 4

3. While leaving a workable length of wire out of the socket, cut the socket out of the circuit Fig. 5.
Note: Typical Triumph wiring has the Green/Red going to the Left indicator and the Green/White going to the Right indicator. The socket mounting fingers are actually isolated from ground.



Figure 5

4. Connect center conductor of socket which is Green/White to red wire (cathode) of diode bridge Fig 6.
5. Connect diode bridge black wires to the turn switch wires that were cut under dash - anode 1 black to Green/White and anode 2 black to Green/Red Fig 6
6. Connect Green/Red wire of socket to Frame ground. Note you may need to add a length of wire to the Green/Red wire to insure a proper ground.

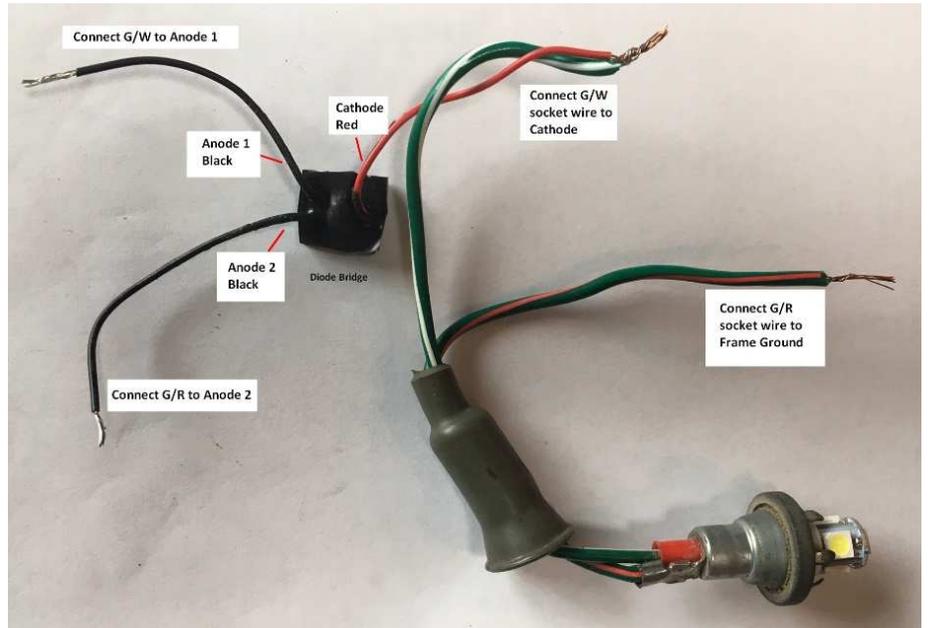


Figure 6

7. When complete the installation will have the electrical connection as shown in Fig 7.
8. Reconnect battery and test.

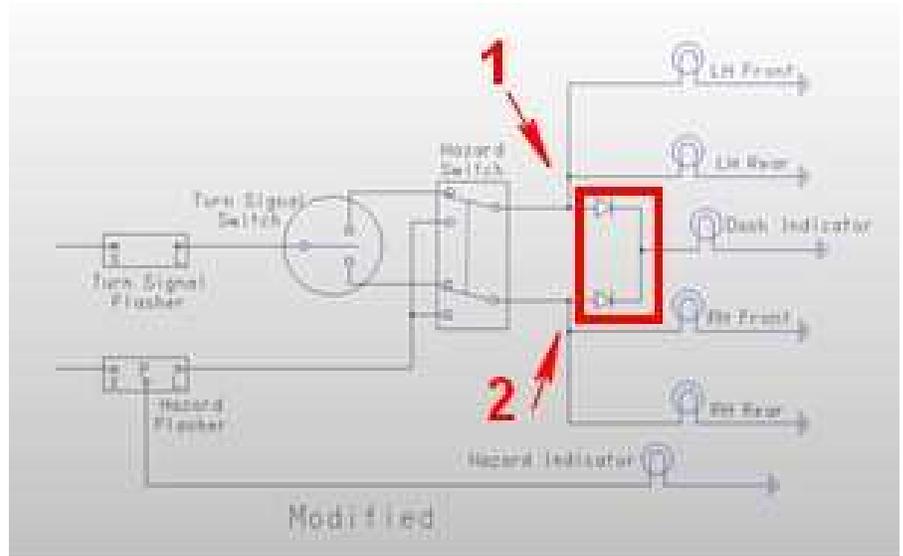


Figure 7

Contact sales@litezupp.com

if you have any questions.

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