



ZS6HVB
Affiliated to
the SARL

SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

Second Quarter 2019

We're on 

COMMUNICATION IS THE NAME OF THE GAME

The first second quarter meeting of the club will be held at the qth of Rex, ZS6REX, on Saturday 15 June, 14:00 for 14:30.

For those who wish to have a braai, fires will available earlier. So bring along whatever you want to braai and drink. Time 12:00 till 14:00.

Normal catering for the meeting will apply.

Some useful information

The first toothbrush with bristles was made in China in 1498.

The term 'cop' came from the English phrase "Constable on Patrol".

A shark can grow a new set of teeth in less than a week.

Spaghetti was invented in China and brought to Italy by Marco Polo.

Any month that starts on a Sunday will have a Friday the 13th in it.

The earth travels through space at 660,000 mph or 1,062,167 kph.

Q. What's the biggest insect in the world?

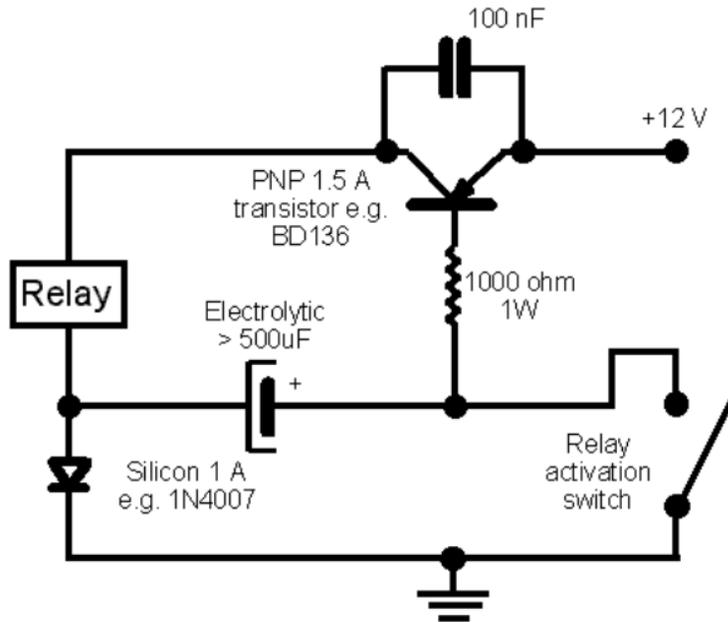
A. The stick insects of Indonesia are up to 30cm long.

A fresh onion, when cut, releases a gas called propanethiol-S into the air. When this gas reaches your eyes, it mixes with the water in the eye to form a weak acid. This acid irritates the eye and causes the tear-producing glands to flood the eye with water in an attempt to wash away the irritant.

The crocodile is surprisingly fast on land. If chased, a person should run in a zigzag motion, for the croc has little or no ability to make sudden changes of direction. (good to remember)

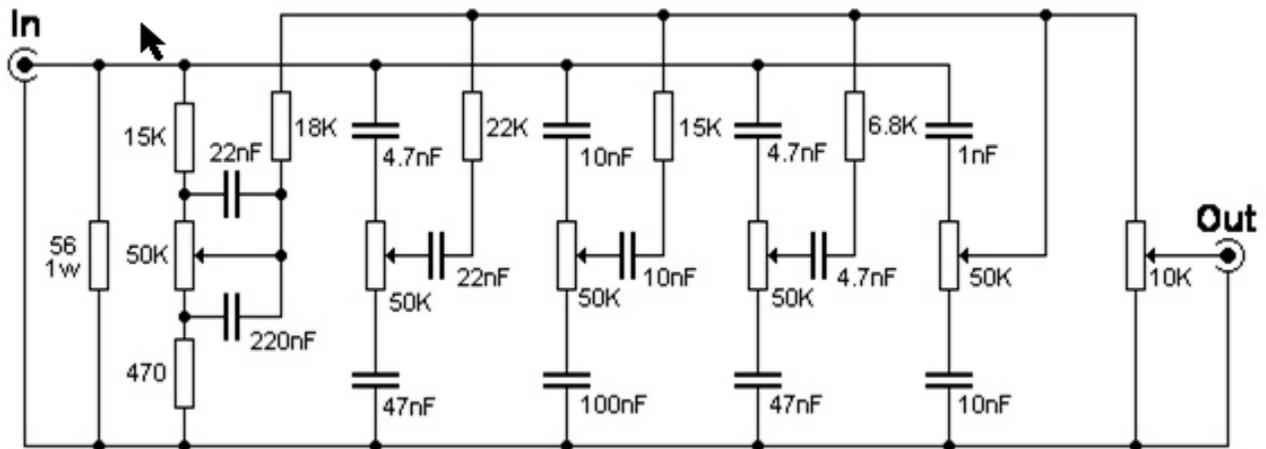
Groups of animals: **Pride** of lions, **leap** of leopards, **sloth** of bears, **knot** of toads, **bouquet** of pheasants, **troop** of kangaroos, **mustering** of storks, **gang** of elk, **clouter** of cats, **kindle** of kittens, **pack** of dogs, **leash** of greyhounds, **trip** of goats, **root** of wolves, **adrift** of hogs, **parliament** of owls, **tidings** of magpies, **siege** of herons, **peep** of chickens, **exaltation** of larks, **murder** of crows, **unkindness** of ravens, **ostentation** of peacocks, **skulk** of foxes, **shrewdness** of apes, **crash** of rhinoceroses!

Use 24 V relays at 12 V



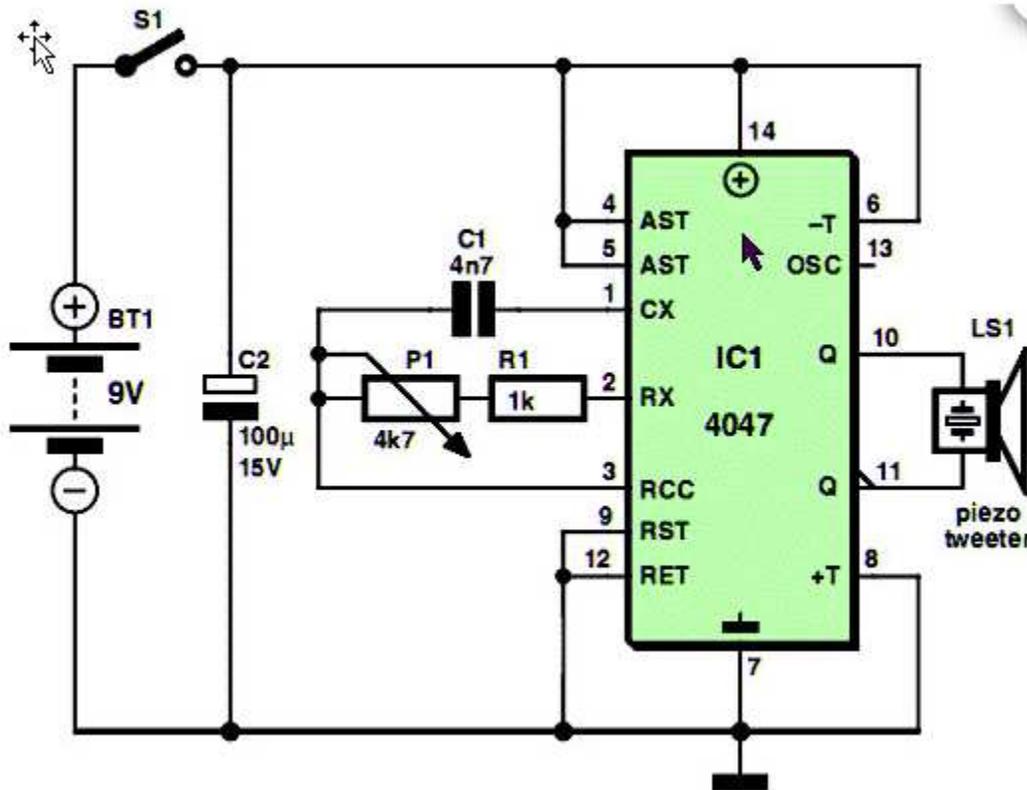
The idea is based on the fact that all relays, once activated, need a much lower voltage to remain active. When you close the activation switch, the relay gets nearly 24V, i.e. the sum of the power supply voltage and that of the charged electrolytic capacitor. After a while the capacitor discharges and the voltage across the relay goes down to nearly 12 V, which is well sufficient to keep the relay active. Play with resistor and capacitor values to best suit the characteristics of your relay.

5 Band Equalizer



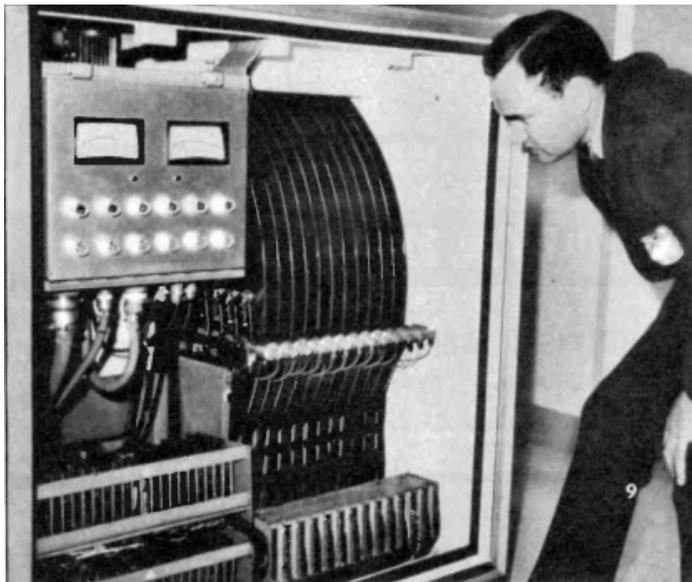
From left to right the equalized bands are 60 Hz, 240 Hz, 1 KHz, 4 KHz and 16 KHz. For stereo use the same circuit must exist for the other channel.

Low cost Mosquito Repellent



The low cost mosquito repellent circuit uses just a single IC, a CMOS type 4047. This very multi-purpose IC can be wired in very many operating modes, including that of the multivibrator or astable used here. The operating frequency is set by the external components C1, R1, and P1. The latter makes it possible to slightly adjust the frequency, given the uncertainty that exists over the most effective value. To best reproduce the high frequencies produced by the generator, the output transducer used is a simple tweeter, but it must be a piezo one. Such a tweeter behaves in fact much like a capacitor, and so doesn't overload the CMOS IC outputs that are incapable of supplying a substantial current.

To obtain an output signal of sufficient amplitude while being powered from a single 9 V battery. The tweeter is connected between the 4047's Q and Q outputs. With this condition, it possible to apply complementary (antiphase) signals to the tweeter so it 'sees' an alternating voltage of double the supply voltage. In purely theoretical terms, this quadruples the output power available. In practice, it's better to regard it as tripling it, but the benefit achieved by doing it this way is nonetheless very real. All that remains is for you to place the project in the middle of the patio table or beside your lounge in order to get a taste of the calm of a summer's evening without mosquitoes bothering you acoustically or worse, biting.



These huge magnetic memory disks, more than one meter in diameter, are an integral part of a computer operated by the Lockheed Missile and Space Company. Rotating continuously at 1200rpm the drums store between some 88,000,000 characters, each one accessible within a fraction of a second. (circa 1965)

Some hard drive. 88Mb.

Advertisement In Shop:
Guitar, for sale.....
Cheap.....

On a bulletin board:
Success Is Relative.
The more The Success,
The more The Relatives.

The Surest Sign
That Intelligent Life Exists
Elsewhere In The Universe
Is The Fact That It Has Never Tried To
Contact Us.

Sign At A Barber's Shop :
We Need Your Heads To
Run Our Business.

Laugh And The World Laughs
With You,
Snore And You sleep Alone

Club Information

Postal address PO Box 19937 Sunward Park
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Website <http://www.zs6hvb.za.net>

Back Issues of Shacknews available on the club website

e-mail zs6hvb@zs6hvb.za.net

Repeater 145.1875 MHz input - 145.7875 MHz output

Bulletins Sunday morning - 145.7875 MHz & 7162 KHz @ 08h45.

Monthly meetings

Venue to be advised

Every Third month
On the *3rd Saturday of
the month at 14:30.*

Chairman:

Vacant

Secretary/Treasurer:
Shacknews Editor:

Berridge Emmett
Berridge Emmett

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