TR6 Mod for LED Turn Signals (2020_4)

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.

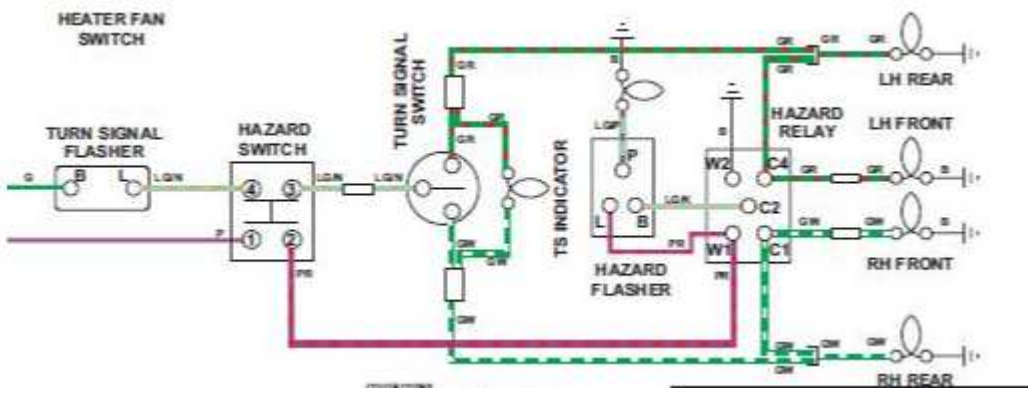

Figure 1 - Original wiring Early TR6

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

Note the dash turn lamp socket has two wires, Green/Red and Green/White. The socket is isolated from ground with a plastic ring by the clip pins. The socket is first cut out of the circuit, the diode bridge black wires are connected as shown, the diode bridge red wire is connected to the socket Green/white wire and the Socket Green/Red wire is connected to ground.

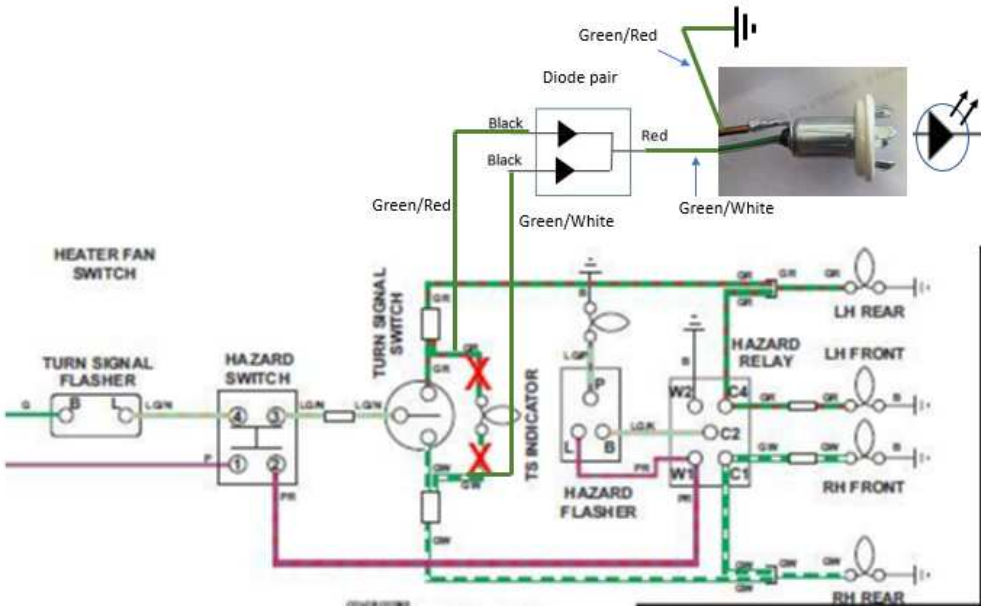

Figure 2 – Modified with steering diodes

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Adding Steering diodes for LED Triumph turn signal indicator

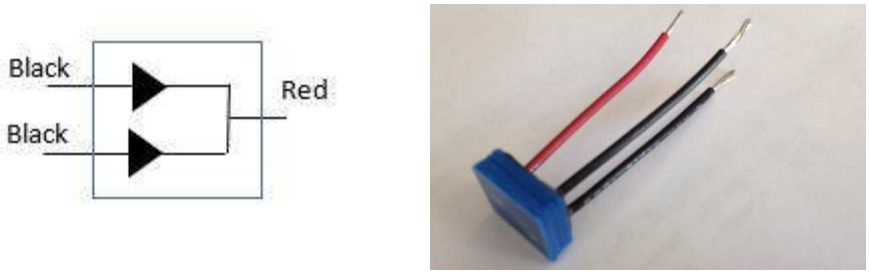

Fig. 3 Diode Bridge Schematic and physical part

Procedure:

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

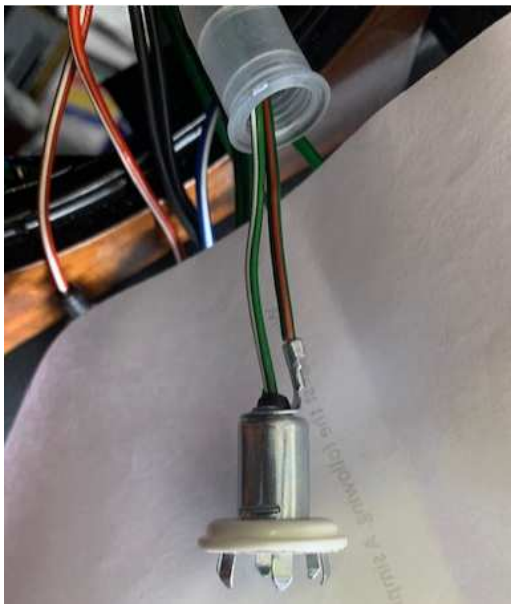

Figure 4

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.

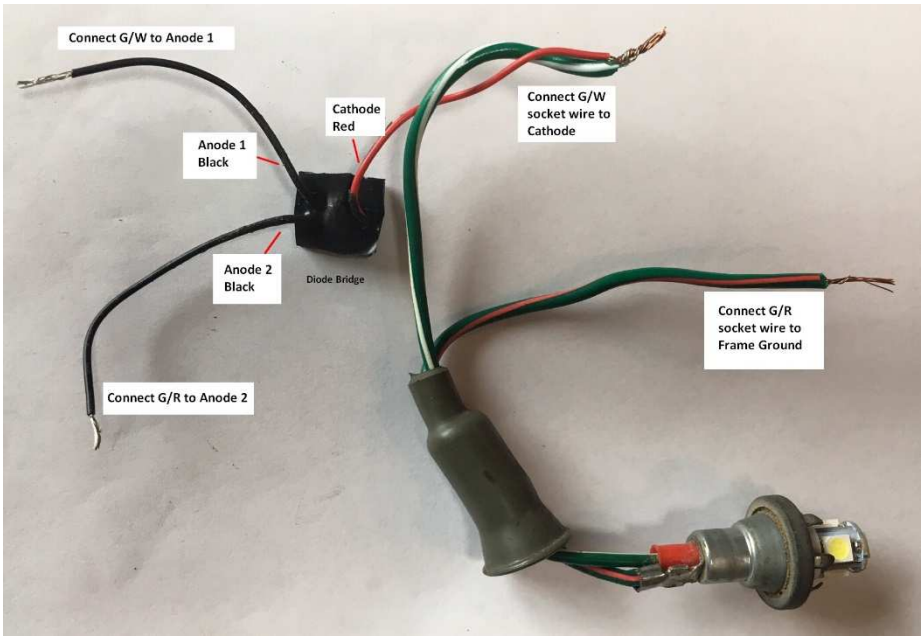

Figure 6

7. When complete the installation will have the electrical connection as shown in Fig 2.

8. Reconnect battery and test

9. Contact sales@litezupp.com if you have any questions.

Updated 2020_4