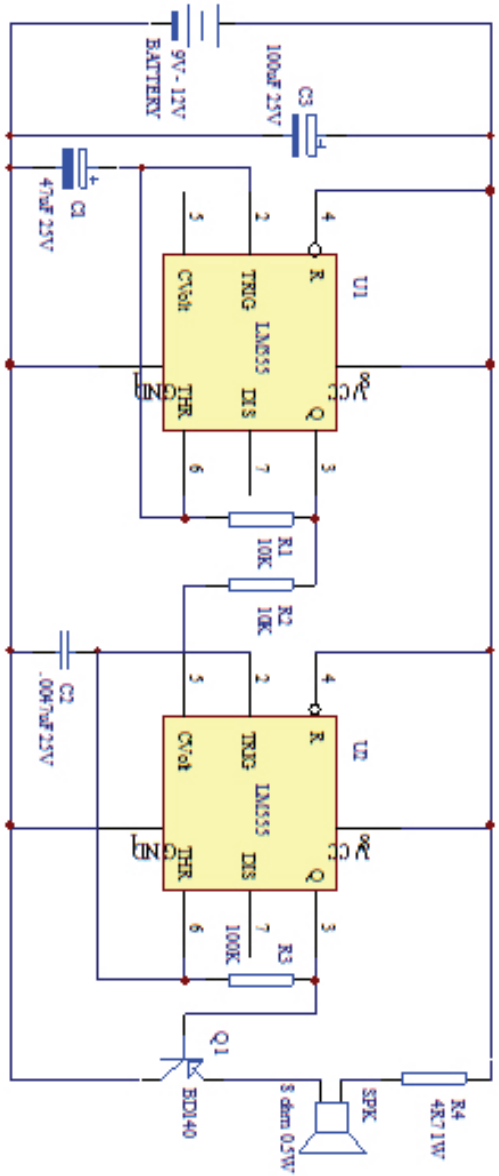
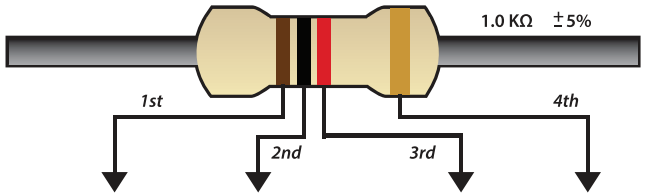
Schematic Diagram



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

ElectroTech Brands Pty Ltd
www.electrotechbrands.com.au

(KI0231)

9V DC Siren Kit

Tekky Kit

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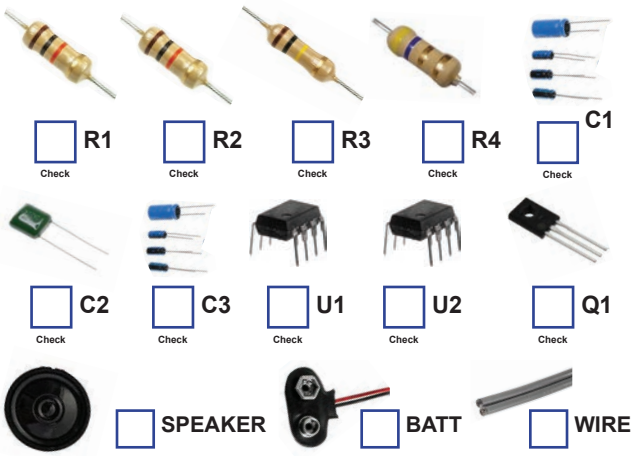
Component List

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		BD140
BATT	9V Battery Snap	BA9000
WIRE	10cm Speaker Wire	BC327
SPK	Speaker	SP1207



This kit contains two oscillators.

The first oscillator switches, while the second one generates the siren sound.

U2, one of the oscillators, creates the sound.

This sound is then sent to the base of Q1.
Q1 acts like a booster, making the sound strong enough to drive the speaker.

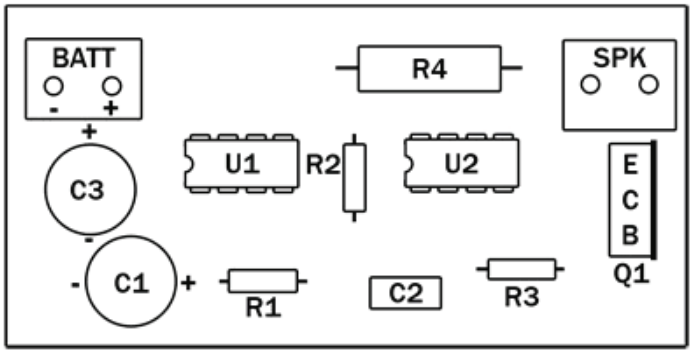
The frequency at which U2 oscillates (produces the sound) depends on the values of R3 and C2.

If you adjust these values, you can change the pitch of the sound.

U1 is the other oscillator.
Whenever U1 activates, it makes the voltage at pin 3 go high. This high voltage is connected to pin 5 of U2. Because of this connection, U2 changes its sound whenever U1 activates.

This results in the siren making a hee-haw sound.

PCB Component Overlay

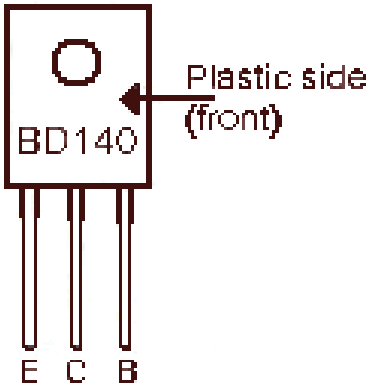


Using the component overlay, the component list and the circuit diagram, load and solder the components into the printed circuit board (PCB).

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.