

# SHACKNEWS

## HIGHVELD AMATEUR RADIO CLUB

PO Box 1111, Bedfordview, 2008

April 2005

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### COMMITTEE

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Sunday morning BULLETINS - 145.7875 MHz & 7062 KHz @ ±08h45.

### COMMUNICATION IS THE NAME OF THE GAME

#### Meeting.

The nine amateurs present had many discussions about radio topics closest to the heart. The main one being again the PSU and the protection against the accidental reversal of power leads between power and rig. Can turn out very expensive if a bobo is made. At the next meeting there will be a more in-depth discussion on this subject with practical demonstration/s.

#### SARL AGM

The chairman and I were the only members of the branch who were present. Thanks to the President of the league who presented a most interesting chairman's report. Too much to put into this newsletter. It would be nice if the (hint-hint) whole PPT presentation was put onto the web to be used as a refresher. A couple of important financial matters are of note. One being that the league is well into the black and there is **NO** increase in membership fees. Thanks once again to all those involved. I will give verbal feedback at the upcoming meeting.

#### SSC meeting

The meeting was postponed due to the SARL AGM being on the same day. The next meeting is on the 14 May at the QTH of Ton and Yvonne. Map on last page.

## If you're a manager it pays to know your staff

On walking into the factory, the MD noticed a young guy leaning against the wall, doing nothing. He approached the young man and calmly said to him, "How much do you earn?" The young man was quite amazed that he was asked such a personal question, but he replied, none the less, "I earn R2 000.00 a month, Sir. Why?" Without answering, the MD took out his wallet and removed R6 000.00 cash and gave it to the young man and said, "Around here I pay people for working, not for standing around looking pretty! Here is your 3 months' salary, now GET OUT and don't come back".

The young man turned around and was quickly out of sight, noticing a few onlookers, the MD said in a very upset manner, "And that applies for everybody in this company". He approached one of the onlookers and asked him, "Who 's the young man that I just fired?" To which an amazing reply came of, "He was the pizza delivery man, Sir!"

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### CONSTRUCTION ITEM

#### Parts List:

R1 = 100K	Led1 = Your choice. I used High Brightness LED, RED, 5mm
R2 = 10K	IC1, IC2 = <u>LM741</u> , Op-Amp
R3 = 1K	9 volt Alkaline battery, case, probes
R4 = 100K	
*R5 = 470 ohm	(see text)

#### How it works:

Occasionally you need a continuity test between two points in an electronic circuit. Unfortunately, most continuity testers are prone to "lie". They don't do that deliberately, but if they see a small resistance, they *still* tell you that you have continuity. They just don't know any better. This unit is different. If you have continuity it will tell you so. And if you're reading even a low resistance through a component, the unit will tell you that as well.

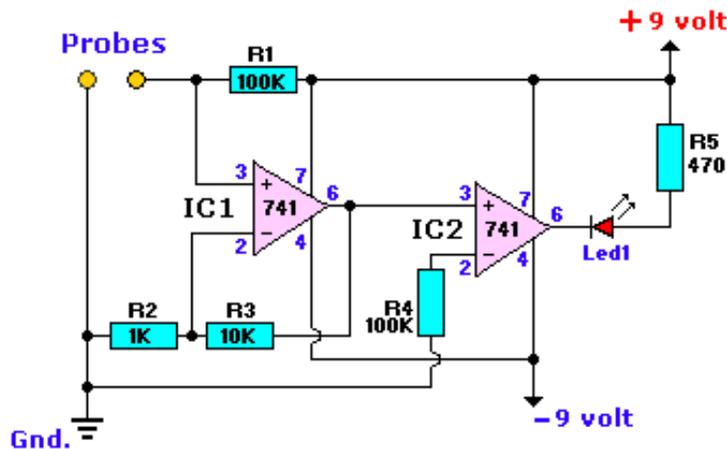
The unit uses two LM741 op-amps. It offers a short-circuit test current of less than 200µA. It detects resistance values of less than approximately 3 ohms. Nicest of all, it will not break down a PN junction. Since then I have long ago upgraded to the 'Latching' tester since it suits the type of work I do better.

In building this circuit, use good electronic practice, mounting the 741's in suitable ic sockets on perf-board. While there's nothing critical here, keep the work neat, and leads nice and short. \*If needed, reduce the value of

R5 to 330 ohms if you are using an older type led. When you're done, mount the unit in a small plastic box. A small dab of silicon rubber adhesive keeps the 9-volt battery in place at the bottom of the case, and will last a long time.

At the bottom of the page I have included the diagram how to connect the dual 9v power.

## Smart Continuity Tester



Gnd., +9V, and -9V NEEDS to be connected or the circuit will **NOT** work!

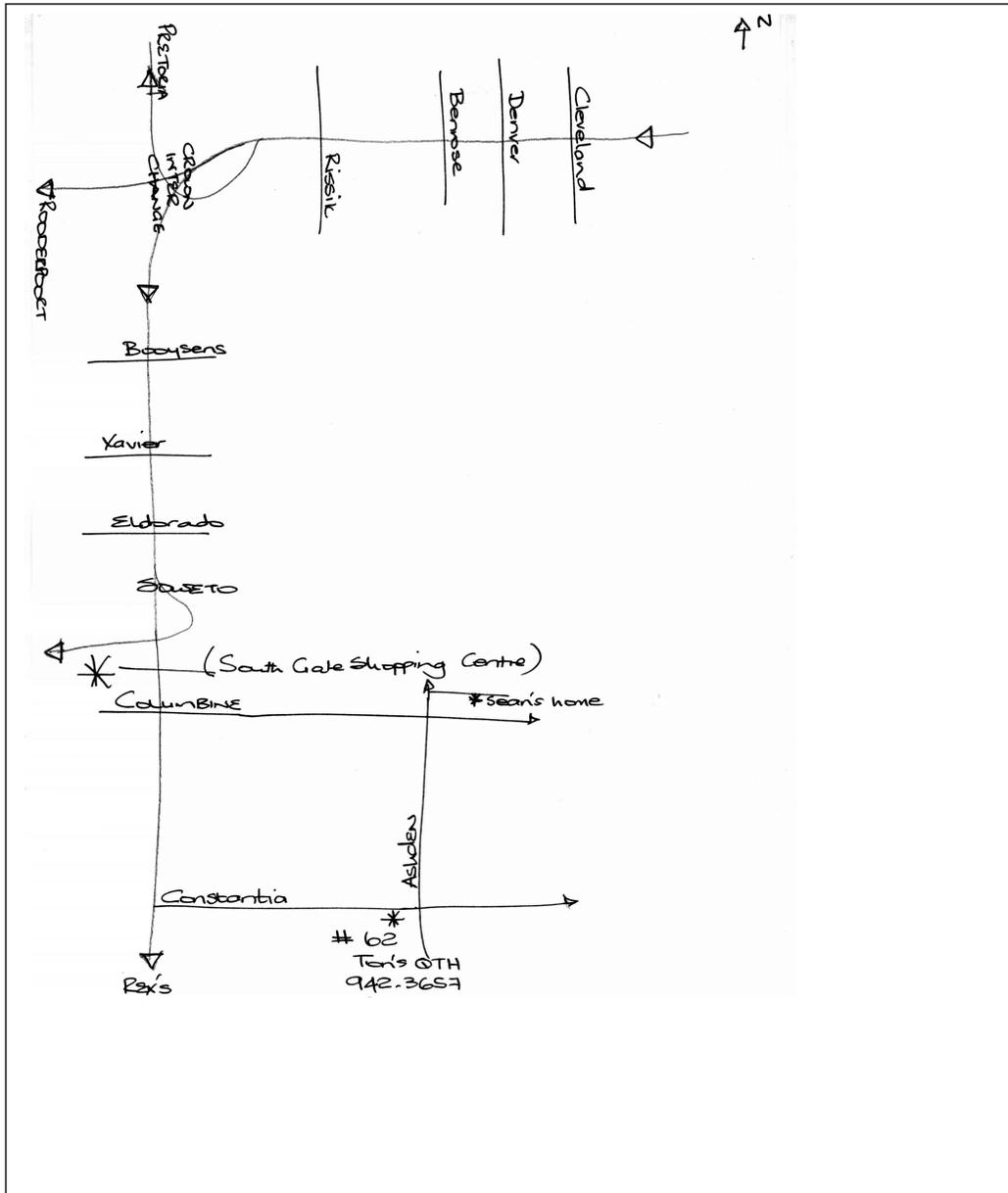
(from somewhere on the web)

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## Another blond joke

A Russian, an American, and a Blonde were talking one day.  
 The Russian said, "We were the first in space!"  
 The American said, "We were the first on the moon!"  
 The Blonde said, "So what? We're going to be the first on the sun!"  
 The Russian and the American looked at each other and shook their heads. "You can't land on the sun, you idiot! You'll burn up!" said the Russian.  
 To which the Blonde replied, "We're not stupid, you know. We're going at night!"

# Map to Ton & Yvonne's QTH



73

Berridge