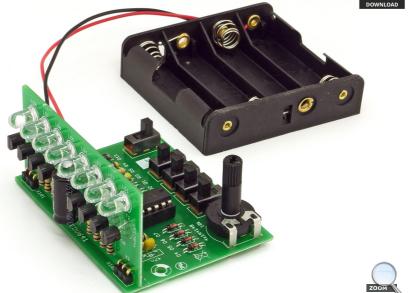
LFD Disco Strobe **Educational Soldering Kit**







AVT EDU641





Driven by our love of the craziness of the carnival and our passion for soldering, we propose the installation of one of several 'light' kits - the Disco Strobe. It will work well not only during the winter ball period, but also at any good party.

The unit produces strong flashes of light at a rhythm set by the user. Original lighting effect was achieved by using high-brightness white LEDs. The circuit is very simple to mount and will not require any start-up procedures. Sequences of the flashes generated are determined by a set of switches. Four of them allow up to sixteen light combinations.

Specifications

- light source super-bright white LEDs
- · infinitely adjustable flash rate
- 16 light combinations
- · long operation on batteries
- supply: 6 VDC [4×AA] batteries not included
- board sizes: 32×69 mm and 61×69 mm

Caution!

Device produces very strong flashes of light. Although they are not laser diodes, looking at the diodes from a short distance should be avoided, as this can cause visual fatigue (known as glare in front of the eyes), nausea, epileptic attacks and, in extreme cases, even visual damage.

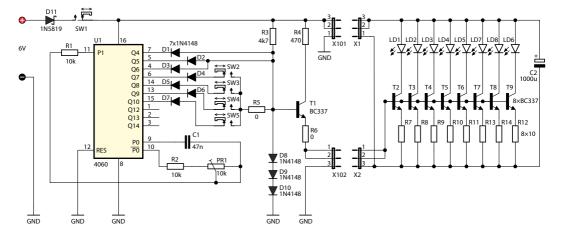


Figure 1. Schematic diagram

Mounting and start-up

Figure 2 shows the arrangement of the components on the PCB.

First, separate the boards by splitting or cutting. Protruding fragments can be grounded or trimmed to the board edge.

Solder the components sequentially onto the board, starting with the smallest ones. Once the circuit has been mounted, check it carefully for correct mounting. Check that the components have not been soldered in the wrong direction or in the wrong

places and that no soldering points have been short-circuited during soldering. The strobe rate and rhythm can be set as desired using the PR1 potentiometer and SW2-SW5 switches. It is recommended to check all 16 combinations of the switch settings.

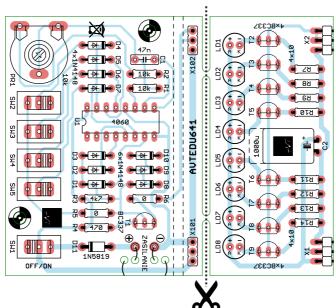


Figure 2. Arrangement of components on the PCB

Recommended mounting order:

CONTROL BOARD

R5, R6:.....0 Ω (black) D1-D10:.....1N4148 ! D11:.....1N5819 !

U1:.....74HC4060 chip + base !

T1:BC337 or BC338!

SW1-SW5:switch

C1:.....47 µF

PR1:potentiometer 10 k Ω + adjustment shaft

Battery cage 4×AA red , black ⊖

LED BOARD

R7-R14:.....10 Ω (brown-black-black-gold)

X1, X2:.....goldpin1x3 angle pins for boards connection

T2-T9:....BC337 or BC338!

C2:1000 µF! (mounted horizontally)

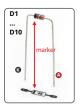
LD-LD8:LED

Start assembly by soldering the components into the board, in the order of size, from the smallest to the largest. When assembling components marked with an exclamation mark, pay attention to their polarity.

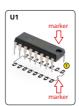
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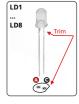




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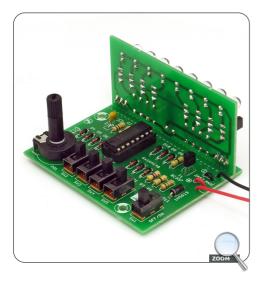




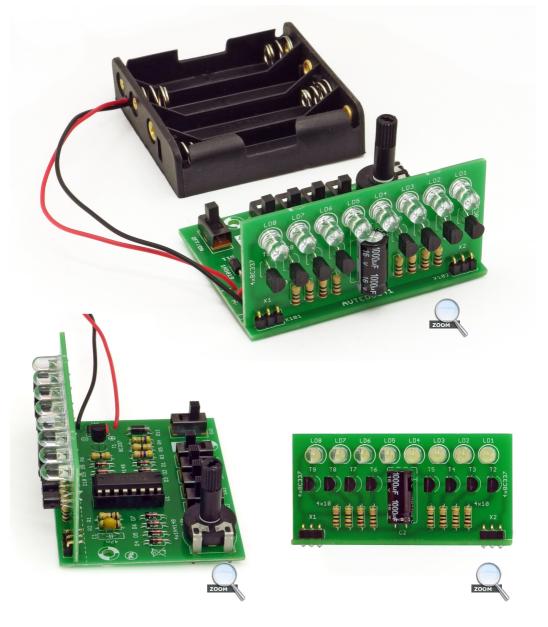




Components received in the kit may differ in appearance from those shown in the photograph. Despite this, they have the same parameters, and their appearance will not affect their operation in the circuit.









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