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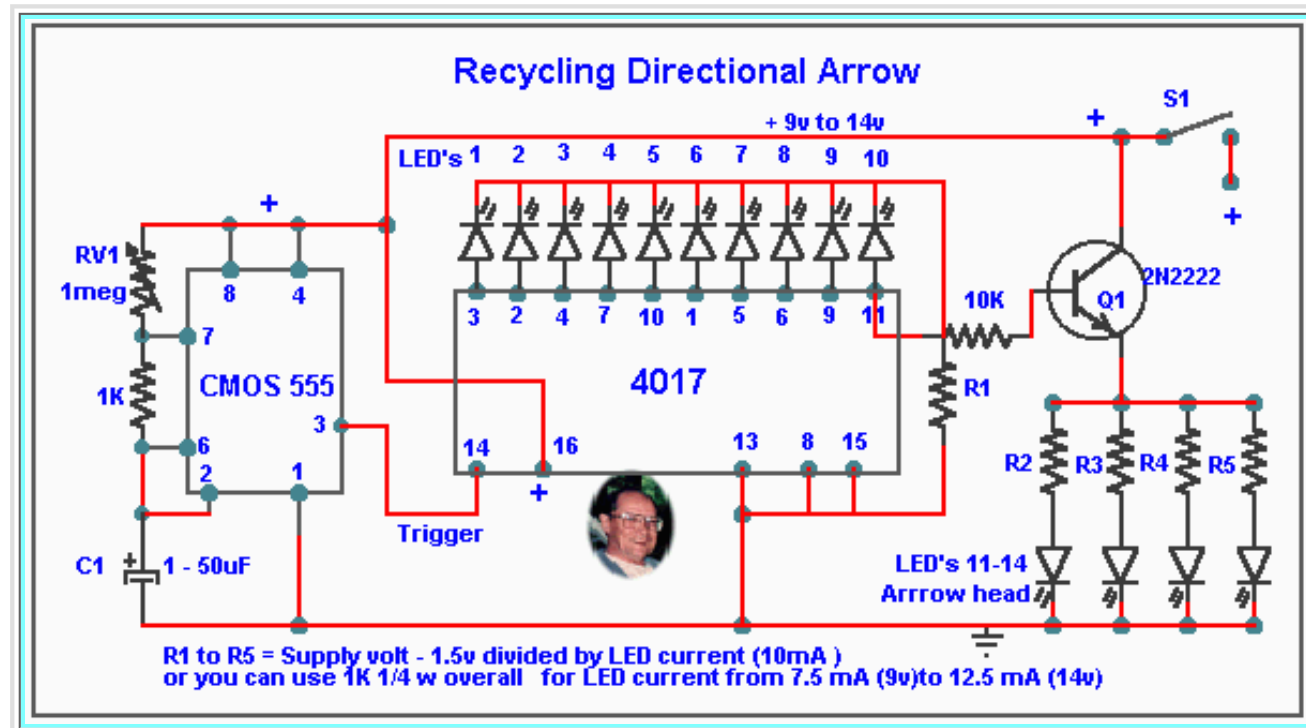
Sequential Flashing Arrow

Introduction

The CMOS-4017 Decade Counter/Decoder is used as the main component to sequentially light a string of LEDs forming a directional arrow . You might like to get acquainted the functions of this IC by going to [page 34](#) and click "Back" to return to this page .

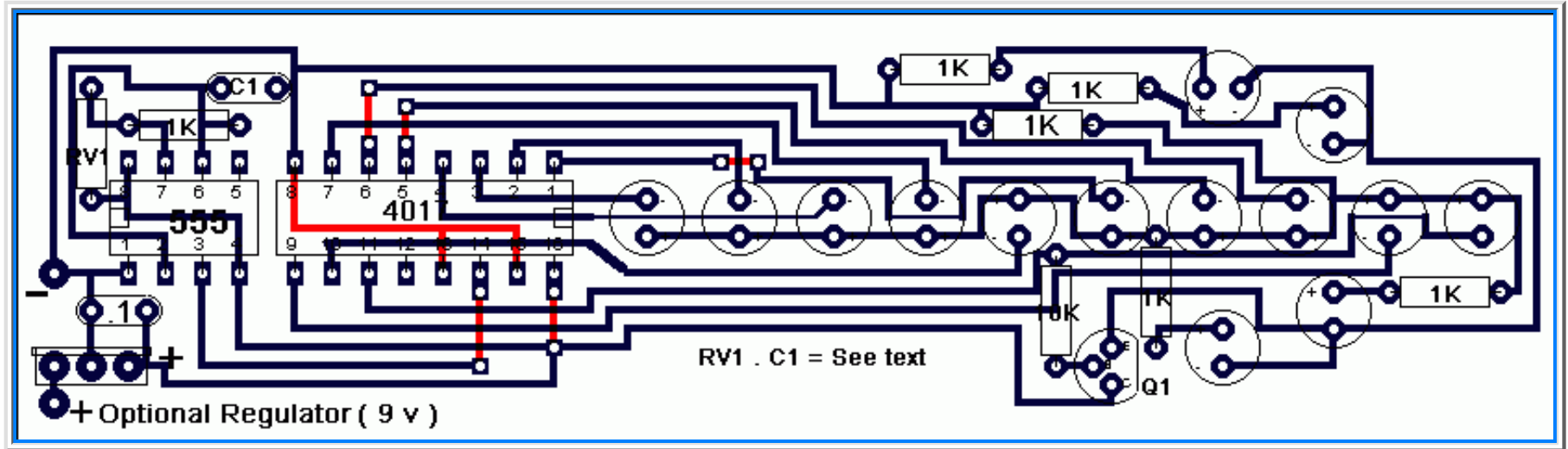
This circuit is designed to operate from a supply source of 9 to 14 volts . The overall current requirement will be less than 100 mA . It can be used as a directional indicator for a car with the circuit supply voltage connected in parrallel with the car direction lighting wiring system . Because of the fluctuating car voltage from 12 to 14.5 volts alternator voltage , it is strongly recommended that a 9Volts regulator IC rated at 1.5 A be used . The PCB shown provide for this option as well as the .1 capacitor used as a filter .

The Basic Circuit

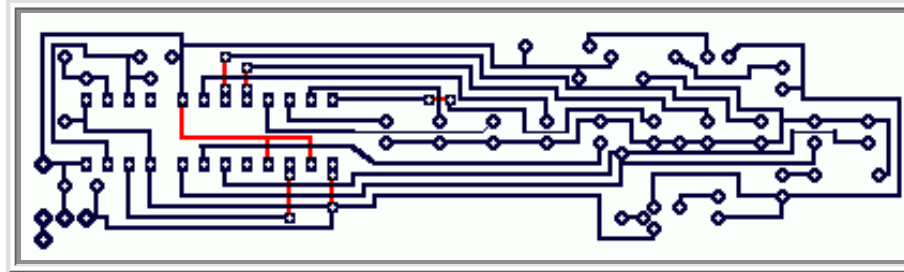
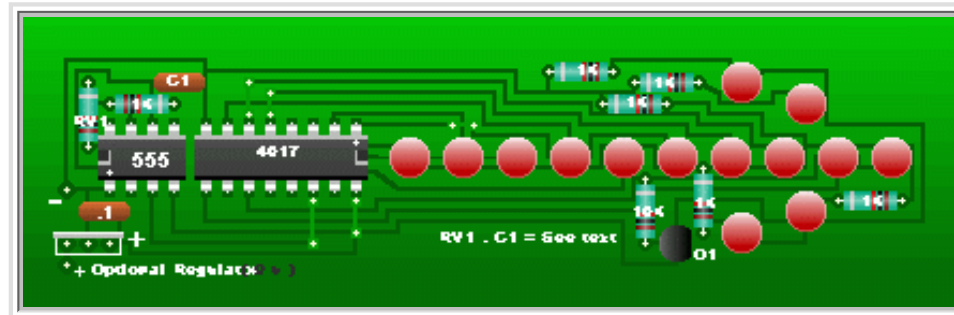


Chose a capacitor between 1 and 50uF for C1 and adjust RV1 to the sequential flashing speed you prefer after which you can substitute RV1 resistance reading with a fixed 1/4w resistance .

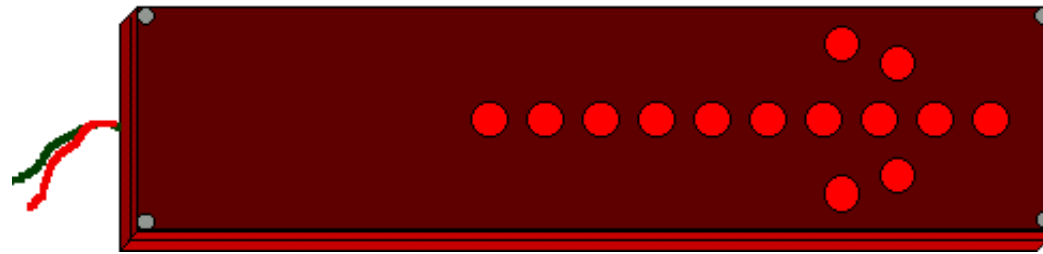
The Circuit Layout (Double size)



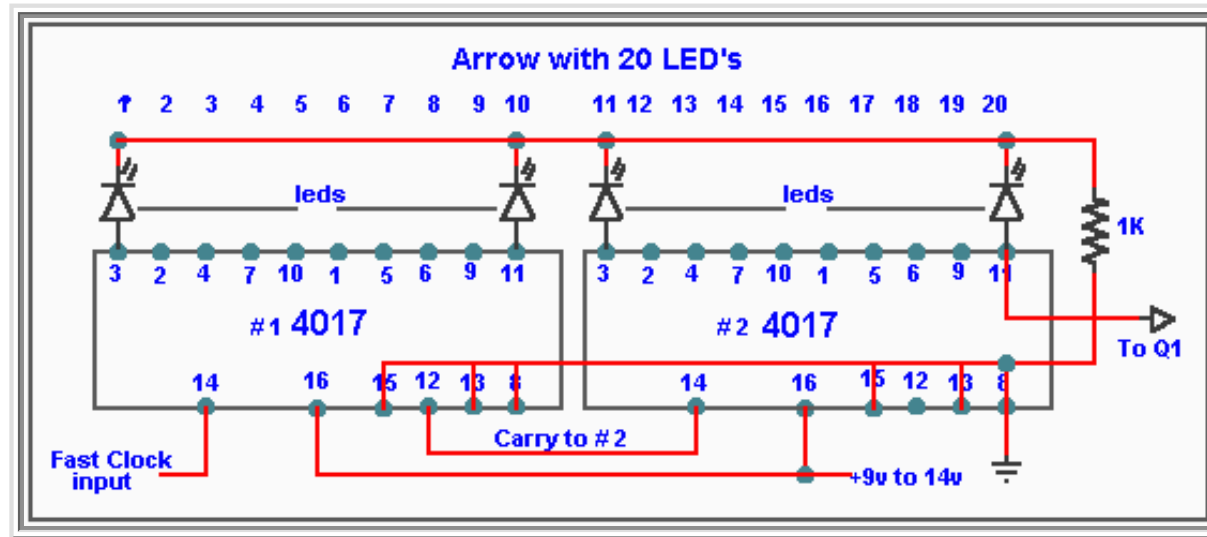
Actual size of finished circuit and PCB layout



A suggested finished arrow mounted in a case with a red filter , actual size .



You can double the length of the arrow with the circuit below by adding a second 4017 counter



You can download [Data Sheets](#) for the CMOS ICs used in this circuit .

If you have any comments or questions email me at :
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