



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

DECEMBER 2011



Season's Greetings

COMMUNICATION IS THE NAME OF THE GAME

Meeting The end of year Xmas do was a success with 22 members and family being present. The weather played along seeing all the activities were outdoor. Thanks to all those who brought along salads and other nice goodies to eat.

Please remember to pay your subs.

ZS6SSC Social Club There was no meeting this month.

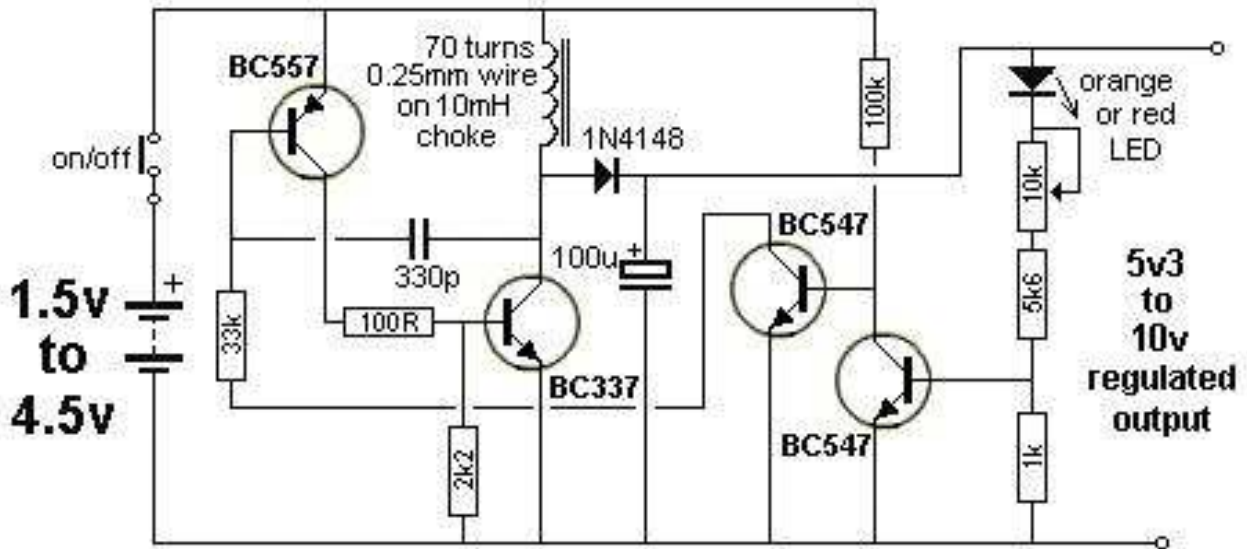
---oooOOOooo---

A couple of pictures from the event

More to found on the club website and Facebook



1.5v to 10v INVERTER

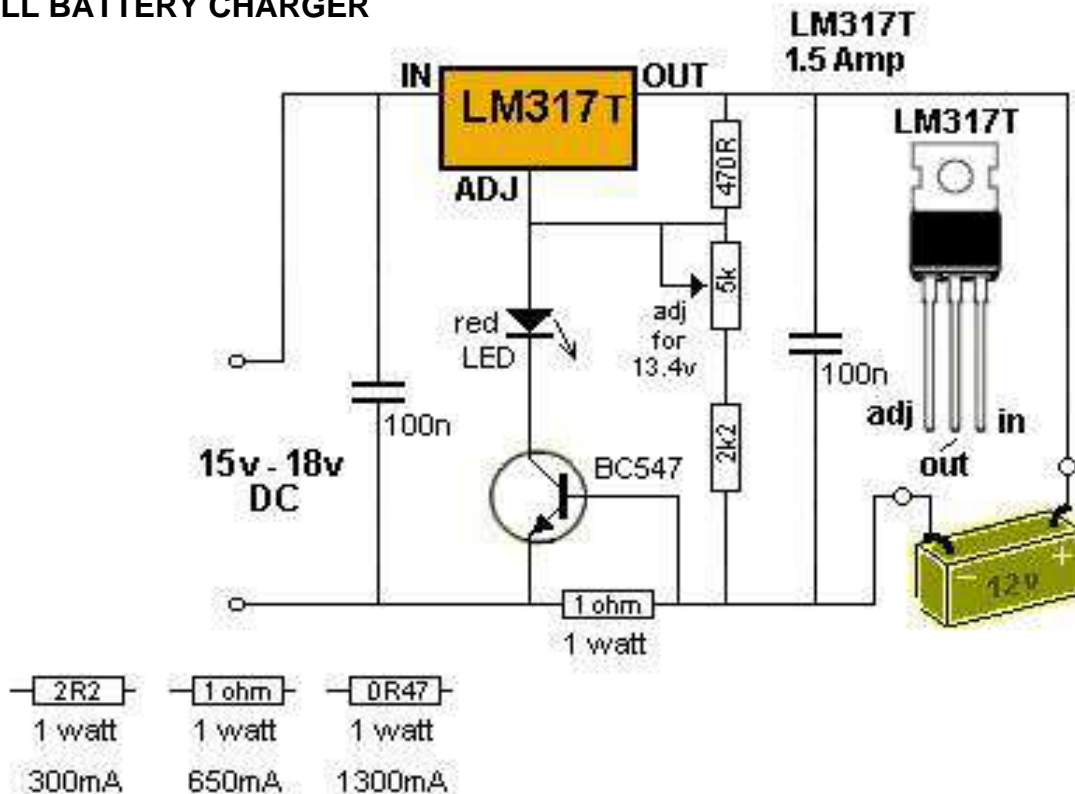


This very clever circuit will convert 1.5v to 10v to take the place of those expensive 9v batteries and also provide a 5v supply for a microcontroller project.

But the clever part is the voltage regulating section. It reduces the current to less than 8mA when no current is being drawn from the output. With a 470R load and 10v, the output current is 20mA and the voltage drop is less than 10mV. The pot will adjust the output voltage from 5.3v to 10v.

I'm sure a use can be found for this device (ed)

GELL CELL BATTERY CHARGER



This circuit will charge gell cell batteries at 300mA or 650mA or 1.3A, depending on the CURRENT SENSING resistor in the 0v rail. Adjust the 5k pot for 13.4v out and when the battery voltage reaches this level, the current will drop to a few milliamps. The red LED indicates charging and as the battery voltage rises, the current-flow decreases. The maximum is shown below and when it drops about 5%, the LED turns off and the current gradually drops to almost zero.

HF Indoor receiving antenna

This antenna technically could be used to transmit but its not recommended. Basically its a helical antenna and terminated with a capacitor hat at the top. Design is simple, take a dowel, mop handle or anything that is close to that size and shape that does not conduct. Then take 100 feet (30m) of wire which must be insulated and wrap it around the stick, leaving enough at the base to go to your radio or enough to connect a pl-259 onto the end. When you have wound up all that wire tightly and you get to the point where your about 18 inches (46cm) from the top stop winding. Then take the end of the wire and attach it to the capacitor hat and secure it to the wooden dowel. Use a round piece of aluminium but anything flat conductive and around 10 inches (25cm) across will do, more width the better but no need to over do it. When complete take the wire at the bottom and attach it to your radio, or just solder it to the centre conductor of a coax then attach that to your radio.

Found to be a very good receiving antenna. As with any helical type of antenna if used to transmit it will do so but in a very broad range. **NOT RECOMMENDED!!!**. For construction you can use the image for reference.

Remember when

Blackjacks and bubble gums.



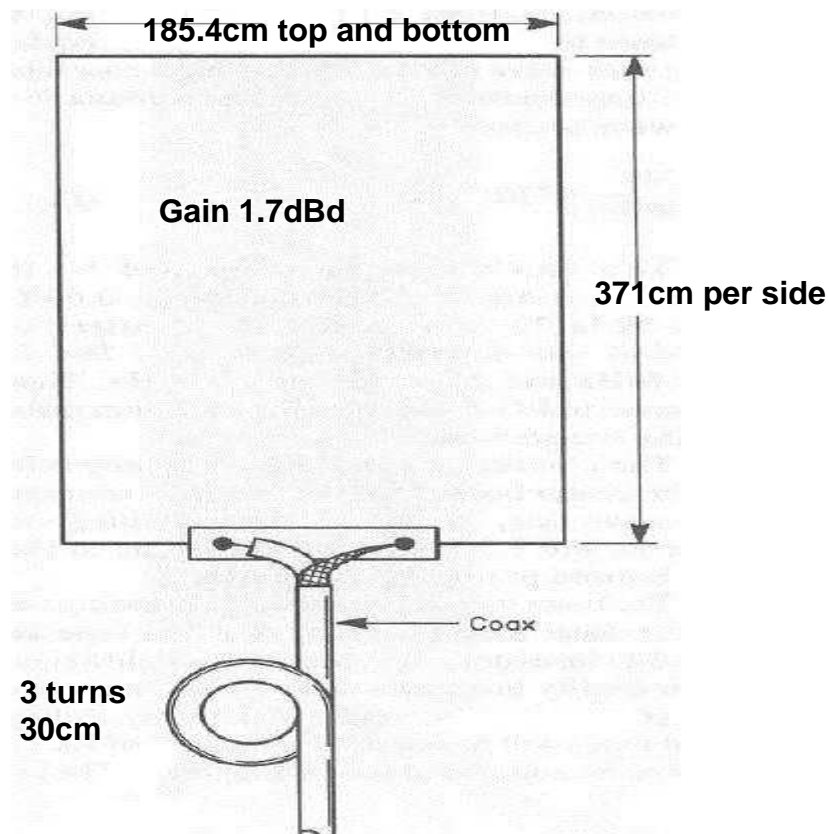
Home milk delivery in glass bottles with tinfoil tops



Adding Machines.



10M loop 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
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
Repeater	Ton van Dijk	ZS6ANA	011-432-5494
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Club bank details

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Branch Code 201209 - Sunward Park