

NETWORK

A VOICE FOR AMATEUR RADIO
IN NORTHERN TASMANIA

November/December '92

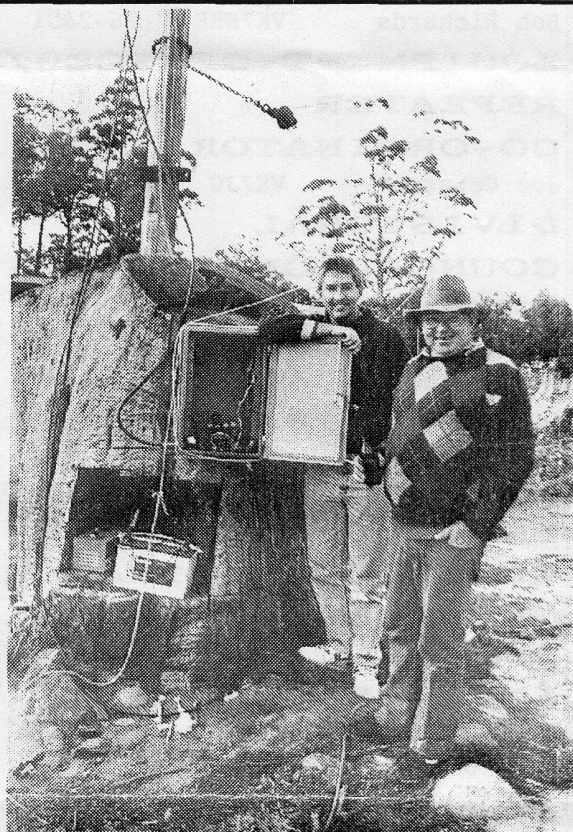
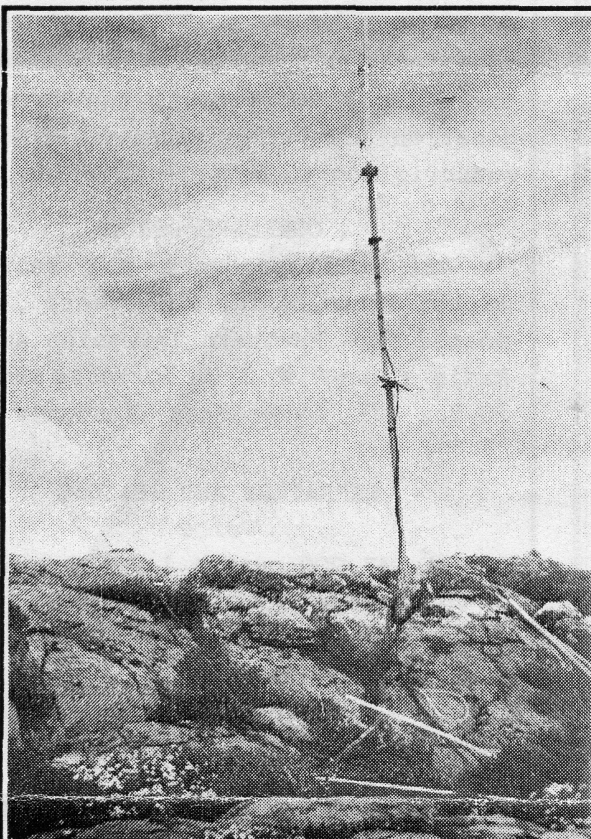


PHOTO. Left the old repeater mast Mt Arthur, Right Steve VK4VH with Frank VK7ZMF with the link into Hobart

INSIDE THIS ISSUE

* A tribute to all Jota helpers, throughout Tassie.

* For Sale, Wanted, Swap etc.

* Editorial: This Month, "TO WIA or NOT TO WIA"

* <<<<<<<<< Other Exciting Goodies. >>>>>>>>>

NEWS FLASH: Joe VK7JG has been to the Mountain with the Chopper & the new Antenna system is up & in operation...Thanks again Joe!!!

THE OFFICIAL NEWSLETTER OF THE NORTHERN BRANCH
OF THE WIRELESS INSTITUTE OF AUSTRALIA,
Tasmanian Division

REPRESENTING ALL NORTHERN AMATEURS AS...
THE NORTHERN TASMANIAN AMATEUR RADIO GROUP

P.O.BOX 275, LAUNCESTON TASMANIA 7250

Amateur Radio in ACTION in Northern Tasmania

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Tamar Valley Award

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WHAT'S HAPPENING IN YOUR
AREA?

BE INFORMED!

LISTEN TO THE TASMANIAN DIVI-
SIONAL BROADCAST EACH SUN-
DAY MORNING AT 9.30AM
147.000 IN THE NORTH

MEMBERSHIP SUBSCRIPTIONS

For joining the Wireless Institute of
Australia, Tasmanian Division.

Full Membership \$67.00 per year

Pensioner/Needy/Student \$53.65 per year

Full membership but non receipt of the
Amateur Radio Magazine \$39.00

An application form is available by
writing to:-

P O Box 275

Launceston 7250

SUBSCRIPTIONS TO "NETWORK"

\$10.00 per year

Non members of the Institute who utilize
repeaters etc., and who wish to help fund
these local activities, can forward a
donation and will receive 12 months
subscription to Network Magazine free.

CORRESPONDENCE

All correspondence and subscrip-
tions, articles for Network etc., to be
posted to:- Northern Tasmanian Amateur
Radio Group/ W I A Northern Branch,
PO Box 275, Launceston, Tasmania 7250.

REPEATERS AND BEACONS

Voice

VK7RAA 147.000 output 146.400 input

2M Voice Repeater, Mt Barrow

VK7RAB 438.550 output 433.550 input

70cm Voice Repeater, Mt Arthur. Linked to
VK7RAF in Hobart using 250.3Hz tone.
(Tone 38 on an Icom Transceiver).

Packet

VK7RTY 147.575 input/output

Packet Digi Repeater, Mt Barrow

VK7RAB 147.575 input/output

Packet Digi Repeater, Mt Arthur

VK7BBS 147.575 Packet Radio Bulletin
Board.

MEETINGS

Monthly, every second Wednesday of
the month at 7.30pm. Meetings to be held
at:-

'C' Block.

Alanvale College of TAFE.

Alanvale Rd.

Alanvale.

To Wia or Not to Wia..that is the question??

(WIA the abbreviation for The Wireless Institute of Australia.)
But what is the answer ???

When Gary V7KYZ asked me to do this month's editorial, I thought for a while, so this has been the outcome of my thinking...you may agree you may disagree, well then send mail to Gary. He is the Editor???

There are a lot of differing views around for and against the WIA... I was not made aware of this until I came back to live in Tassie...My main beef with Amateur Radio whether it be the WIA or Amateurs themselves....why on earth did they had such a low profile in the 1950-1970, in Launceston when I was younger and mad keen on any sort of a radio, from a cats whisker crystal set to the 1 valve rig I built in those years..... I missed out on 25 yrs plus of one of the desires of my life...to talk on Radio..

Anyway that's a small beef of mine out the way. It appears that the WIA is from all places getting a lot of flack...but let's hang on a minute or two and look at it...who on earth is the WIA...is it BIG BROTHER?, a Machine, a Monster, an Inanimate Object. Reading some mail on some Radio Mags & on the PRBBS. (Packet Radio Bulletin Board Services) one gets the impression that the WIA is one sort or another of the above//

But I see from my experience that the WIA is fact a bunch of HUMANS, or if you like HUMANIODS/ (Human turned on by Electronics & radios etc.) Yes people just like you and me, and there's around 40%+ of Licensed Amateurs who belong to this group known as the WIA. So now we have this sorted out, that when you talk about the WIA, it is a group of HUMANS with a binding activity in Amateur Radio.

I also see throughout the country 100's of different clubs many with affiliation with the WIA, but I guess there would be 100's that would not be..... the reason they have come into existence, is because of the special interest groups they represent. I wonder what the chance would be of all these groups getting together, and becoming a force or a competitor with the WIA...??.

I tell you now this would never

happen, because of more humans with definite ideas about their particular facet of the hobby...this group would go in over 200 different directions.. and certainly would also not be a happy family either because of the differing personalities.

Then I have found in my travels another group of people, those who once had some activity with the WIA and today sit and scorn, moan dribble etc, and bemoan the organization to which they themselves had for year promoted... being bought up on a farm this group remind me of the "Fly-blown Sheep" which after the fly strike goes away on its own and if the farmer neglects to see it, it wants to eat worms, and the worms (from the flies) eat it

***"Some men
see things,
as they are
and ask WHY????
I dream
of things
that never were
& say
WHY NOT. !!"
J.F.Kennedy***

and it eventually ...dies..

We fellow Amateurs should be mindful of these people, they are fellow humans, fellows of our hobby. We probably can't fix the original problem, but we can become a new friend to them.

Why is it I ask that so many amateurs, become so touchy, up tight and some times down right obnoxious. This unfortunately becomes the reality when we get away from behind the guise of the microphone and become a face & a name.

It is time for us to forget personalities and let the activities of our hobby be a delight for us, and enjoyed as a hobby as all people should enjoy their hobby.

We need to respect and honor the pioneers of our hobby, and our pio-

neers need to accept those new blokes who have possibly come from the ranks of the CB...but they are still..HUMANS..// CB wasn't around in your days ..if it was you would have been on it too. I had to be contented with CB for years because no one from the Amateur Radio fraternity or the WIA, made AR available to me...as you know I missed out. I am ever indebted to the Townsville Amateur Radio Club for their Novice course in the early 80's.

It was an affiliated Club of the WIA, & when I got involved I learned of the WIA & joined, as a token of my appreciation that I at last was an Amateur, with still a lot to learn.

Why I ask myself are there so many people in Amateur Radio (AR) that are like this??? The answer ..it has to do mainly with personality clashes...someone has got on their goat...so what happens...the WIA is no good...etc etc.. and on it goes..

A quotation that has inspired me for years, some of you think I was about to get behind the pulpit and preach,...sorry not today.. but it was a famous statement made by the late J.F.Kennedy..

"Some men see things, as they are and ask WHY????
I dream of things that never were & say WHY NOT. !!"

The hobby of Amateur Radio has today come to be what it is because of dreamers....but let us carry this dream out into the open, and as we have made great developments on the technical side of things, let's put this into the fellowship side of our hobby as well.

We must never forget the WIA & all Amateurs are people, and if you are not happy with things the way they are, you, YES YOU.. have the keys in your hand to change it...

My friend Steve Hudson VK4VH ex VK4FEA from Brisbane on his recent trip to the State, visited every branch meeting of the WIA in the state, and also partook of the personal hospitality of many Amateurs around the State... his words to me were... "You have a great bunch of people, many with vision, get up and go..it's great to see the potential that Tassie has with people like that involved in Amateur Radio." I agree

with him.

So if this is an outsiders observations over a ten day period we had better take a fresh look at ourselves and keep going?? Yes the keys are in your hands, if you do not like what was being done by the WIA in Tassie, get involved, get committed in a tangible way in participation. But the cost is too much....It will only cost you \$39 per year, an extra \$28 if you want to get the Amateur Radio Magazine (Total \$67) or if you are a Student or a pensioner \$53.65 per year. You may not want the WIA Magazine well there is another on the book stands will cost you \$3.50 per issue \$42 per year.

What a small price to pay to belong to one of the oldest Clubs in the world, when you think that your scope to communicate with the whole world. Every Novice I feel should be honored to know that this organization the WIA has gone in to get you on two meters & with packet & 70cm coming so we hear, this organization has done a lot to allow you more frequency space etc..

I have attended every WIA State Council Meeting this year and I was saddened to see only a handful turn up to even listen to what is happening within the State & at the Federal Office...these meetings are of course open to members & those interested in becoming Members.

I hear the old timers talk of the Hamfests at Campbelltown, the get togethers at Longford etc. How long ago is it since Tassie had a Hamfest, and so we can go on, with many ideas.

Yes I believe that there is one way that the WIA can improve, and that is to get away from the paper administration & get active again amongst the Amateurs it represents. This can happen as we become involved, get your membership application in today.. if you haven't got one I will post one to you...

Well to WIA or not to WIA what should we all do.... my simple suggestion is, if you are not happy, join up get involved, & we will all see what you can do??? If I am not happy with the WIA it's my fault..I am a member & I think I have been doing my little bit, I know some have not liked what I have done, but you see I

guess I tried because I dream of things that never were and say why not...??

Finally ..To WIA or Not to WIA....What I may ask is the alternative. As a state we can show the rest of Australia that Amateurs can get on, join together and become strong in unity.

Barry VK7BE
(Sysop VK7BBS)
(Vic President Tas Division WIA)

The Link

(Via VK7RAB to VK7RAF)
By Robert VK7ZAL (Hobart)

Since the establishment of the link from VK7RAB (438.550 into VK7RAF 147.250) many have bought a ctss subaudible tone units to put out the 250.3HZ tone to access the link.

Not so for Robert VK7ZAL in Hobart ...he set about building his own tone unit to suit his IC 251A .Printed below is the circuit incorporating the XR2206 IC. He mounted this to Veroboard & fitted it into a Ziffy box 50x90x150mm DSE H-2851. But as all projects go Robert found the following:

22n or .022mfd Capacitor must be a green cap. & not ceramic.

All pots large & stab pots.

50K Pot to adjust the Level

100k pot to adjust the frequency

25k pot(Distortion

500Ohm pot (Distortion)

Lining Up the System.

After completing, apply Voltage & check signals out. Wire board in box. but let it

hang down so that it can be adjusted.

Have adequate level at Audio out..

Adjust 100k pot for 250Hz, listen out of speaker and adjust: 25k ohm, then 500ohm for minimum distortion.

These points will easily be found as when not too high or too low, frequency appears to alter harmonics.

Transmit via the repeaters & someone will hopefully tell you your levels are correct.

Robert finishes his article by saying,

"Cross your fingers & hope for the best" I guess none of us have ever done that have we.???

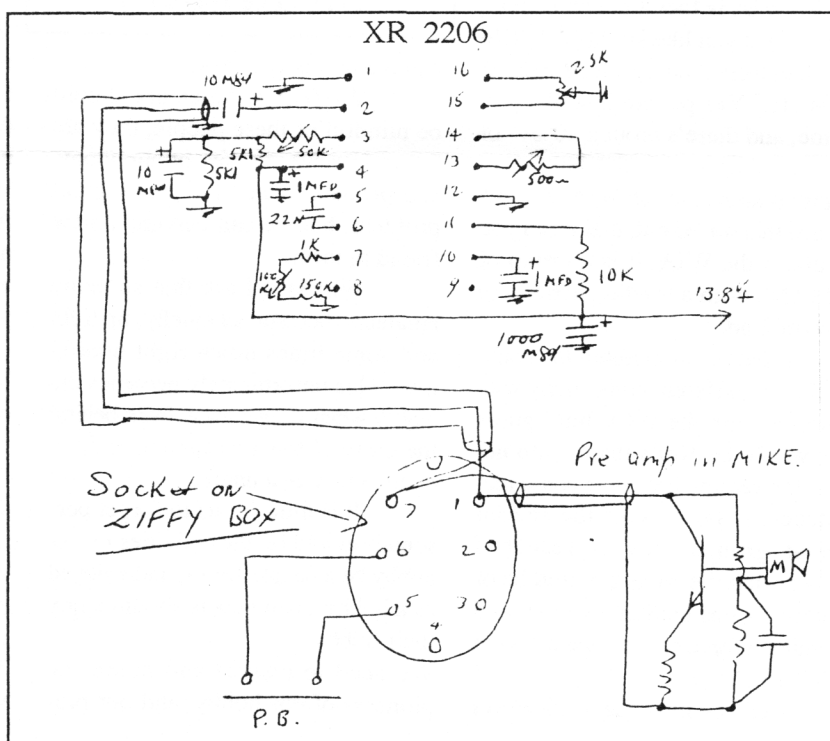
(See front cover for a Photo of the Link, at present located at the QTH of Frank VK7ZMF, situated at Arthurs Lakes)

CONGRATULATIONS BRUNO!!

Bruno Fritche VK7LBF has passed his full call theory, and is waiting for the allocation of his full call, as he has already passed his morse 10wpm. This makes Bruno the first from last years Novice class to gain his full call...as with all of us Bruno has had to work hard on his own this year to get there. Congratulations.BEH

THANKS JOTA HELPERS

Barry VK7BE thank the following for help with JOTA, VK7KYZ, VK7KZN, VK7ABH, VK7TRT, VK7PAO, VK7RH, and other supporters, with many others, many quietly working away..your help was appreciated. In years to come many new amateurs will remember their JOTA days, & theamateurs that helped.



Robert's (VK7ZAL) hand drawn Circuit for 250.3 Hz tone used for The Link.



WIRELESS INSTITUTE OF AUSTRALIA

PO Box 300, Caulfield South, 3162

FOUNDED 1910

MEMBERSHIP APPLICATION

I hereby apply for admission to membership of the WIRELESS INSTITUTE OF AUSTRALIA, and enclose cash, cheque, money order, or credit card details for my first year's subscription. I understand that if my application is refused, this amount will be refunded.

PLEASE PRINT CLEARLY.....

Surname Initials Known As Name

Telephone No. AH BH..... Callsign (if any)

Postal Address Postcode

Station Address Postcode

Date of Birth/...../..... Previously a WIA Member?

Nominated Division VK.....

I agree to be bound by the instruments of Constitution, regulation or rules of the Wireless Institute of Australia, and I undertake that I will endeavour to advance the objects and interests of the Wireless Institute of Australia to the best of my ability. I agree also to pay all duly set subscriptions and levies as and when they become due.

I enclose Cash, Cheque or Money Order for \$

or

I authorise payment of \$ by way of debit to my

Valid to/.....

Signature of applicant Date/...../.....

We, the undersigned, being members of the nominated Division, propose and second respectively, the above application.

Proposer Secunder

THIS APPLICATION AND FEE ARE TO BE FORWARDED TO THE
MEMBERSHIP SECRETARY OF THE NOMINATED DIVISION
(see address details on page 3 of Amateur Radio magazine)

OFFICE USE ONLY

Received \$..... Receipt No. Date .../.../...

Council/General Meeting .../.../... Membership Certificate No.

Processing Batch No.

E001 5/89

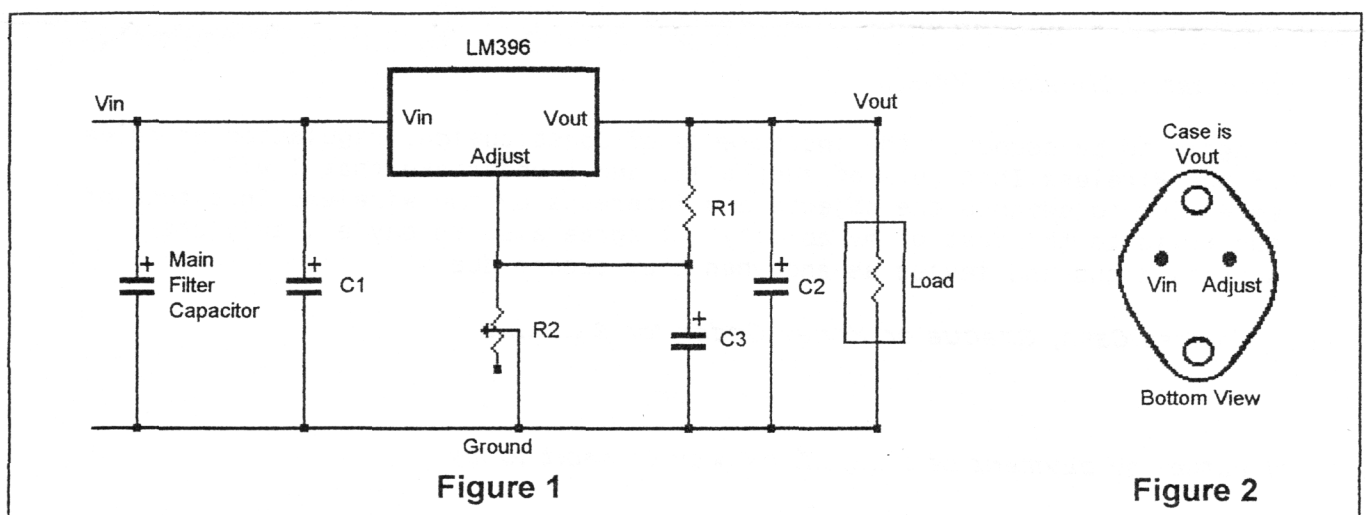
POST TO THE NORTHERN TASMANIAN AMATEUR RADIO GROUP
P.O.BOX 275, LAUNCESTON TASMANIA 7250

The LM396 10 Amp Adjustable Regulator

This regulator can be used as the basis for a 1.25v to 15v adjustable power supply, or as a 13.8v fixed power supply. I have used this regulator on a number of occasions in the past for a quick and easy power supply.

The LM396 only requires a minimum component count to produce a robust power supply. When mounted on a suitable heatsink, the regulator is can handle up to 10 amps, providing the 70W maximum power dissipation is not exceeded. The regulator includes both thermal and current limiting. This makes the LM396 immune to blowout from output overloads or shorts, even if the adjustment pin is accidentally disconnected.

For a fixed supply, V_{in} should be between 3v and 7v greater than the required V_{out} . For the variable supply, do not exceed 20v difference between V_{out} and V_{in} . Figure 1 shows a typical application for a basic 1.25v to 15v regulator. Figure 2 shows the connection details for the LM396K (TO-3 package).



$R1 = 120 \text{ ohm}$ (metal film or wire wound 1%)
 $R2 = 5K\text{ohm}$ trimpot. (Use 5Kohm potentiometer for variable supply.)

$C1 = 4.7\mu\text{F}$ Solid Tantalum. (Necessary only if main filter capacitor is more than 6" away, assuming #18 or larger leads.)

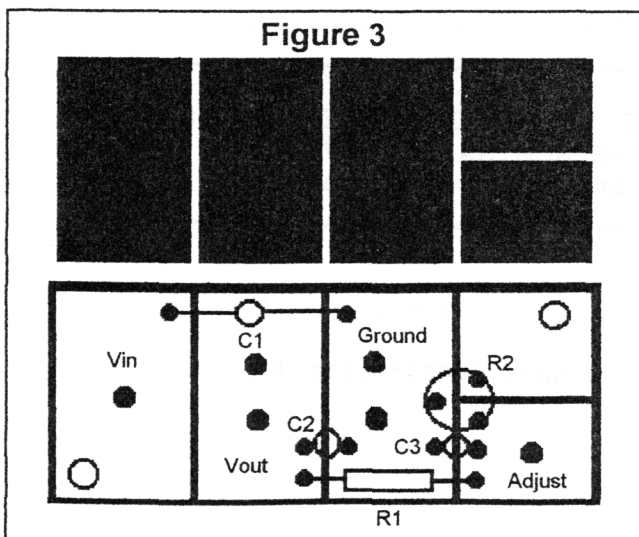
$C2 = 4.7\mu\text{F}$ Solid Tantalum. (not absolutely

necessary, but is suggested to lower high frequency output impedance.)

$C3 = 25\mu\text{F}$ (Improves ripple rejection, output impedance, and noise. $C2$ should be $1\mu\text{F}$ or larger close to the regulator if $C3$ is used.)

One of the advantages of using this regulator is that no PCB etching is required. All that is needed is to cut a piece of blank PCB to the same size as that of figure 3, and file or score the lines indicated. The trimpot $R2$ can be replaced with a potentiometer for an adjustable power supply.

For full technical specifications of the LM396, refer to the National Semiconductor Linear Databook.



The LM396 is available from:

George Harvey Electric P/L
76 York Street
Launceston TAS 7250
Phone (003) 31-6533

73 Gary VK7KYZ



GEORGE HARVEY ELECTRIC PTY. LTD.

A.C.N. 009 478 200

LAUNCESTON, HOBART and BURNIE, TASMANIA

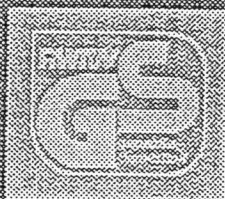
HARVEY HOUSE,
76 YORK STREET,
LAUNCESTON, TAS. 7250

P.O. Box 865J
Telephone: LAUNCESTON 31 6533
Fax: (003) 34 1899
Int. Fax: 61-03 341899

TECH•DATA 03

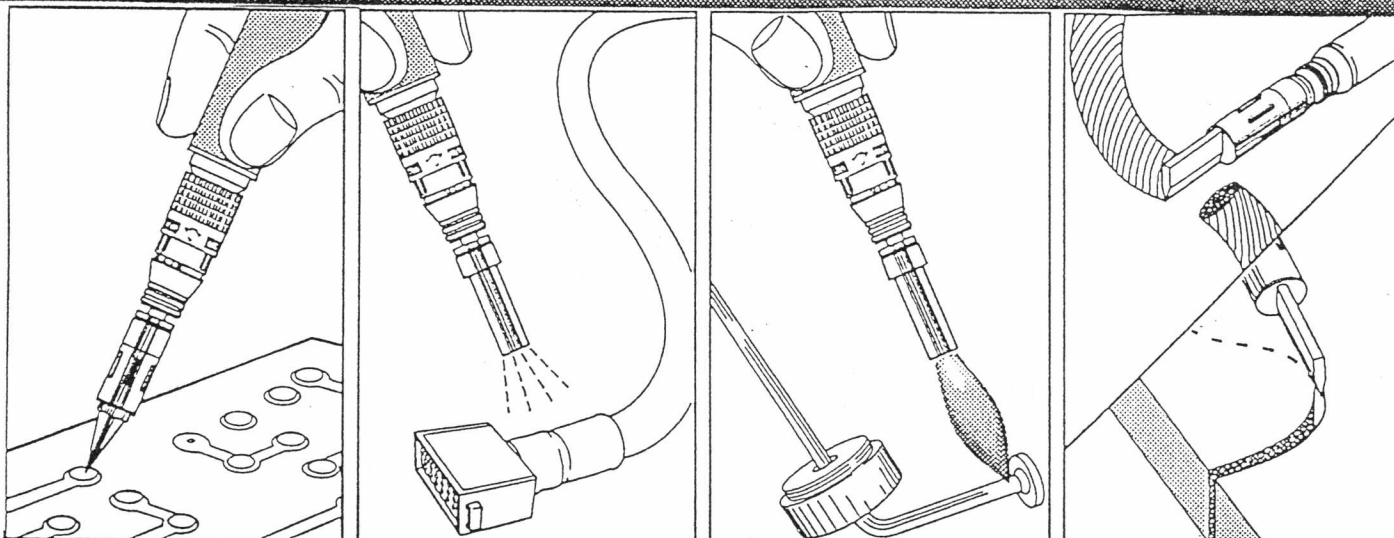
NIMROD™

Model T-100K

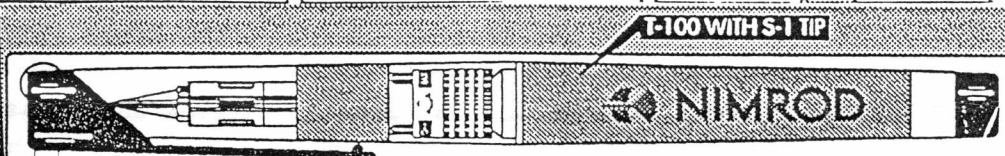


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February/March Special

-----*-----

The NIMROD \$29.95 inc tax

LM396K \$26.40 inc tax

(see previous page)

BACK PAGE

The answers for the last issues 'Back Page' questions are:

1c, 2a, 3a, 4d, 5b.

For Sales & Wanted

For Sale

Tono 777 multi-digital mode modem.

(Does not have packet)

Yaesu FT-7.

Contact Erik VK7AAB on (003) 83-1675

For Sale

70cm 4 way splitter c/w harness \$50

2 Bandit quad hubs \$25

Ashdown discone hub \$25

Complete set "Amateur Radio Action"
magazines Issue number 1 to current
issue \$100

Contact Lionel VK7HL on (003) 83-1497

For Sale

2 meter linear amplifier.

5W in/45W out \$100

Uniden PC122 (27Mhz AM/SSB CB) \$100

2 only - AM7910 World modem chips with
matching crystal

\$20 each (postage included)

Contact Gary VK7KYZ on (003) 83-1275

Technical Note:

Modification for Realistic Pro-2020 scanner to enable 30-50Mhz, and 380-410Mhz bands.

This scanner can be modified to include the above bands. The circuit board at the front of the unit has the processor and associated logic components on it, as well as the option jumpers for different countries. With the units front facing you, there are two links on the top left of the processor board to be located. They can be identified by the silk screen overlay showing two positions, one of which is a dotted line, the other, a solid line.

1. Remove one of the 2 wire links.
2. Where the 2 lines meet on the overlay, run a wire from here to the center of a SPDT switch.
3. Run a wire from the dotted line end to one side of the switch.
4. Run a wire from the solid line end to the other side of the switch.
5. Repeat the above for the second wire link using a second SPDT switch.

One switch will give you a choice between 380-470Mhz or 410-512Mhz. The other switch will give you a choice between 30-50Mhz or 68-88Mhz. The switches can be changed during operation.

Do you have any Northern News items for distribution in Network and on the Sunday Broadcast?

If so, it can be posted to:

The Editor

Network

PO Box 82

Beaconsfield TAS 7270

or packet

VK7KYZ@VK7BBS or VK7KYZ-1 via VK7RAB

Don't Forget!

The next meeting of the WIA, Tasmanian Division, Northern Branch will be held on Wednesday 10th February 1993, at 7.30pm. This is the **ANNUAL GENERAL MEETING**.

Meeting will be at:

'C' Block

Alanvale College of TAFE

Alanvale Road

Alanvale