FUTURE KIT

HIGH QUALITY ELECTRONIC KITS

SUPER SIREN 2 TONE 10W
CODE 231

LEVEL1

The super siren 2 tone is suitable for being used as warning device, alarm-systems, door bells etc.

Technical specifications:

- power supply: 12VDC.

- consumption: 200mA max.

- output power: 10W max.

- loudspeaker connection: 8 Ohm

- dimensions: 2.55 x 1.41 inches

How to works:

TR1 and TR2 are connected to oscillate low frequency related to R1, R2, R3, C1 and C2. The signal is transmitted through the emitter of TR2 to R4 to the ground. C3 generates low frequency. The emitter of TR2 is connected through R7 and R8 to the high oscillator which consists of TR3, TR4, R6 to R9, C4 and C5. The high signal that is controlled is transmitted through R6 to the base of TR5 which is transistor to be amplified before going throughout a loudspeaker.
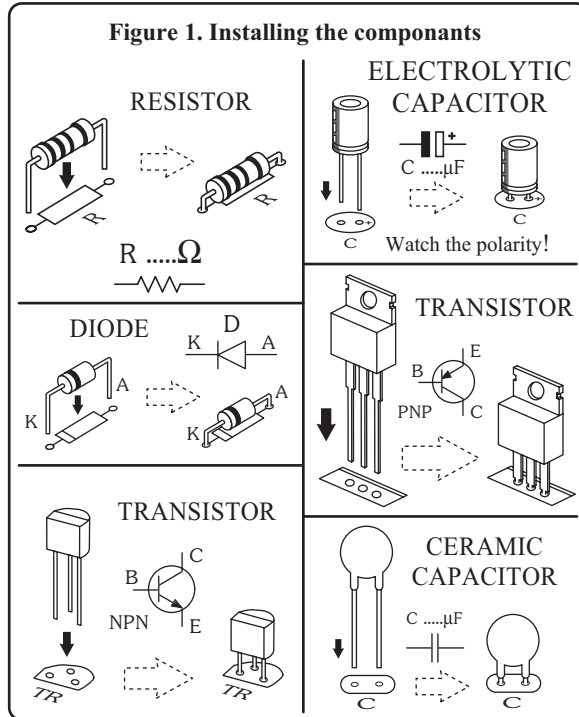
PCB assembly:

Shown in Figure 3 is the assembled PCB. Starting with the lowest height components first, taking care not to short any tracks or touch the edge connector with solder. Some tracks run under components, and care should be taken not to short out these tracks. All components with axial leads should be carefully bent to fit the position on the PCB and then soldered into place. Make sure that the electrolytic capacitors are inserted the correct way around. The LED has a flat spot on the body which lines up with the line on the overlay. Now check that you really did mount them all the right way round!

Testing:

This kit has an operating voltage range of 12 VDC. Apply power supply. You will hear the siren sound from the loudspeaker. If you slide SW to "1" or "2" point, the circuit is generate the different siren sound.

Figure 1. Installing the componants

RESISTOR

ELECTROLYTIC CAPACITOR

R ......Ω

C ......µF   Watch the polarity!

DIODE

TRANSISTOR

PNP

TRANSISTOR

NPN

CERAMIC CAPACITOR

C ......µF

Troubleshooting:

The most problem like the fault soldering. Check all the soldering joint suspicious. If you discover the short track or the short soldering joint, re-solder at that point and check other the soldering joint. Check the position of all component on the PCB. See that there are no components missing or inserted in the wrong places. Make sure that all the polarised components have been soldered the right way round.

Figure 2. The super siren 2 tone circuit

Figure 3. Connections

12VDC 1A.

FK231-2

HORN SPEAKER 8 Ω 15W
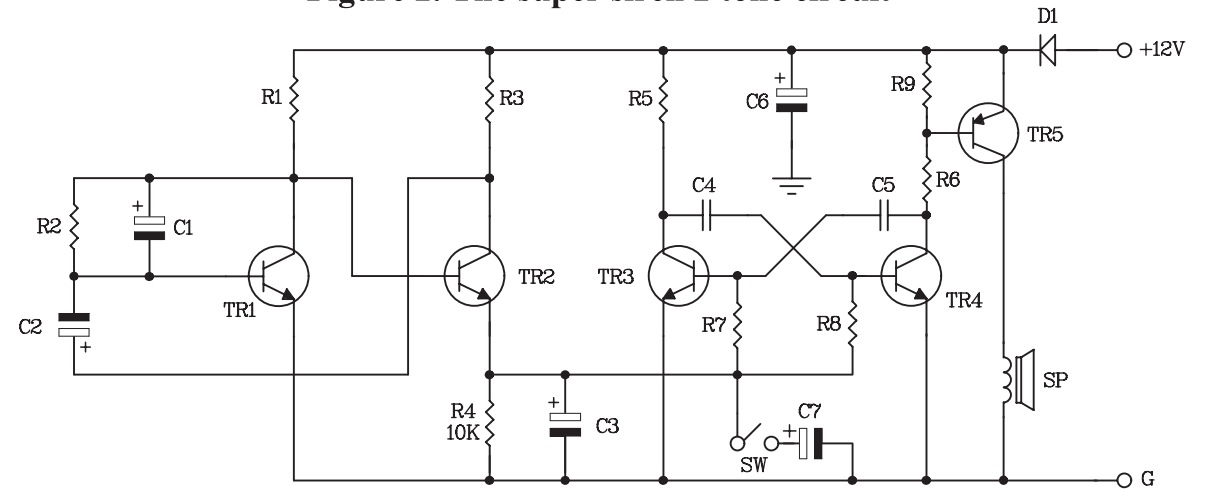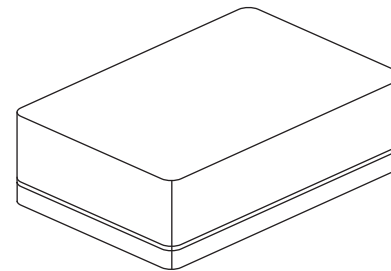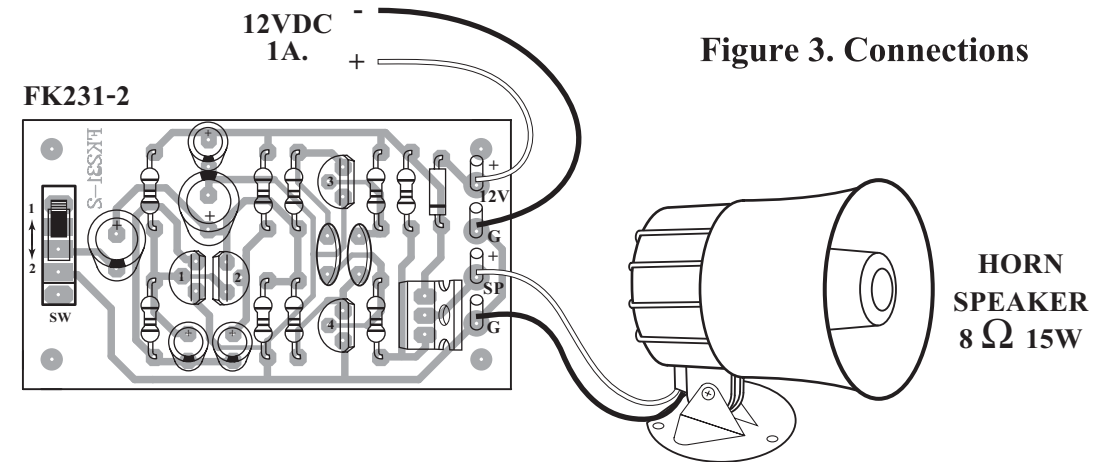
NOTE:

FUTURE BOX FB04 is suitable for this kit.

NEW KIT SET

CODE FK	DESCRIPTION	POWER
167	FIREFLY LIGHT (NIGHT ACTIVATE)	3VDC.
275	THREE TRAIN SOUNDS (IC DIGITAL)	3VDC.
276	OWL VOICE (IC DIGITAL)	3VDC.
326	DUAL STATION INTERCOM&DOOR BELL (WITH 2 SPEAKER)	6-12VDC.
436	UHF REMOTE CONTROL 1 CH.	TX. 9VDC. RX. 12VDC.
673	MINI POWER AMP 1+1W. STEREO	3-12VDC.