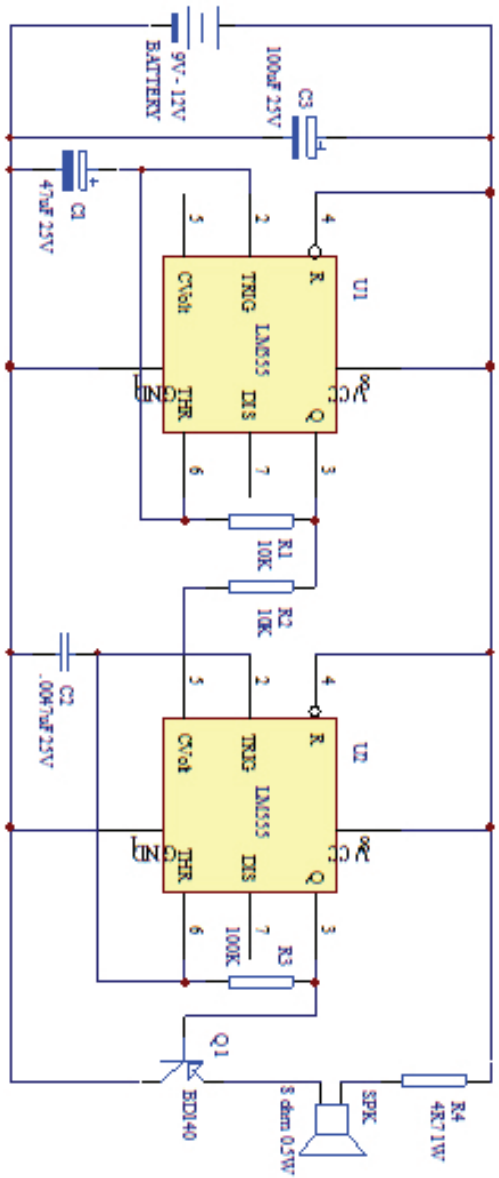
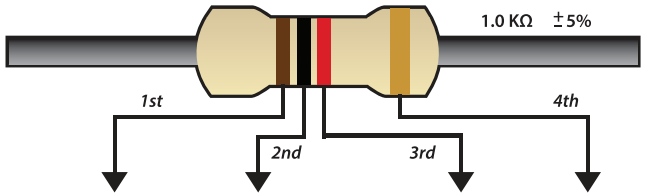
Schematic Diagram



RESISTOR COLOUR CODE GUIDE



Colour	1st Band	2nd Band	Decimal Multiplier		Tolerance
Black	0	0	1	1	
Brown	1	1	10	10	± 1%
Red	2	2	100	100	± 2%
Orange	3	3	1K	1000	
Yellow	4	4	10K	10,000	
Green	5	5	100K	100,000	
Blue	6	6	1M	1,000,000	
Violet	7	7	10M	10,000,000	
Grey	8	8	100M	100,000,000	
White	9	9	1000M	1,000,000,000	
Gold				0.1	± 5%
Silver				0.01	± 10%
None					± 20%

More Kits In The Range

KI0205 Ding Dong Door Chime Kit
KI0236 Wailing Siren Kit
KI0208 Light Alarm Kit
KI0211 Moisture Sensor Kit
KI0213 Electronic Dice Kit
KI0231 9V DC Siren Kit

www.electrotechbrands.com.au

(KI0231)

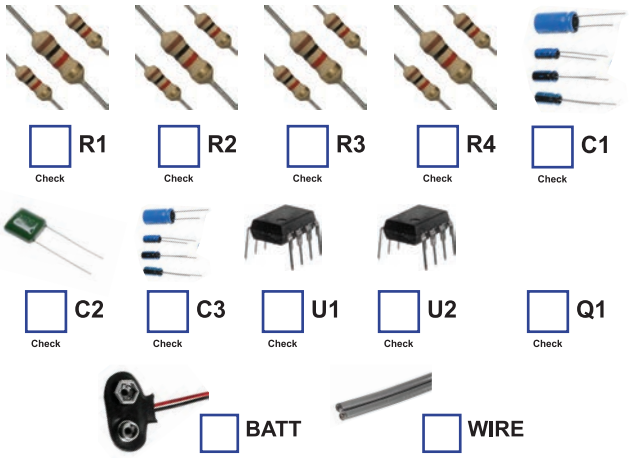
9V DC Siren Kit

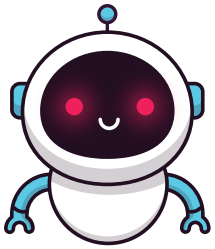
Tekky Kit

tekky.com.au is a trademark of Electrotech Brands Pty Ltd

Component List

Designator	Part Description	Part No.
R1	10K 0.25W Resistor (Brown, Black, Orange)	RS1605
R2	10K 0.25W Resistor (Brown, Black, Orange)	RS1605
R3	100K 0.25W Resistor (Brown, Black, Yellow)	RS1725
R4	4R7 1W Resistor (Yellow, Purple, Gold)	RS3205
C1	47uF 25V Electro Capacitor	CC1439
C2	.0047uF 25V polycap	CC2045
C3	100uF 25V Electro Capacitor	CC1445
U1	555 Timer IC	X-LM555N
U2	555 Timer IC	X-LM555N
Q1	TO-126 PNP Transistor	BD140
BATT	9V Battery Snap	BA9000
WIRE	10cm Speaker Wire	BC327

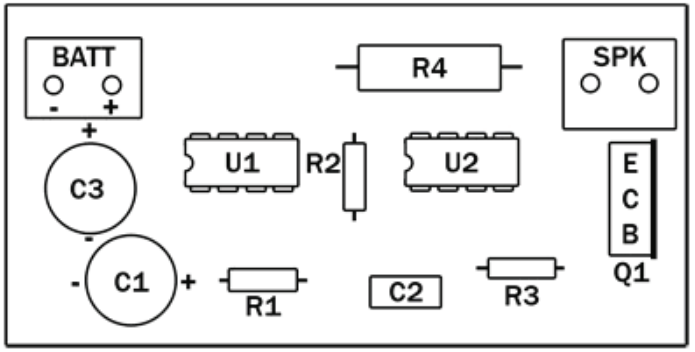




Circuit Description

In this kit there are two oscillators, one switching the other producing the siren output. U2 produces the sound which is connected to the base of Q1 which acts as an amplifier to drive the speaker. The oscillation frequency of U2 is dependant on R3 and C2, altering these will change the output frequency. U1 is also used as an oscillator. Each time it triggers the voltage at pin 3 goes high and as it is connected to pin 5 of U2 it forces U2 to change its note producing the siren hee-haw sound.

PCB Component Overlay

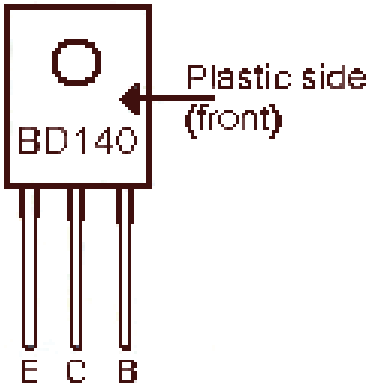


Using the component overlay, the component list and the circuit diagram load and solder the components into the printed circuit board (PCB).

When finished, closely inspect your solder joints and your component placements are all okay. Now check your battery with a multimeter to ensure it is okay.

Fit the battery and the Siren should work.

Transistor BD140 Identification



The BD140 transistor supplied may not have E, C, B marked. Please see diagram for pinout.