



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

NOVEMBER 2011

COMMUNICATION IS THE NAME OF THE GAME

Meeting There was a good turnout at the November meeting. The end of year Xmas do was discussed and finalized. This is the clubs official function. There was technical stuff displayed and discussed.

Please don't forget to pay your subs.

ZS6SSC Social Club There was no meeting this month.

---oooOOOooo---

Ever wondered why America's economy fell of the cliff

John Smith started the day early having set his alarm clock (MADE IN SINGAPORE) for 6 am. While his coffeepot (MADE IN CHINA) was perking, he shaved with his electric razor (MADE IN HONG KONG).

He put on his shirt (MADE IN SRI LANKA), designer jeans (MADE IN SINGAPORE) and tennis shoes (MADE IN KOREA).

After cooking his breakfast in his electric skillet (MADE IN INDIA) he sat down with calculator (MADE IN MEXICO) to see how much he could spend today. After setting his watch (MADE IN TAIWAN) to the radio (MADE IN INDIA) he got in his car (MADE IN GERMANY) filled it with petrol (from Saudi Arabia) and continued to search for a well-paying JOB in America.

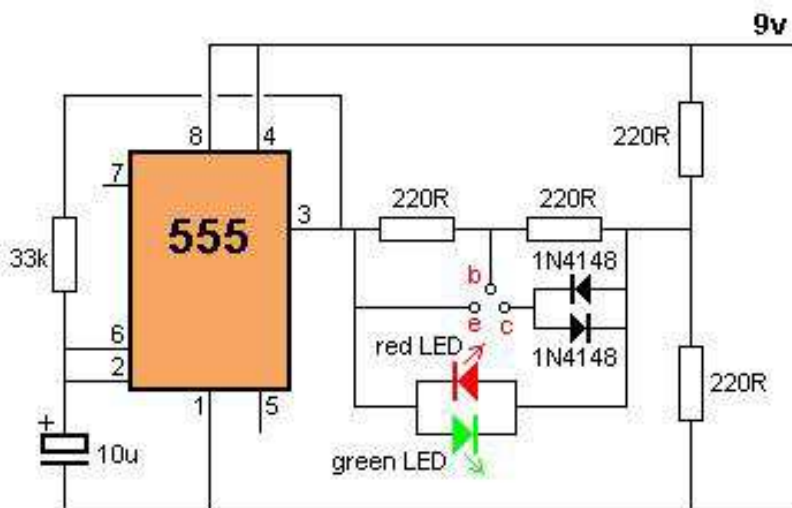
At the end of yet another discouraging and fruitless day checking his computer (MADE IN MALAYSIA), John decided to relax for a while.

He put on his sandals (MADE IN BRAZIL), poured himself a glass of wine (MADE IN FRANCE) and turned on his TV (MADE IN INDONESIA), and then wondered why he could not find a well-paying job in America.

Inbred cat!



A simple transistor tester

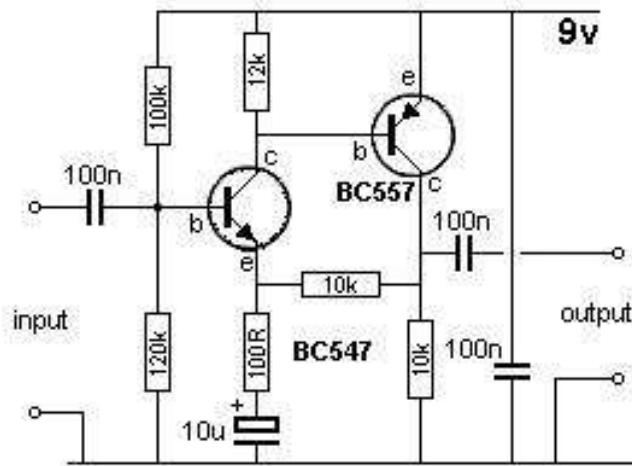


The 555 operates at 2Hz. Output pin 3 drives the circuit with a positive then zero voltage. The other end of the circuit is connected to a voltage divider with the mid-point at approx 4.5v. This allows the red and green LEDs to alternately flash when no transistor is connected to the tester.

If a good transistor is connected, it will produce a short across the LED pair when the voltage is in one direction and only one LED will flash. If the transistor is open, both LED's will flash and if the transistor is shorted, neither LED will flash.

---oooOOOooo---

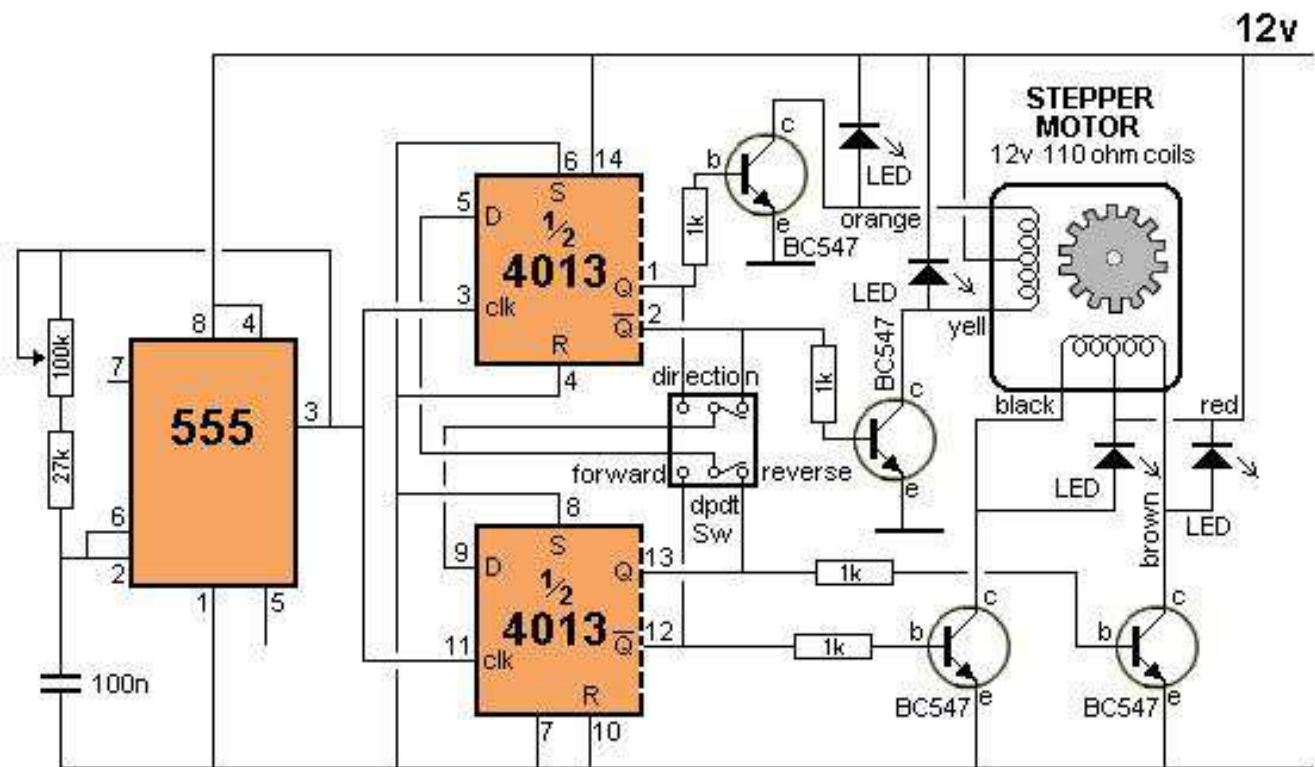
MICROPHONE PRE-AMPLIFIER



This circuit consists of two directly coupled transistors operating as common-emitter amplifiers. The ratio of the 10k resistor to the 100R sets the gain of the circuit at 100.

New Ham callsign server - www.hamqth.com. (Tried it and it works)

STEPPER MOTOR CONTROLLER



This circuit controls the speed of a stepper motor via the 100k pot. The direction of rotation is determined by the double-pole double-throw switch.

The stepper motor used in this circuit came from an old scanner. It had 5 wires: red-black-yellow-brown-orange. The LEDs illuminate via the back-emf of the coils and prevent the spikes entering the transistors. The LEDs will flicker to show the pulses being received by the stepper motor.

The 27k stop-resistor limits the upper-frequency of the 555 and prevents the circuit producing pulses that are too fast for the stepper motor.

If the colour coding is different on your stepper motor and it fails to work, you only need to reverse two connections thus:

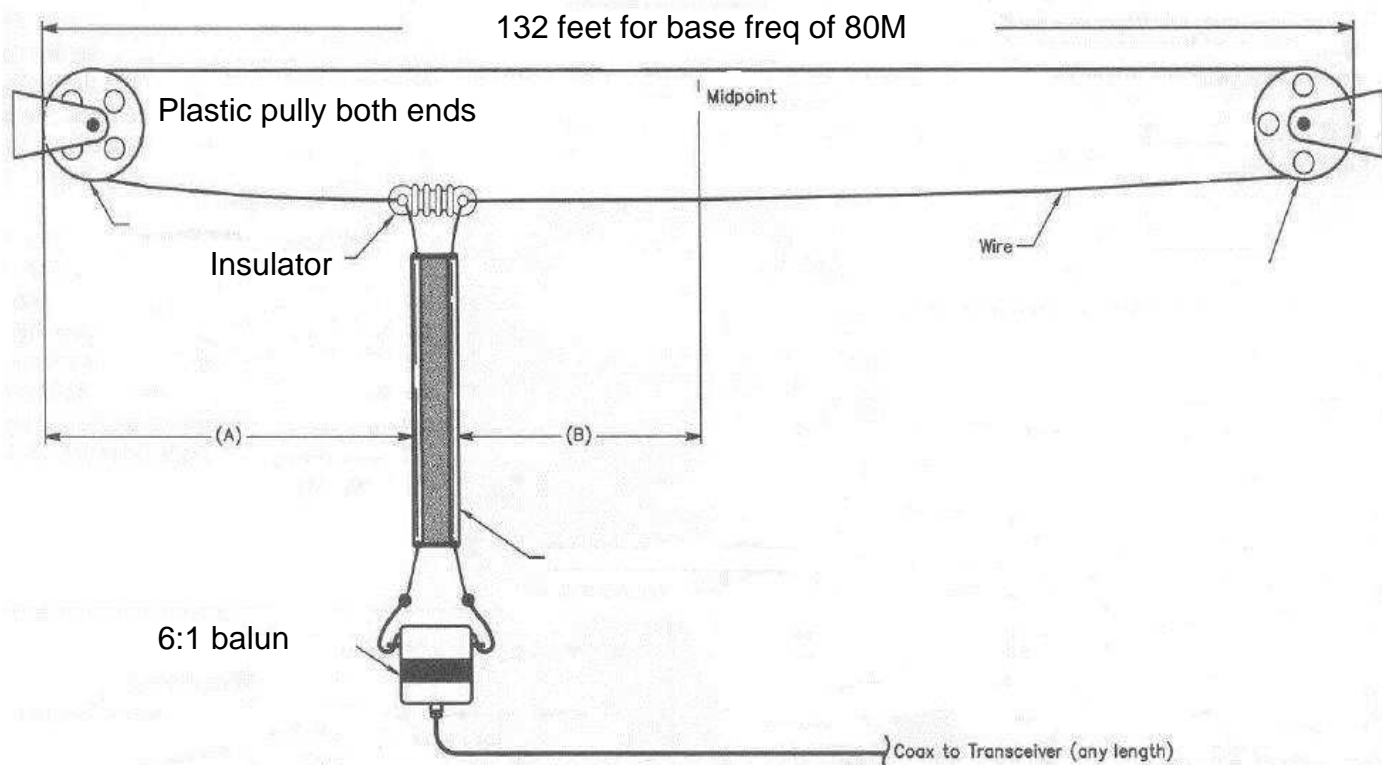
A B C D

A B D C (reverse the two end connections) and if this fails,

A D B C (reverse the two middle connections)



Clothesline Antenna



CLUB INFORMATION

Postal address PO Box 19937 Sunward Park 1470

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

Linked to 70 cm - 438.850 MHz (Sunday bulletins)

Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45.
Relay - 80M - 3662KHz

Monthly meeting venue

Germiston Methodist Church
Room at back of the offices
Lady Duncan Rd
Germiston

3rd Saturday of the month at 14:30

Committee

Chairman	Ton van Dijk	ZS6ANA	011-432-5494
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Club bank details

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Branch Code 201209 - Sunward Park