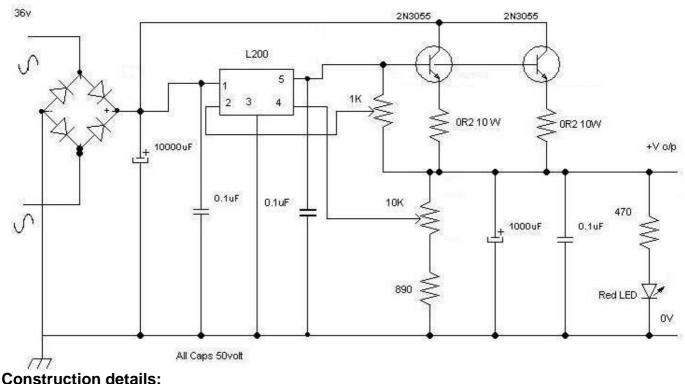


The September meeting will take place at Rex's qth on Sunday 16. This will be a **Bring and Braai.** Also up for discussion is the repeater and Echolink. Need your input. Don't forget subs are still due - R50.00. Start braaing at 13:00.

I have built three PSUs using this circuit and they work very well. It has variable voltage and current controls



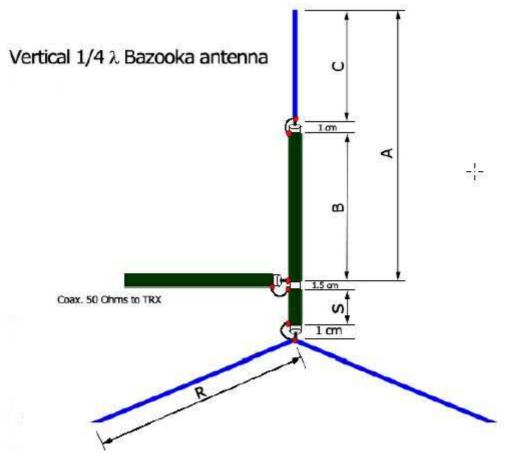
construction details.

This circuit and project is simple and to the point.

The two emitter resistors must be able to handle 10 amps max. The L200 and pass transistors must be mounted on substantial heatsinks. The transformer, bridge rectifier and smoothing capacitor may be chosen for the voltage/current required.

Appropriate meters can be added for Voltage and Ampere measurement.

Transistors, 2N3055, must be fitted with TO3 thermal mounting kits. Use heat sink paste to give good thermal contact. Check that the collectors, emitters and bases have a very high resistance to ground i.e. not short circuited.



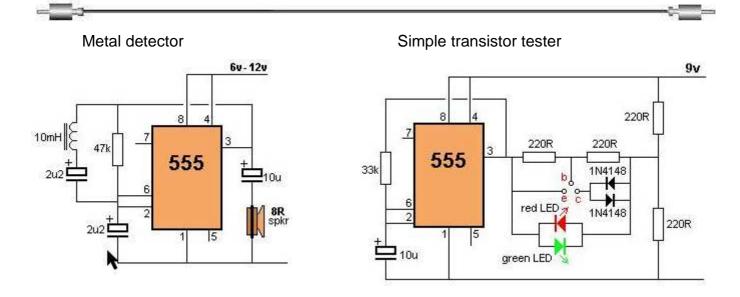
# Dimensibns in feet

A = 230/F (feet) B = A \* Vf C = (A - B)  $S = 4^{*}$ R = A \* 1.05

# **Dimensions in meters**

A = (230/F)\*0.305 (meters) B = A \* Vf C = (A - B) S = +/- 10cm R = A \* 1.05

Continued page 3



The angle of the radials will be idealy between 35° and 45°

Vf (velocoty factor of used coax) depends of the type of cable. Don't trust to much the clasic 0.66 value : the best is to mesure the Vf with a antenna analyser, results are some surprising (espacialy when you use old coax cables).

Applied as there are, those formulas gived me results close to what theoretically expected.



### From page 1

Before switching on the power supply check your work thoroughly. Make sure there are no short circuits. Once you are convinced that everything is OK, you can switch on, wait a few seconds, search for smoke and if none then good show.

#### **Parts List:**

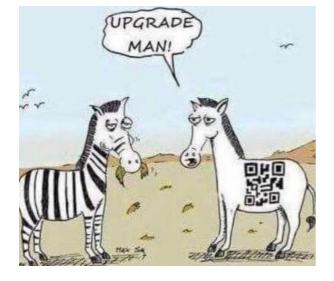
L200 IC Regulator Bridge Rectifier 15 Amp

10 000uF 40v Electrolytic Capacitor x 1 0.1uF 50v Ceramic Capacitor x 3 1000uF 50v Electrolytic Capacitor x 1 1K Variable Potentiometer 0.4 Watt 0R2 10 Watt Resistor 0R2 10 Watt Resistor 10K Variable Potentiometer 0.4 Watt 890 Ohm 5 Watt Resistor 470 Ohm 1 Watt Resistor Red Led 2N3055 NPN Transistor x 2 0 - 36 Volt 10 Ampere Transformer Heatsink for 2N3055 Transistors Heatsink for L200 IC Regulator 4mm Red Binding Post 20 Amp 4mm Black Binding Post 20 Amp Amp and Volt meters to choice

CAMPING: where you spend a small fortune, to live like a homeless person. I am a Seenager. (Senior teenager) I have everything that I wanted as a teenager, only 60 years later. I don't have to go to school or work. I get an allowance every month. I have my own pad. I don't have a curfew. I have a driver's license and my own car. The people I hang around with are not scared of getting pregnant and they do not use drugs. And I don't have acne.

Life is great.







## **Club Information**

Postal address PO Box 19937 Sunward Park 1470

Website <u>http://www.zs6hvb.za.net</u>

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.

Chairman	Vacant	Commit	tee	
Secretary/Treasurer	Berridge Emmet	t	ZS6BFL	011-893-1291
Shacknews Editor	Berridge Emmet	t	ZS6BFL	011-893-1291
Shacknews Printing	Harry Lautenbac	h	ZS6LT	011-888-5362

Monthly meeting venue

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

@ various venues