

DIY LED Flasher Relay for K75s, K100s, K1s & K11000s

The stock flasher relay on K bikes does not work with LED turn signal bulbs so I decided to build my own for about \$40 in parts. (I later discovered that the Kisan SignalMinder SM-6 is LED friendly so if you're looking for a plug-n-play solution that would be the way to go.

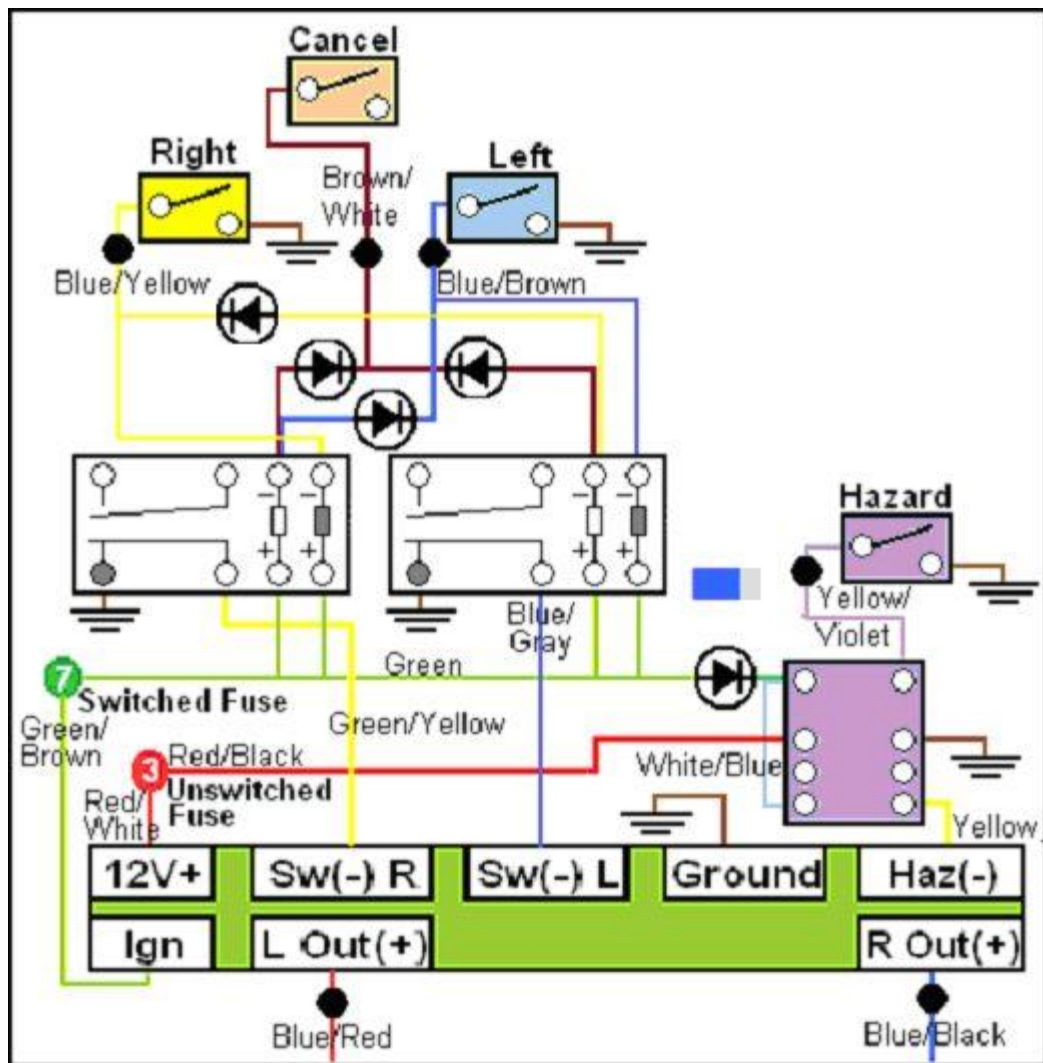
Link: https://www.kisantech.com/view_product.php?product=SM-6)

This relay operates just like the factory relay with the exception that it does not auto-cancel your turn signals after about 210 meters. (Which I never liked anyhow.)

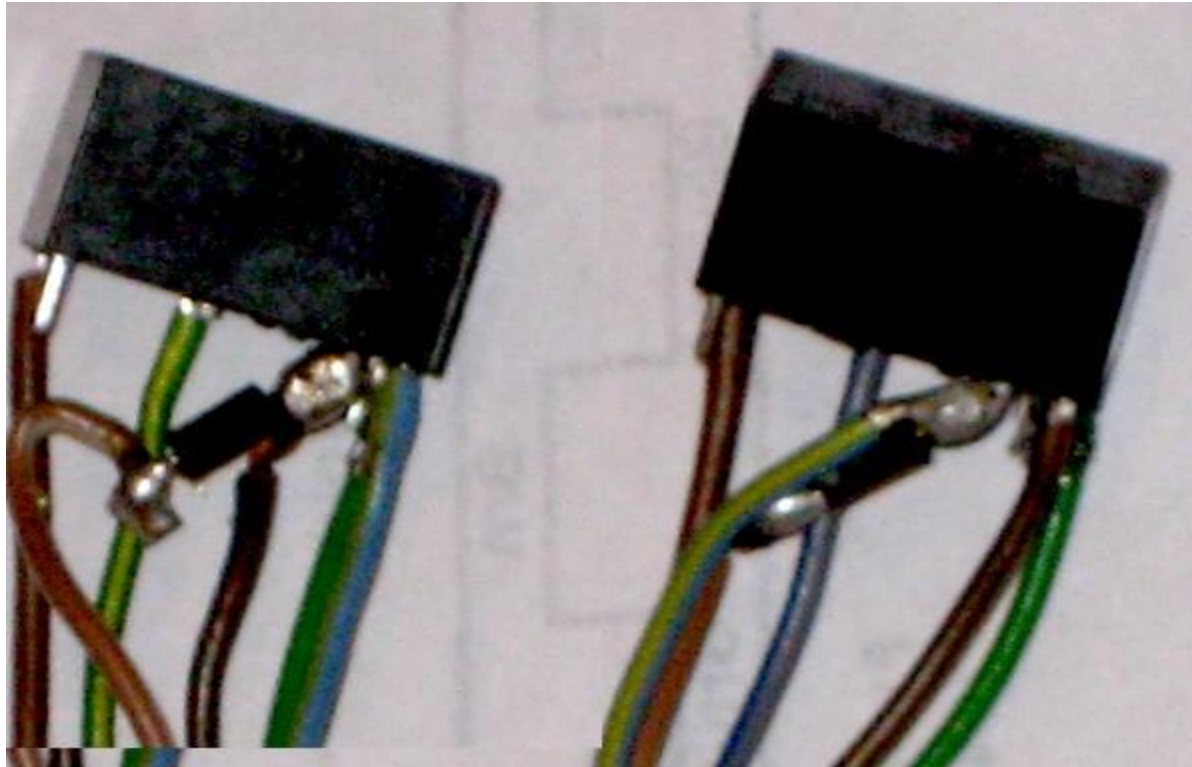
What's needed:

1. Two PCB(printed circuit board) 12V latching relays: <http://www.futurlec.com/Relays/LATCHREL12V.shtml>
2. Five 12V diodes from radio shack: <http://www.radioshack.com/product/index.jsp?productId=2049725>
3. One 12V DPDT PCB relay (generic item) so you can turn the hazards on while the bike is turned on but not while it's off. (Similar to how the factory flasher relay works.)
4. Toyota LED flasher relay: CF18-08

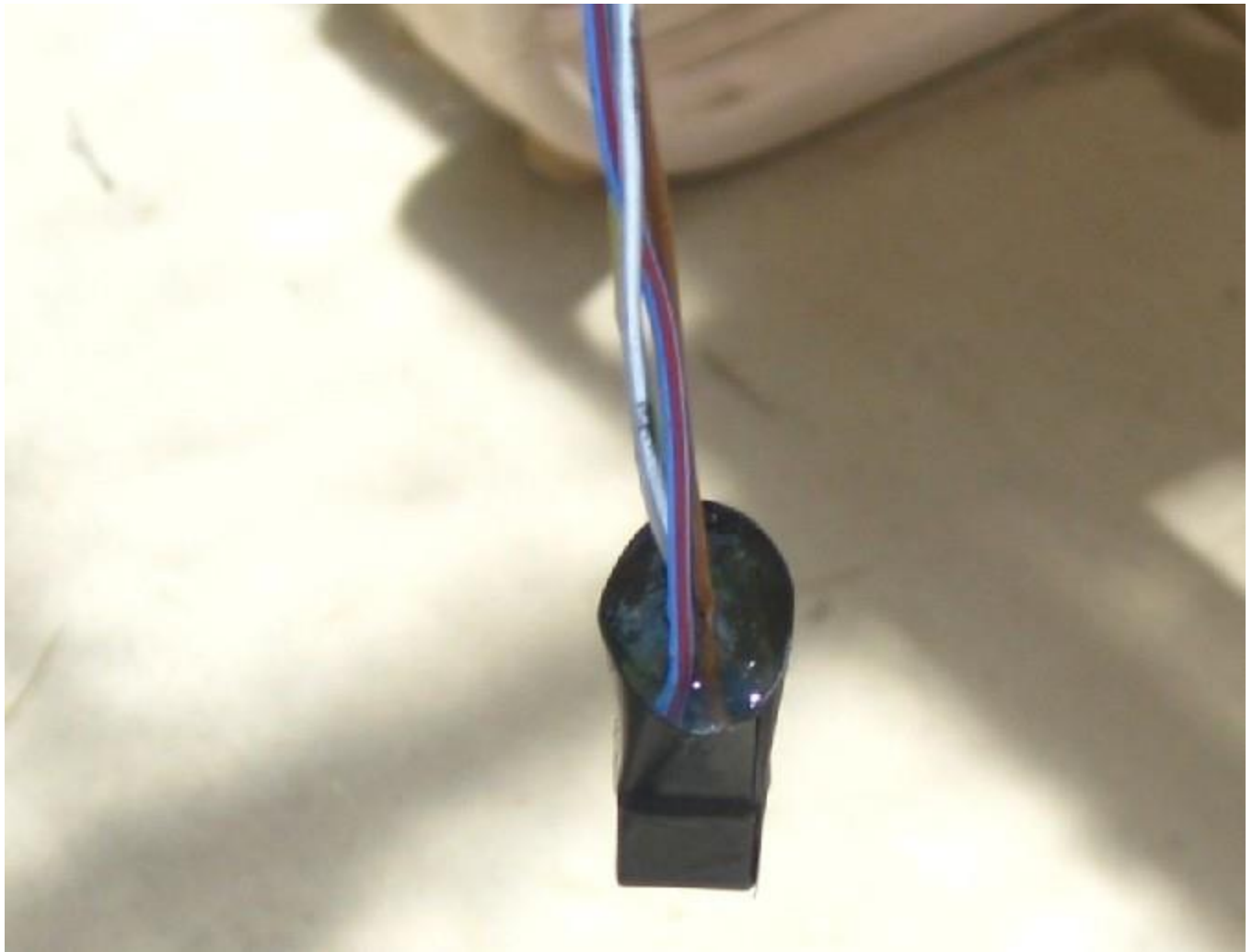
Here's the wiring diagram:



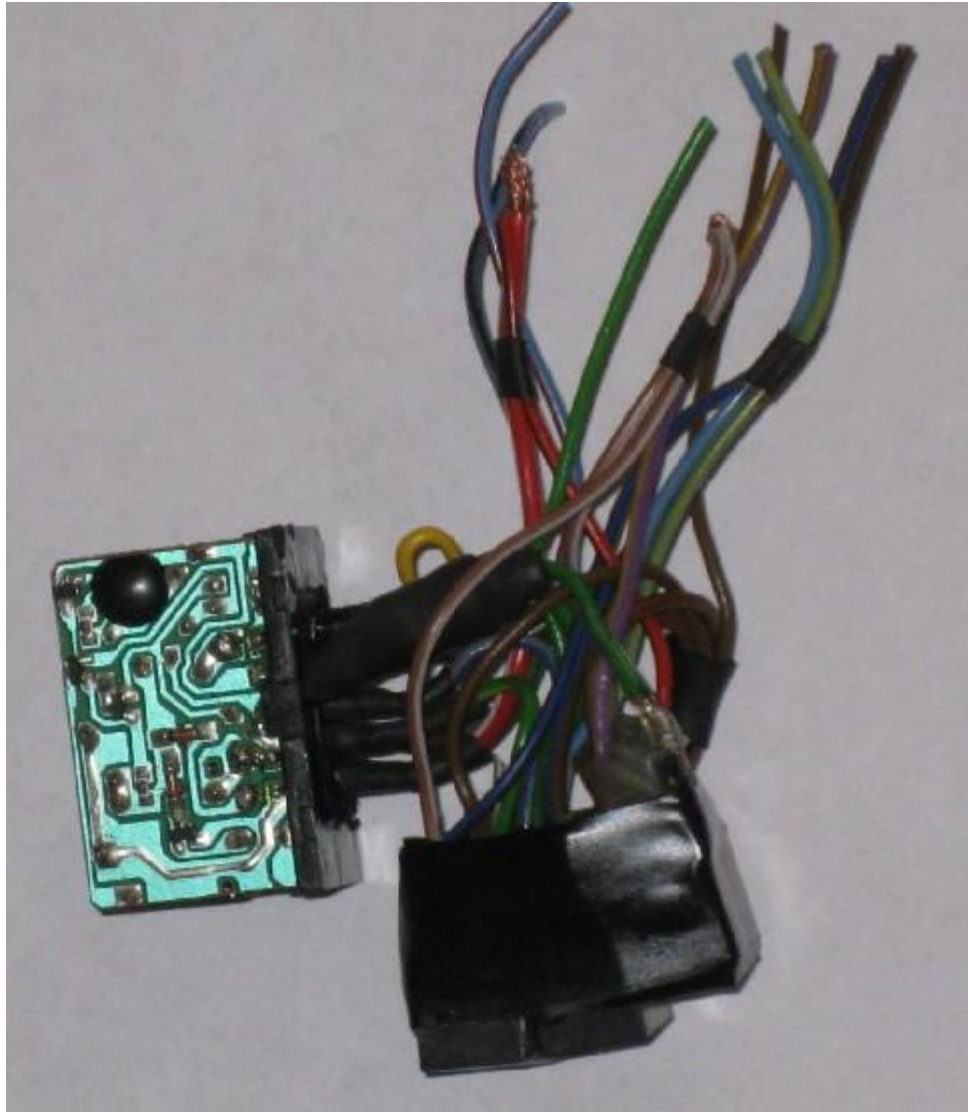
Step 1: Solder wiring and diodes to the individual relays.



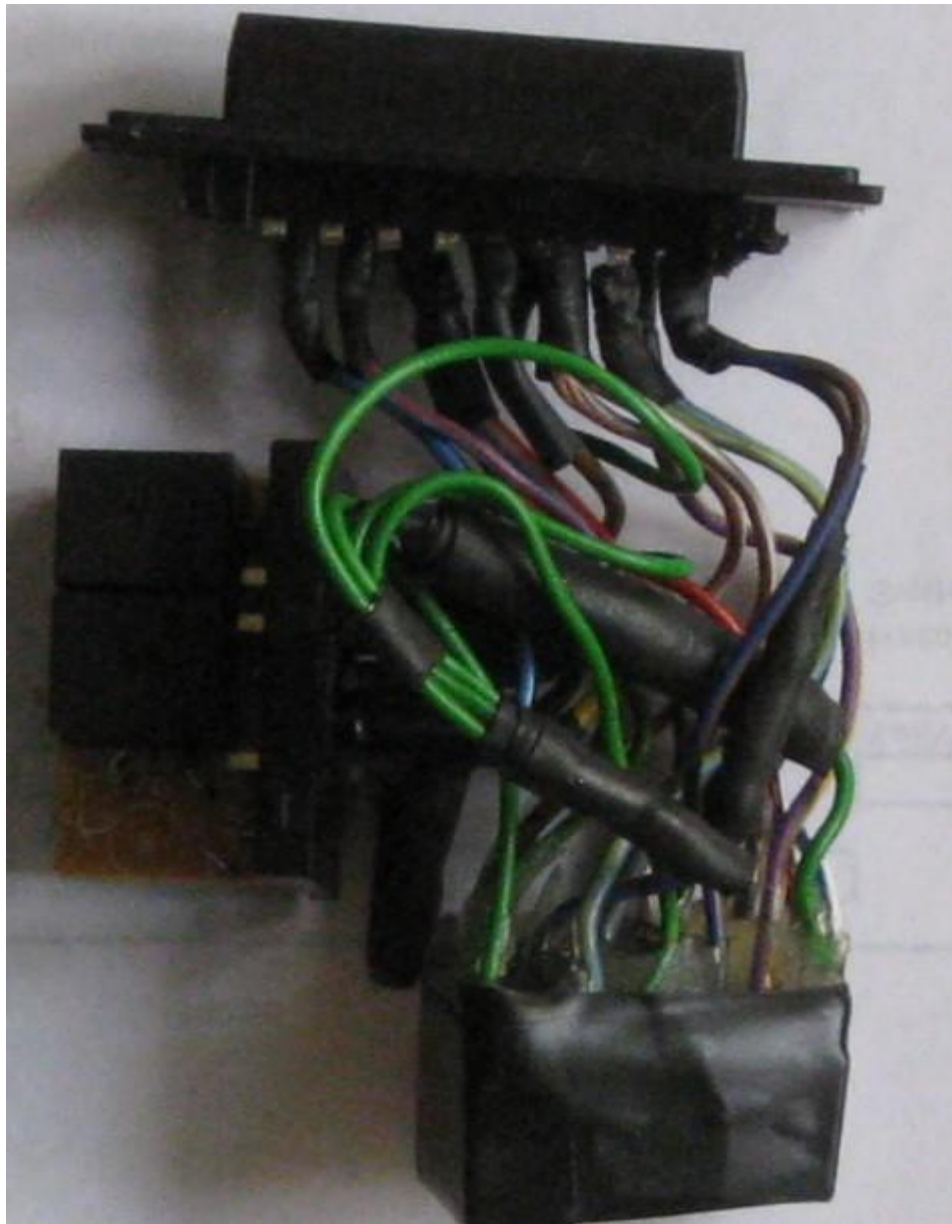
Step 2: Wrap the relays in electrical tape and then fill that with 5-minute epoxy to keep the terminals from breaking off as well as waterproofing and insulating your soldering connections.



Step 3: Place something between the relays to keep them apart (I use small sections of popsicle stick) and then tape them together. Then solder those up to the Toyota flasher relay.

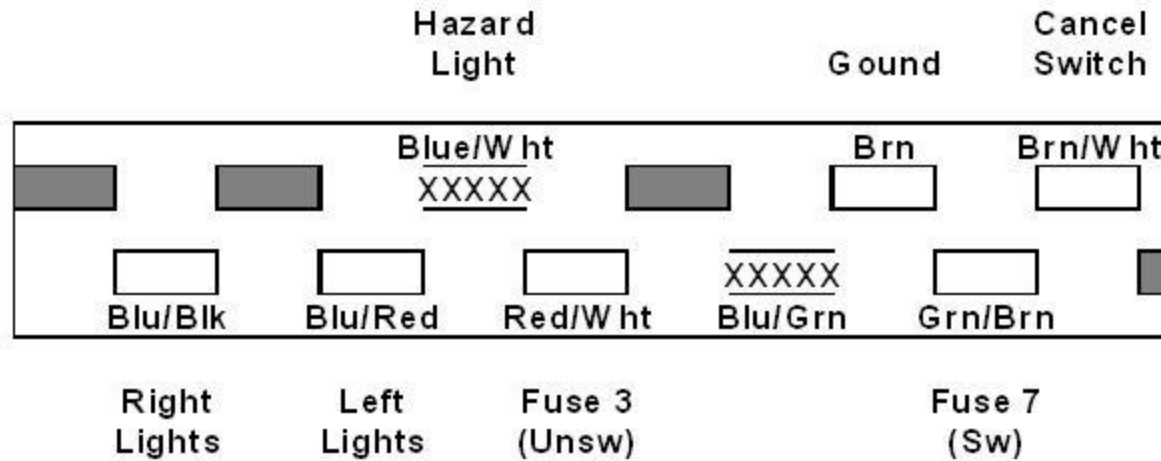


Step 4: If you kept things small enough then your DIY flasher circuit will fit into the housing for the original flasher relay that came with the bike. Cut the circuit board off of the terminals and then solder your DIY flasher circuit to those terminals.

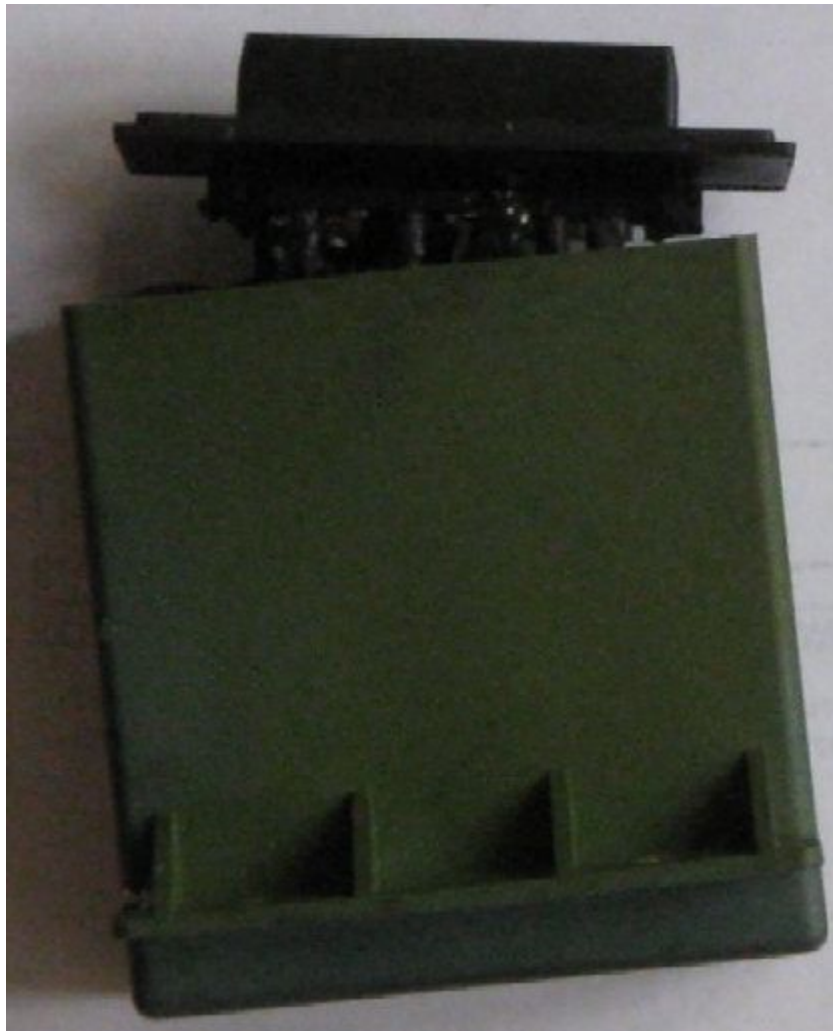


Flasher relay pinout:

Looking at wiring harness connector:



Step 5: Insert your flasher circuit into the flasher relay housing and install it on your bike. (Your housing may be black, not green, if you have a later model K bike but they're the same relay.)



LED Bulbs: I've experimented with numerous types of 1156 LED bulbs for K bike turn signals and have come to the conclusion that **amber** 18 SMD LED 1156 bulbs work the best in K bike turn signals. Easy to find for a low price on Fleabay.



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