Antique Wireless Association of Southern Africa Newsletter

228 August 2025

HEATHKIT DX 100

Features

- **Phone or CW on 160, 80, 40, 20, 15, 11 and 10 meters.**
- **Built-in VFO, modulator, and power supplies. 5-point TVI suppression.**
- **Kit contains all parts—tunes—hardware—cabinet, etc.—Easy-to-build.**
- **Coils are pre-wound and cable is pre-harnessed.**
- **High quality components are used throughout for reliable performance.**

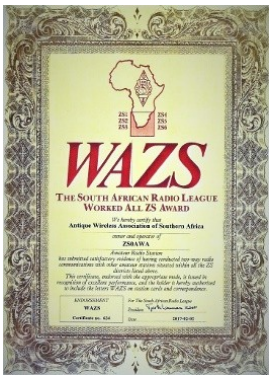
This transmitter is a completely proven piece of ham gear. Amateur radio operators in the field are enthusiastic in praising its performance under actual operating conditions. It provides the latest and most desirable design features, and combines high quality with real economy.
The model DX-100 is a completely bandswitching rig for phone or CW operation on 160, 80, 40, 20, 15, 11 and 10 meters. It has a built-in VFO, or may be excited from crystals. Crystal sockets are built in. The easy-to-build kit contains all parts necessary for construction, including tubes, cabinet, hardware, etc. The detailed step-by-step instruction manual features plenty of pictorial diagrams for easy assembly. Pi network output coupling allows matching non-conductive loads from 50 to 600 ohms, and is only one of the design features of this outstanding performer.
This transmitter employs push-pull 1625 tubes modulating parallel 6146 tubes. RF output is in excess of 100 watts on phone, and 120 watts on CW.

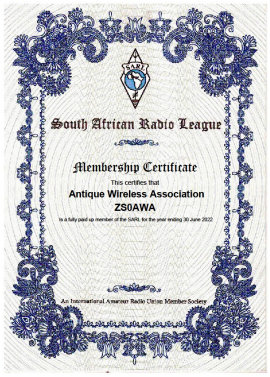
The VFO credit consists of a 6AU6 tube operating as a clapp oscillator in the frequency ranges of 1750 to 2000 kc, 7000 to 7425 and 6740 to 6807.5 kc. An OA2 regulator tube stabilizes the B supply to the oscillator screen grid.
A 12BY7 tube is used either as a modified Pierce crystal oscillator, or as a buffer, depending on whether the function switch is on crystal or VFO. The plate circuit of this stage is untuned when operating 160 or 80 meters, slug-tuned to 40 meters for operation at 40, 20, or 15 meters, and slug-tuned to 20 meters when operating on the 10-11 meter band.

A 5763 tube drives the parallel 6146 final. Pi network interstage coupling is employed between this stage and the final grid.
The 6AQ5 clamp tube serves to protect the 6146 tubes by reducing screen voltage automatically if grid drive to the final tubes is removed.
A single 12AX7 tube provides two stages of resistance—coupled triode speech amplification in the audio section. A 12BY7 driver provides input voltage to the 1625 modulator tubes. The speech amplifier and the modulator stages have been designed to restrict the audio speech range. This provides a "hard hitting" audio modulation with plenty of punch.

Separate power supplies are used for low-level and high-level functions. The low voltage transformer contains all the filament windings, including the filament for the high voltage rectifiers. It has a tapped secondary to supply voltage for the bias rectifier. A 12-volt center tapped winding supplies audio and RF stage filaments. The low voltage supply delivers 360 volts at 160 ma to the low power audio and RF stages. The bias rectifier voltage is 75 volts. The high voltage supply provides plate and screen potential for the final RF and modulator stages. The entire power section of the transmitter is fused (both sides of the line) at the line plug. All power supply components, including transformers and chokes are well rated for their service.

The DX-100 has been "amateur designed" to incorporate all of the most desirable features for convenient and effective amateur communications.





Inside this issue:

AWA Committee:

* President—Chris ZS6GM
* Vice President—
* Technical Advisor—Rad ZS6RAD
* Secretary/PRO—Andy ZS6ADY
* KZN—Don ZS5DR
* WC—John ZS1WJ
* Historian— Louis ZS6SK
* Members—Renato ZS6REN
  Wally ZS6WLY

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www.awasa.org.za

Chris's Musings

I can hardly believe that we are halfway through 2025 and it seems only yesterday we were making New Year resolutions. Did you make any? If so have you kept any of them? One of mine was to spend more time on my bench. Repairing, constructing and refurbishing radios. As it turns out, work and family have taken more of my time than I had expected. But, one of the highlights is the weekly AWA SA net. Whatever topic is introduced there is wide variety of participation and the scope of discussion has been very wide.

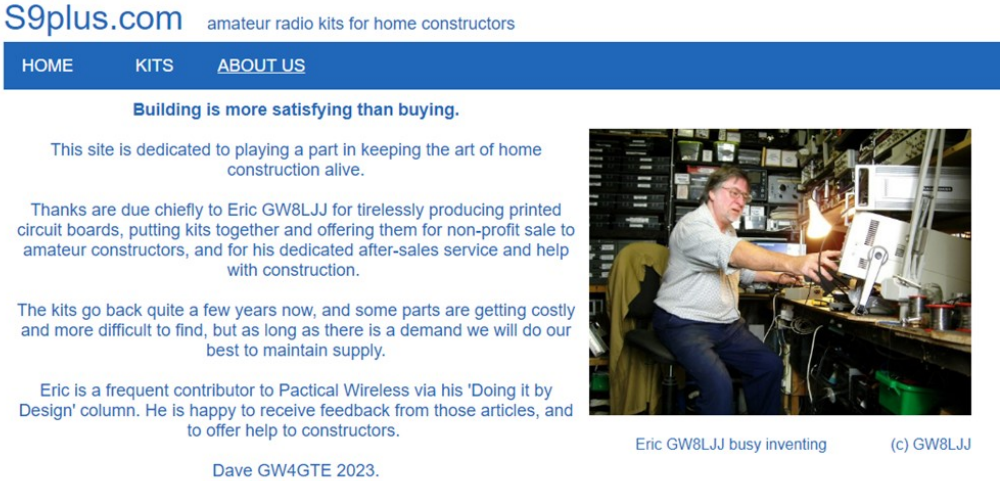
I remember the days when I was chairman of Johannesburg Branch we hosted a regular Technical Net. From memory, which is not that good any more, it was on a Wednesday evening on the 145.650 repeater with relays on 80m SSB and AM.

The AM transmission was great because it attracted a good number of short wave listeners who later signed up and joined the club and did their RAE.

The AWA net is every bit as good as the Tech net. It's a great place to share ideas and projects. One topic that has not been covered in any detail recently is AM.

The Telegram group has 85 members and is also a great meeting place between nets. There are still several dyed in the wool AM enthusiasts who regularly operate on 80m. How about dusting off those AM transmitters or hybrid radios and joining in.

As I mentioned in a previous column, AM is far from dead with enthusiasts over the world experimenting with dedicated solid state transmitters using highly efficient Class D amplifiers and either linear modulation or PWM. So, for those who aren't into valves and high voltages, how about some experimental work using one of the newer techniques. OM Richard F4WCD, pointed me to https://www.s9plus.com amateur kits for home constructors. Not only do they sell kits but also provide designs for home construction without needing to buy a kit. I have recently received some blank PCBs for a Class E AM transmitter for 160, 80 or 40m. All the parts are locally available. Come on, dig out that soldering iron and try your hand at building your own AM transmitter. Let's get the discussion started on Telegram and AWA.



Eric GW8LJJ busy inventing (c) GW8LJJ

Reflections:

Firstly, an apology from my side for the no issue of the July Newsletter. We had a death in the family and it was a rather hectic time getting everything sorted out, however, that is now all a thing of the past and we can get back to business as usual.

Time is certainly flying past us these days and the end of the year is in sight already. The bands have not been good to us so far and who knows when there will be any kind of improvement. But yet there are still many hams here in SA that are using their time quite fruitfully and constructively and making the best out of the propagation that is there.

Most days I get home after four in the afternoon and switch on my trusty FT102 and allow it to warm up nicely in this cold winter air that we have been experiencing. We usually eat early, like shortly after that, and by the time I get to the radio again its close to five PM and the group on 7.125 are starting to sign off. But I have been listening while doing my thing and there is usually quite a large group there.

On the odd occasion I will call in and have a short chat with the guys. But the thing about it all is that these guys haven't given up and said "Aaaah, the bands are dead, may as well not even switch on".

On a Saturday morning from around 7am one can hear the AWA Pre-net going guns with many of the old radio's being used again. Thanks to the insistence, or could I say constant whinging, of William ZS4L who promoted this all and got it going and keeps it going. Well done William.

I am sure there are many other groups around that use the bands and find pretty good propagation especially in the mornings and late afternoons.

I can well remember the early morning group that was run by Om Rod ZS5RK(SK) on 80m and then in the afternoon on 40m. I used to work them mobile out of my Jetta using an Icom 706 and Hustler antenna. We went right through some pretty horrendous conditions in those days too, but the bands still worked. I have said this before and I will probably say it again, Om Rod's favourite band was 80m. He would always say it's not the best band but it's the most dependable.

I can remember travelling down to the North coast of KZN one year and we started chatting on 80m and went all the way down there on the same frequency with regular calls. I was amazed.

Again 80m is not the best around but it can be used most times after dark. Just listen out for ZS5QB and the gang on 3650 in the evenings.

If I remember rightly, Om Iain ZS5IE and some stalwarts still do musical transmissions in the evenings on 3700.

Every now and then I get a message or email from someone who says how they are enjoying listening in to the Saturday net. I had a message from a young guy just this week. He is studying his RAE, but enjoys listening in and has already got a Heathkit DX100 on it's way to him.

Now that really excites me to know that there are still people out there who have a passion for radio. Maybe he hasn't experienced poor band conditions yet or doesn't know about them, but he still has that passion to get going. Do they teach those things in the RAE ?

I still wonder how it is that we have so many licensed hams in SA but less than half of them are active. Do you know how many radios that means are out there just waiting to be used , or sold ? It's sometimes just as well that the silver spoon fell out my mouth when I was born.

What a calamity it would be if the bands all of a sudden improved. We would have nearly four thousand hams scrambling to find a place to chat on.

I jest of course, there would still be more than enough space for us all, because the regular users would then be saying they can't get on the band any more because it's so busy.

Of course this is all really tongue in cheek stuff just to try and get some kind of reaction out of people.

Just another 2 months to the AWA QSO Party where the groups have been changed to also try and encourage more people to become radio active.

I hope that this will be the case and we will be advertising the changes in the September Newsletter.

Until next time, Do have a great August, the winds will be here soon to try out our antenna's and summer will be on it's way.

De Andy ZS6ADY

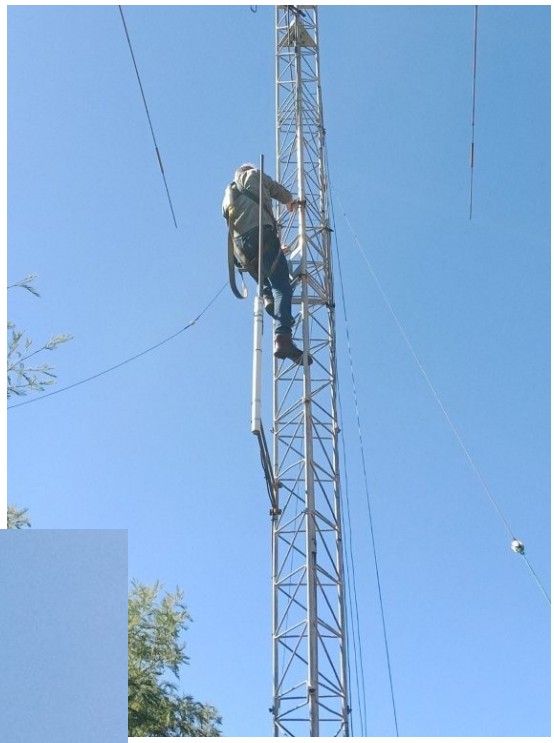
A DAY IN THE LIFE OF SAIEE

On The 5th of July, we got together at SAIEE for our monthly gathering and Kevin ZS6KAT climbed the tower to sort out the slipping beam that had sheared the coax cable off from the 2m antenna and the beam. Those of us there marveled at Kevin's prowess in climbing the tower and pulling off some spidey tactics to get the job done.

Well done Kev, your efforts were greatly appreciated.

We now sit with a problem of the coax from the shack up to the beam being badly degraded and we will be looking to replace it with some LMR400 so we will be looking to have a raffle of some sort in order to raise funds to replace this.

The first order of the day was to get Kevin into the safety harness which would allow him to perform his spidey act without his web glands working…..it has been a while since he last performed any daring tricks and he wasn't sure if they were still functioning. The cold in Norway may have had something to do with that too.



So the climb began…

While Kevin performed his magic on the cables, the rest of us watched in awe…

Renato of course displayed his preparedness for any and all things that had gone wrong and would need to be repaired.

He really did impress us with this neatly laid table of everything including the kitchen sink

A short break to get some spares…..

At the same time, Louis ZS6SK, continues with his updating of the displays in the museum, which are really looking quite impressive.

We will have some photo's in the next Newsletter.

In the meantime, our next outing will be on Saturday 09 August 2025.

Make a plan and come to visit us. Renato will be giving some tips about how to operate a Nano VNA and what you can achieve with it.

Cow-Cow Boogie

By John T. Frye

It was late afternoon and Carl and Jerry were riding along a country road in a long black car with huge golden stars painted on the sides. Neat white letters spelled out "Sheriff" across the red spotlight lens. The boys, though, did not look the least bit frightened or guilty as they listened with deep interest to what the thin little blue-eyed man at the wheel was saying:

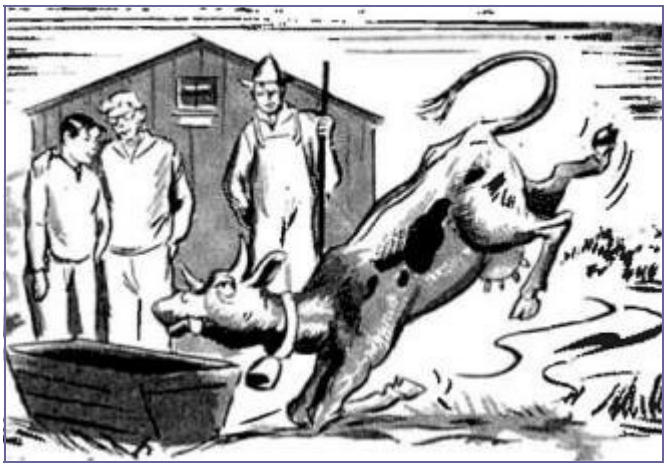
"Police Chief Morton suggested I talk to you two boys. He says you have - er - unconventional minds."

"Didn't he really say that we get a lot of wacky ideas ?" Jerry asked with a grin.

"Well, he did say that; but he also said that some of those wacky ideas turn out surprisingly well. Now here's the situation. We've known for some time that a big still is operating somewhere in this vicinity; but the guys running it are real cute, and we've had no luck at all locating it. Two weeks ago we got our first break. A farmer named Elkins - we're heading for his place now - came into my office and reported something very unusual. He has a cow that comes in from the pasture about three nights a week staggering drunk. We know from the particles still sticking to her muzzle that the cow has been eating fermented mash, and it's almost a sure bet she's getting the mash at the still we're hunting." "Then it ought to be easy to find," Carl suggested.

"Ought to be, but it's not. The pasture takes in eighty acres of very rough ground. Wildcat Creek runs along one end, and that part is almost all gullies and washes. To make matters worse, a goodly portion of the eighty acres is uncultivated and overgrown with trees and scrub brush. A couple of my deputies, pretending to be surveyors, have gone over every inch of it without spotting a thing. What's more, when they were in the pasture, Petunia - that's the cow's name - came home at night sober as a judge. The 'shiners must have been watching every single movement my men made.

"The situation is doubly ticklish because we don't just want to scare the bootleggers off. We want to find that still and destroy it. It must be a whopper from the amount of rotgut it's turning out."



... She shook her head from side to side, then staggered

As he finished speaking, the sheriff wheeled into a barnlot and drove over to where a long, lanky, sad-faced man was standing by a watering tank. The boys had barely been introduced to Mr. Elkins when he shaded his eyes with a bony hand, stared down a lane leading into a pasture, and exclaimed dourly: "Here comes Petunia loaded to the gills again!"

Sure enough, there was a long line of cows in single file plodding sedately down the lane, but one fawn-colored cow was cavorting wildly up and down the line, throwing her tail high into the air and making the bell about her neck clang loudly as she wheeled in dizzy circles. As she reached the barnlot, she broke into a stumbling run and ran full-tilt into a corner of the barn, knocking herself to her knees. She got to her feet, shook her head from side to side, then staggered over to the water tank and began to drink deeply and noisily.

"Now ain't that a shameful sight!" Mr. Elkins said sadly. "If this keeps up, I'm going to have to destroy the critter."

Petunia raised her dripping woozy head from the water and stared foggily at the four people for a few seconds with her large, limpid, slightly blurred eyes; and then she jerked in what was unmistakably a gargantuan bovine hiccup!

"Boy, what a hangover she's going to have in the morning!" the sheriff said with a tinge of awe in his voice. "Well, boys, any ideas ?"

"I'm getting sort of one," Jerry said hesitantly. "How about fastening a tiny transmitter with a very sensitive mike to Petunia and listening to the sounds it picks up as she wanders about the pasture? The moonshiners are used to her, and she can walk right up to their still. Then all we have to do is find Petunia and we've found the still."

"Where would you hide a transmitter on a cow ?" the sheriff asked.

"Inside the cowbell," Carl broke in. "A transistorized transmitter could fit in there easily, and we can fasten a fine wire to that leather strap on her neck for an antenna."

"You got another bell just like that one ?" Jerry asked Mr. Elkins.

"Yep."

"Well, take the clapper out of the bell Petunia's wearing and let us have the other bell."

"What's that for?" the sheriff asked.

"We can't have the bell with the transmitter ringing because that would cover up the sounds we want to hear, but neither do we want the moonshiners looking inside our 'doctored' bell to see why it's not ringing. If Petunia is around them for a day or so with a dead bell, they'll investigate, decide the missing clapper has been lost, and won't check after we switch bells."

"Okay!" Sheriff Greer exclaimed with an appreciative twinkle in his blue eyes. "That's using your noggin. Let's give it a try. I'll take you boys back to town, and you get busy rigging up the transmitter. It will probably take you a couple of days or so, and in the meantime I'll do a little arranging of my own. I've got a hunch that Petunia here will soon be joining Al-cowholics Anonymous!"

Mr. Elkins turned his morose gaze from Petunia to the grinning little sheriff. "It's not enough that I'm plagued with a drunken cow; now I've got to put up with a punning sheriff," he said, heaving a deep sigh and heading for the barn to get another cowbell.

Building and testing the little transmitter so that it would have sufficient range and sensitivity for their purpose was no easy job, and it was almost a week later before the boys were satisfied with it. Bright and early on a Wednesday morning they went with the sheriff out to the Elkins farm. Mr. Greer had driven his official car out the night before and parked it inside the corn crib; so he used his own unmarked car this morning. The special bell was fastened about Petunia's neck, and she was turned out with the other cattle. Then began what promised to be a long vigil as the boys and the sheriff listened to the receiver that had been set up in the corn crib.

"A state police helicopter is standing by at the airport," Sheriff Greer explained. "The instant I call him on my car transmitter, he'll take off and try to spot Petunia from the air. We can keep in touch with him all the time by radio."

Looking through the cracks of the crib, the boys watched Petunia separate from the other cattle and disappear into a clump of brush. Then all three lapsed into silence as they listened to the sounds coming from the radio speaker. Every step of the cow produced a clumping sound, and the calls of birds and the buzzing of insects came through with startling clarity. Suddenly the clumping stopped and there was a sound like the tearing of a glued flap off a cardboard carton.

"What's that ?" the sheriff gasped.

"Just Petunia grazing," Jerry said with a grin. "Kind of a noisy eater, ain't she ?"

But the cow only stopped briefly; then the resumed regular clumping sound indicated that she was moving steadily along. Suddenly all three of the listeners sat bolt upright as they heard the faint sound of human voices coming from the speaker; rapidly the voices grew louder until it was easy to hear what was being said.

"Hey, Jed, looky!" a deep bass voice said. "Here's our regular customer, and we ain't even got the saloon open yet."

... Sheriff Greer took a metal cylinder from his pocket, lifted the grating, tripped a trigger on the cylinder, and dropped it through the opening ...

"Quit fooling with that mash-happy cow and shake a leg," a shrill querulous voice commanded. "I want to dump this mash into the creek and get back inside the cave. I'm still worried about those surveyor fellows who were fooling around here a couple of weeks ago."

"Okay, okay, Jed; keep your shirt on. I'll just give Bossy her regular slug and then we'll dump the rest of the mash. Somehow I get a large charge out of seeing the way she guzzles the stuff. That cow is a natural-born lush."

The sheriff was already talking earnestly into the hand-mike of his car unit. He had hardly stopped speaking when the unmistakable throbbing sound of a chopper was heard, and a few minutes later they saw the ungainly aircraft hovering over the end of the pasture down by the creek.

"I've spotted them!" a voice said from the car radio. "Two men are running back into a little gully leading away from the creek. Hey! They disappeared! You come on out and I'll hover right here to keep them pinned down."

The sheriff grabbed a hand-held transmitter-receiver from the car, and all three started at a dead run down the lane. Mr. Elkins saw them through the open barn door, and he snatched up a pitchfork and took out after them.

When they arrived out of breath at the creek, the pilot directed them through the portable radio unit right to the spot where he had last seen the two men. But search as they would, they could not find a single trace of the two. Under the sheriff's direction, they climbed to the top and searched the flat ground on either side of the ravine. It was Mr. Elkins who pushed aside a clump of leaves with his pitchfork and revealed a metal grating set flush in the ground. Silently he beckoned the sheriff and pointed to it.

Very quietly Sheriff Greer took a metal cylinder from his pocket, lifted the grating, tripped a little trigger on the cylinder, and dropped it through the opening. A couple of seconds later there were muttered curses and a scuffling sound from below. The four rushed to the side of the gully just in time to see a section of the wall erupt and two men come tumbling out rubbing their streaming eyes. Clouds of tear gas billowed out of the opening behind them.

In a matter of seconds, the sheriff and Mr. Elkins had the two men's arms handcuffed around sturdy trees and had directed the helicopter to return to the airport and send out some deputies. Then he, Mr. Elkins, and the two boys entered the mouth of the cave which had been so cleverly camouflaged that they had walked past it a dozen times without seeing it. Inside the cave they found the largest still Sheriff Greer said he had ever seen. Supplies had been brought in and the liquor taken out at night by boat on the creek so as to leave no trail, and a light metal boat was in the cave.

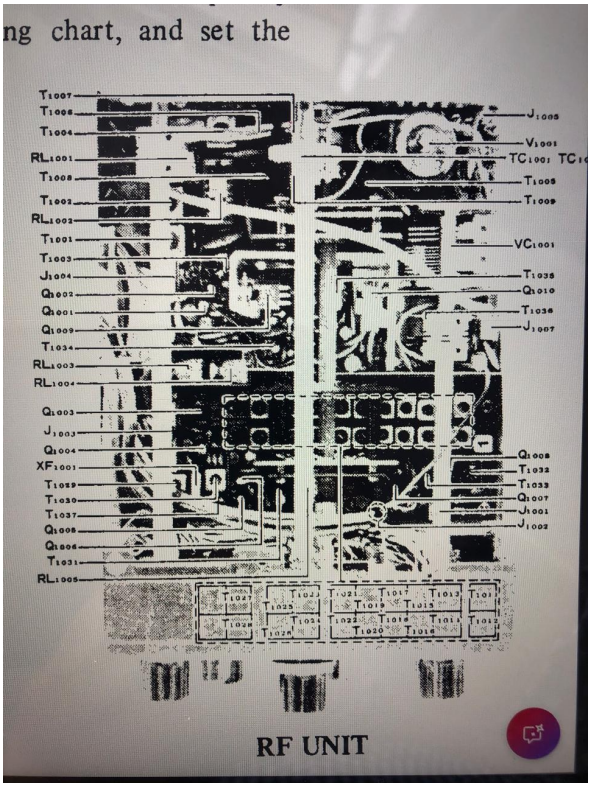
"Well, boys, I certainly want to give you credit for a very bright idea," Sheriff Greer said, as they walked out into the sunlight. "Without your help, this poison factory would probably have been going a long time before we found it."

Mr. Elkins walked with a determined stride down to the bank of the creek where Petunia was still licking at the bucket of mash the moonshiners had given her. A vigorous kick sent the bucket sailing far out into the stream. "Come on, Petunia," he said, wrapping a wiry arm around her neck, and leading her up the bank of the stream. "The party's over. From here on in you're on the water wagon.
Come on home and I'll make you up a tub of black coffee."

FT 102 RLAY CHANGE OUT

I became aware of several people who have the famed Yaesu FT102 transceiver, but were all battling with relay problems, or at least that seemed to be the problem.

Having been an FT102 owner for many years and still working fine, I asked Daniel ZS5JR, if he would give me a write up about how he changed all the relays out on my rig and did the alignment. He sent me the following document, which I thought would have a place in the Newsletter.



This is the problem board…..best to take the whole board out….check the alignment of the bandswitch and mark the shaft and switch….there are 2 plastic spacers on either side of the bandswitch shaft most likely they will be cracked so now is the opportunity to replace them.

There are 4 smaller relays 2 of them 12v and 2 24v …..I would replace them with Omron G2E but these are getting scarce because they have been discontinued……the smaller G5V-1 can be substituted but needs to be wired in.

Then RL1002 is very difficult to directly replace but I use Omron G5V-2 using wiring because the format is different…..some electrical/parts place know this as RZ12.

Don't forget the relay in the PA compartment…..Omron G5L-112P on board attached to antenna socket.

There are small relays on the IF board and PLL board…..follow details above re G2E/G5V-1

Then there are 2 big 4 pole c/o relays…..think these are 12v and these are not difficult to find.

To do the job properly change all…..FT102 really 'tour de force' with respect to relays.

QRM NOISE CANCELLER – IMPROVED RFI CANCELLING

Being a HAM in today's day and age is not easy, one needs to compete against a lot more electronic equipment, which generate a lot of RFI. With solar installations sprouting up, quicker than weeds after the first proper summer rains, RFI has become quite a problem.

Before one would have to hunt the noise down and install your noise pick-up antenna as close as possible to the source of the RFI. This tends to be a bit of an issue when it's the neighbours flatscreen TV, or inverter or their switch-mode power supply, or their LED lights causing the RFI. But as every HAM knows "necessity IS the mother of all inventions".

Only problem is the noise canceller noise pick-up antenna wire needs to be placed close to the source of the noise, right?..... or does it?

The RFI noise we hear on our radios is sent to our radios via the outer braid/shielding of our coax cable. Read that again slowly…… The RFI noise we hear on our radios is sent to our radios via the outer braid of our coax.

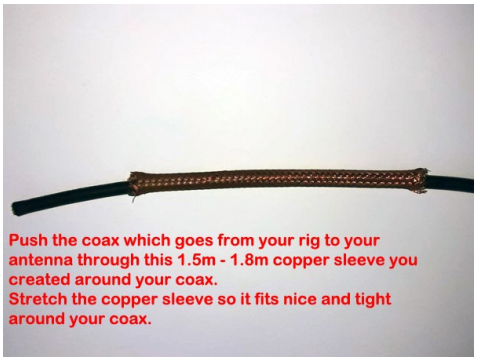
Thankfully QRM Noise cancellers are available which in a nutshell, takes the RFI NOISE hears, inverts it 180' , injects this inverted RFI signal back into our rigs along with the original RFI signal. The two RFI signals cancel each other out and all our radio hears is that feint DX station calling CQ (pretty nifty hey?!?)

What if your noise canceller could receive and almost exact copy of ALL the noise your rig is receiving? Wouldn't that help cancel your noise better? Good news……. it can via inductance.

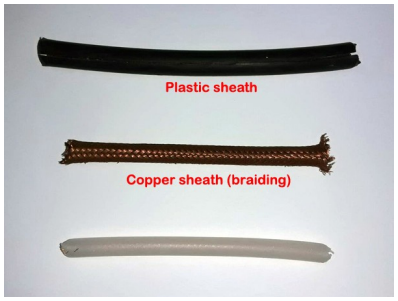
Step one: Find and cut a piece of RG213 coax 1.5m – 1.6m in length.

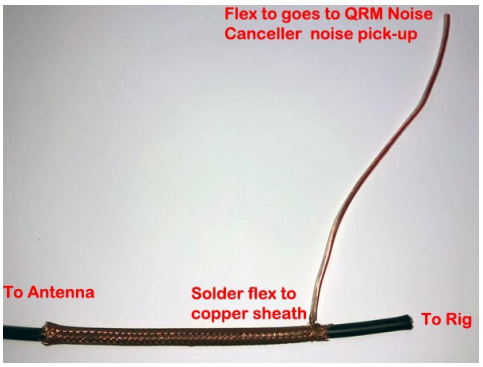
Step 2: Remove the outer plastic sheath by using a knife and CAREFULLY slice through the outer plastic from left to right. If

knife is sharp please be careful. Once you have cut a slit across the sheath, pry the sheath open along this cut line. Remove the copper braid and inner conductor. And once you have done this separate the inner conductor from the braid. TRY NOT TO SQUASH the copper braid during this step, as you need a nice copper sleeve.

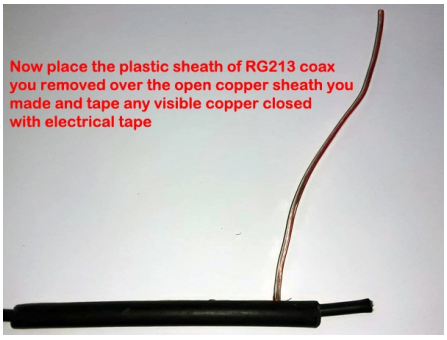


Step 3: If the main coax from your antenna to your rig/equipment is RG58 great. If your main coax from your antenna to rig/equipment is thicker example RG213 coax use a wooden dowel rod and GENTLY insert it into the centre of the copper sleeve, stretch the sleeve wider so that you can place it over the main coax coming from your antenna. approximately 0.5m – 1m before the end of the coax.





Step 4: Use a piece of flex, strip the protective sheath off by a few centimetres and wrap it around the end of the copper braid sleeve closest to your rig/equipment. Solder it into place to make better contact with the copper sleeve. Connect your noise canceller as per its instruction, but instead of connecting an external pick-up antenna you normally would ……. connect THIS flex wire instead. This flex goes to the center pin of your AUX ANTENNA connector on your noise canceller.



Step5: Take the coax plastic sheath (that you were probably going to throw away) and use it to cover your copper sheath. Wrap electrical tape around this plastic sheath to cover any exposed copper wires and to stop sheath from moving around on your coax.

Your Noise canceller will now receive an almost EXACT copy ALL the RFI that is traveling on the braid of your main antenna coax to your radio/equipment, via inductance. It can now cancel-out the RFI more effectively. Tune your noise canceller to null out RFI as you usually would. You will hear a vast improvement with regards to the types of RFI you can now cancel out, and you WILL have improved clarity to the remaining signal you are listening to after the RFI has been cancelled.

I used this hack while living in an area with a constant S7-9+ noise floor for 4 years. Even though my noise floor was this high, I could null out my noise and still DX. I hope this hack helps other hams out there plagued by RFI / noise.

Best 73 es Good DX - Warren Akerman - ZS6AKW

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Antique Wireless Association of Southern Africa

Mission Statement

Our aim is to facilitate, generate and maintain an interest in the location, acquisition, repair and use of yesterdays radio's and associated equipment. To encourage all like minded amateurs to do the same thus ensuring the maintenance and preservation of our amateur heritage.

Membership of this group is free and by association. Join by logging in to our website.

Get your backdated issues at
http://www.awasa.org.za/index.php/newsletters

Visit our website:
www.awasa.org.za

Notices:

Net Times and Frequencies (SAST):
Saturday 07:00 (05:00 UTC) —Western Cape SSB Net —7.140; Every afternoon during the week from 17:00—7.140
Saturday 08:30 (06:30 UTC)— National SSB Net— 7.125;
Echolink—ZS0AWA-L;
ZS6STN Sandton repeater—145.700
Kempton Park Repeater—145.6625
Relay on 10.125 and 14.135 (Try all and see what suits you)
Saturday 14:00 (12:00 UTC)— CW Net—7025; 14:20 10.115/14125

AWASA Telegram group:

Should you want to get on the AWA Telegram group where a lot of technical discussion takes place, send a message to Andy ZS6ADY asking to be placed on the group. This is a no-Nonsense group, only for AWA business. You must download the Telegram App first. …..+27824484368

SAIEE Open Day:

Saturday, 09 August from around 10h30 at the SAIEE in Observatory. 18a Gill Street.
Come along for a pleasant time at the museum, nostalgic displays of our amateur heritage.
Operate the museum station. ZS6IEE.
Enjoy good company.

Hope to see you there.