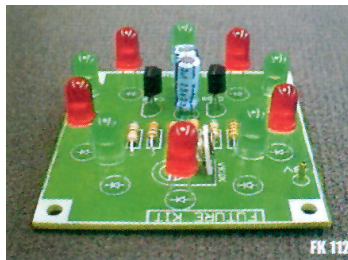


FK112 10 LED FLASHER

The LED's alternate between two sets of 5 LED's.

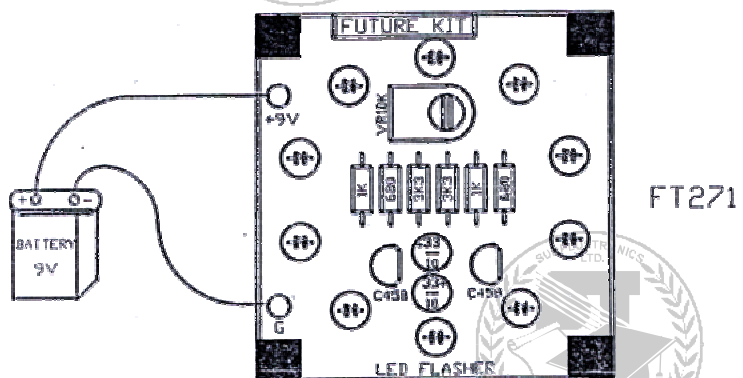
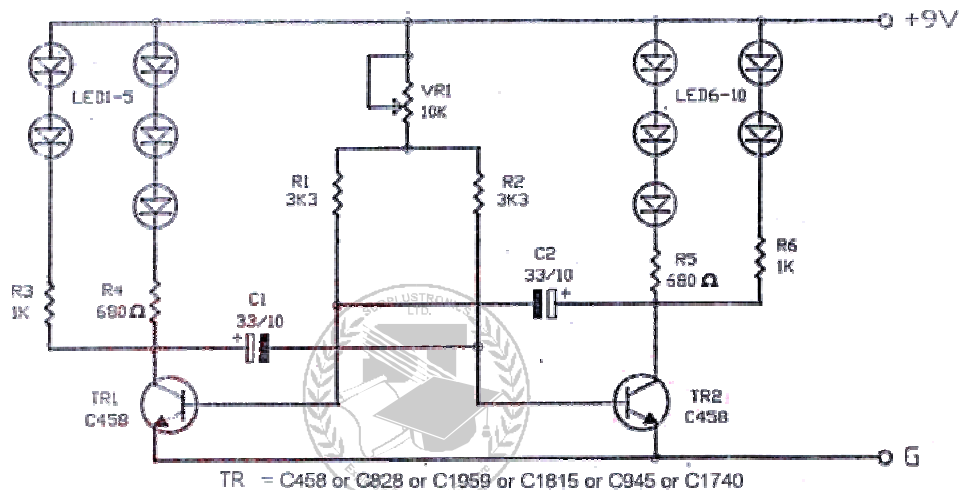
This circuit requires 1 x 9 volt cell

Basically the circuit is a 2 transistor multi-vibrator or flip-flop. In this application TR1 and TR2 alternate their output causing LED's 1-5 or LED's 6 -10 to work. The speed of the flashing depends on the setting of VR1, and the value of R2, C1 and C2



In the assembly of this kit, like most others in the "Future Kit" range, it is best to start by first checking that you have all the components. The attaching them in order of their height from the board. I.e. resistors first and so on. The last items that should be attached however should always be any semiconductors including transistors. This avoids unnecessary heat on sensitive components.

The PCB or 'printed circuit board' will be marked already for the components. If polarity is essential then this is marked also. Values of components marked are brief and because of the translation are sometimes incorrect, therefore it is best to double check before placing.



Component list:

R1	3,300 ohm (3.3K)
R2	3,300 ohm (3.3K)
R3 & 6	1K ohm (1000 ohm)
R4 & 5	680 ohm
VR1	10K variable trim pot
C1 & 2	10v 33µF electrolytic
C2	10v 33µF electrolytic
TR1	C945 (marked 458)
TR2	C945 (marked 458)
LED1 – 10	5mm Red / Green standard

Suits age 11+