

Towing and Reversing Beeper

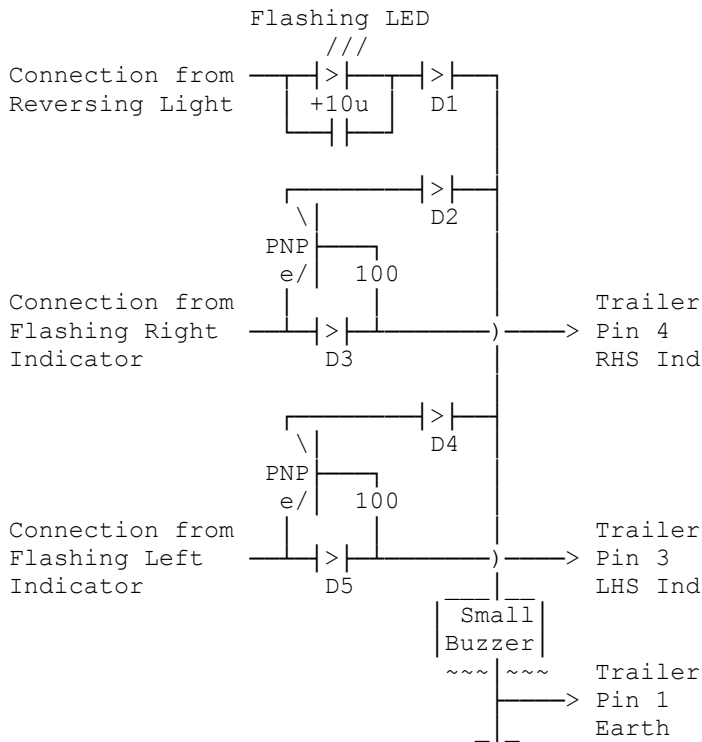
By G8MNY

(New Sep 08)

Here is a circuit I used, originally based on a trailer indicator warning kit.

WHAT IT DOES

Normally it just beeps if there is a trailer lamp connected & an indicator is powered (UK tow regulation). I modified the original unit to also beep as an added safety feature, if I was reversing (with or without a trailer).



HOW IT WORKS

The trailer lamps are powered via power diodes D3 & D5 (1N5401) & the voltage drop across these turns on either of the 2 small PNP transistor to power the small buzzer via a low power steering diode D2 or D4 diode (1N4001).

The additional reversing beeper uses a flashing LED in series with buzzer & a diode to give the same effect, this time as public warning. The 10uF capacitor is needed to stop the buzzer AC pulses affecting the LED internal timer.

The flashing LED is the smallest flasher unit of its size & I have made use of it in several applications now.

LOCATION

This circuit is located at the rear, behind one of the lights clusters as it needs to be connected to both indicators & a reversing light feed, & be audible both in the driver & nearby pedestrians.

Also see Fred G4VVQ's TECH bul "Towing Socket For Caravans" that I put out.

Why Don't U send an interesting bul?  
73 De John, G8MNY @ GB7CIP