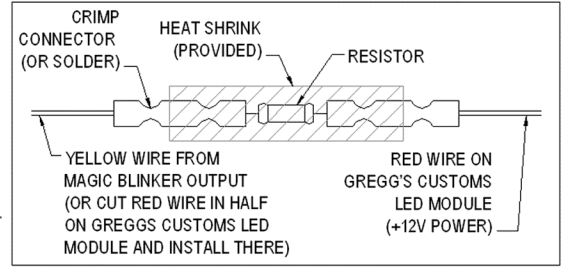


# CUSTOM LED MAGIC BLINKER INSTALLATION INSTRUCTIONS

## GREGG'S CUSTOMS LED HOOKUP INSTRUCTIONS

IN ORDER TO ENSURE THE LONGEVITY AND CONTROL HEAT BUILDUP WHEN USING THE GREGG'S CUSTOMS LED MODULES AS RUNNING LIGHTS, IT IS NECESSARY TO INSTALL A RESISTOR IN-LINE (SERIES) WITH THE +12V POWER WIRE ON THE LED MODULE (NORMALLY RED) AS SHOWN TO THE RIGHT. THE PROPER SIZE RESISTOR HAS BEEN PROVIDED WITH THIS KIT. SOLDER OR CRIMP THIS RESISTOR SO IT CONNECTS THE YELLOW WIRE ON THE MAGIC BLINKER TO THE RED WIRE (VERIFY COLOR) ON THE GREGG'S CUSTOMS LED MODULE (AND ONLY TO THE GREGG'S CUSTOMS MODULE IF YOU HAVE OTHER OPERATED LOADS). HEAT SHRINK THIS CONNECTION AS SHOWN ON THE RIGHT FOR A TROUBLE FREE INSTALL.



## INPUT LEADS

### RED: POWER SOURCE +12V

IN MOST CASES YOU WILL CONNECT THIS WIRE TO AN IGNITION SWITCHED SOURCE SUCH AS THE RUNNING LIGHT LEAD. **NOTE:** THIS SOURCE MUST BE CAPABLE OF DELIVERING ENOUGH CURRENT TO DRIVE ALL THE LOADS ATTACHED TO THE OUTPUT OF THE MAGIC BLINKER.

### WHITE: BLINK SIGNAL +12V

IN MOST CASES YOU WILL CONNECT THIS WIRE TO THE BLINKER WIRE. THIS LINE DRAWS APPROXIMATELY 50mA (VERY LOW CURRENT) UNDER NORMAL OPERATION. **NOTE:** IF YOU ARE USING "CUSTOM LED LOAD EQUALIZERS" TO SLOW YOUR BLINK RATE, CONNECT THEM BETWEEN THIS WIRE AND THE BLACK WIRE.

### BLACK: COMMON GROUND

IN MOST CASES YOU WILL CONNECT THIS WIRE TO A GROUND SOURCE SUCH AS THE STOCK BLINKER GROUND WIRE. **NOTE:** THIS SOURCE MUST BE CAPABLE OF DELIVERING ENOUGH CURRENT TO DRIVE ALL THE LOADS ATTACHED TO THE OUTPUT OF THE MAGIC BLINKER.

## OUTPUT LEADS

### YELLOW: NORMALLY "ON" +12V POWER

IN MOST CASES YOU WILL CONNECT THIS WIRE TO THE INDICATOR LAMP(S) YOU WISH TO FUNCTION AS RUNNING LIGHTS AND BLINKERS (FOR TYPICAL APPLICATIONS). THE VOLTAGE ON THIS LINE WILL BE INTERRUPTED (0V) WHEN AND FOR THE DURATION THAT THE WHITE WIRE IS SUBJECT TO 12V.

### BLUE: NORMALLY "OFF" +12V POWER

THIS OUTPUT IS PROVIDED TO MAKE THE MAGIC BLINKER EXTREMELY VERSATILE. THE VOLTAGE ON THIS LINE WILL FOLLOW THAT OF THE WHITE INPUT WIRE. THE VOLTAGE ON THIS LINE WILL BE 12V WHEN AND FOR THE DURATION THAT THE WHITE WIRE IS SUBJECT TO 12V. IN MOST CASES YOU WILL NOT USE THIS WIRE.

### BLACK: COMMON GROUND

THIS IS THE GROUND WIRE FOR YOUR OPERATED DEVICES (LAMPS).

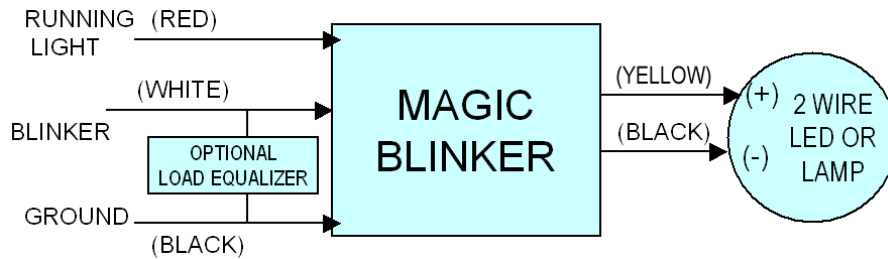
### ELECTRICAL SPECIFICATIONS:

MAXIMUM SWITCHING CURRENT: 5A

MAXIMUM COIL VOLTAGE (WHITE WIRE): 15.6 VDC

MINIMUM OPERATIONS: 10<sup>5</sup> ELECTRICAL, 10<sup>7</sup> MECHANICAL

## TYPICAL INSTALLATION DIAGRAM



**NOTE:** FOR GREGG'S CUSTOMS, SEE ADDITIONAL INFORMATION ABOVE!  
BE SURE TO NEATLY SNIP AND TAPE OFF THE BLUE OUTPUT WIRE IF NOT IN USE. FAILURE TO DO SO MAY DAMAGE OR DESTROY THE MAGIC BLINKER.

### TROUBLESHOOTING:

**PROBLEM:** YOU INSTALLED THE CUSTOM LED MAGIC BLINKER AS THE INSTRUCTIONS SAY BUT THE BLINKERS BLINK ONCE THEN STOP OR THEY DON'T BLINK AT ALL OR THEY BLINK TOO FAST.

**CAUSE:** THE STOCK FLASHER RELAYS ON OUR CARS AND MOTORCYCLES - WHICH ARE THE DEVICES THAT MAKE BLINKERS "BLINK" - ARE DESIGNED TO BLINK TWICE AS FAST AS NORMAL WHEN A BULB IS BURNED OUT. THIS IS TO LET THE OPERATOR KNOW THAT THERE IS A BLINKER BULB BURNED OUT. UNFORTUNATELY, MOST AFTER MARKET BLINKER PRODUCTS (INCLUDING CUSTOM LED PRODUCTS) CONSUME SO LITTLE POWER COMPARED TO THE STOCK BULBS, THAT THE FLASHER RELAY THINKS THAT A BULB IS OUT WHEN THIS IS NOT THE CASE. SOMETIMES, THE POWER CONSUMED IS SO LITTLE, THAT THE BLINKERS DON'T EVEN BLINK AT ALL!

**SOLUTION:** SIMPLY REPLACE THE FLASHER RELAY WITH ONE THAT IS NOT DESIGNED WITH A "BULB OUT NOTIFICATION OR YOU COULD INSTALL A CUSTOM LED LOAD EQUALIZER. THE CUSTOM LED LOAD EQUALIZERS COME IN VARIOUS SIZES FOR DIFFERENT APPLICATIONS. VISIT [WWW.CUSTOMLED.COM](http://WWW.CUSTOMLED.COM) FOR MORE INFORMATION. (REMEMBER, ALL POWER TO RUN THE LOADS ON THE OUTPUT SIDE OF THE MAGIC BLINKER IS DRAWN FROM THE RED WIRE ON THE MAGIC BLINKER - THE WHITE WIRE ONLY DRAWS 50mA. (APPROXIMATELY 0.6 W).

FOR ALL OTHER INQUIRIES AND TECHNICAL SUPPORT, PLEASE CONTACT: YOUR VENDOR, [WWW.TOBEFAST.COM](http://WWW.TOBEFAST.COM), [STREETBIKES@TOBEFAST.COM](mailto:STREETBIKES@TOBEFAST.COM) OR [SUPPORT@CUSTOMLED.COM](mailto:SUPPORT@CUSTOMLED.COM).