

AMATEUR
RADIO

NEWS AUGUST 1982



Issued by Tasmanian Division of Wireless Institute Aust:
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You will notice that QRM is stapled together for the first time. Thanks for this go to Jack VK7JF who kindly donated the necessary equipment.

A few articles submitted to us have again not been printed for various reasons, e.g. unsuitable out of date and inaccurate material. Articles may be printed anonymously, however a name must be supplied for the purpose of checking the information.

On page 16 you will find a questionnaire which will give some guide lines for both QRM and the branches to follow.

Many thanks to those people who have bothered to submit articles, suggestions and praise. Keep it coming, we need all we can get.

WHO'S WHO?

VK7MX

Max Ives

Cressy:

It was in 1924 that I came to know the now late Lon Jensen. We were at the Devonport High School together when he put on an exhibition in electrical and radio phenomena. At the same time a mainland company exhibited a large new wireless with a big horn speaker. We heard Farmers Ltd. in Sydney with lots of static and a good deal of imagination.

I became so carried away that I took up radio, and, a pair of high impedance headphones and a cats-whisker crystal detector radio
whisker crystal detector later, oh, and some copper wire and about a year's pocket money, I had a crystal receiver working.

Within a short time I had a valve set working; a Philips DI, directly heated with 4 volts at 2 amps, and about 20 candle power. I still have it. And so I went on to regeneration, T.R.F., and finally to Super het receivers. I made resistors from lead pencil rubbed on cardboard and variable capacitors from tin plate and three-ply. About that time two of us had a funny way of communicating but I'll say no more about that.

And so the experiments continue until World War 2 and as I was in a reserved occupation, I joined the V.D.C. in the signals section. There I passed a morse test at 18 w.p.m. and had some experience in the operation of radio transmitters. I also became a morse instructor in the Air Training Corp.

Study in connection with my work, rearing a family and home building delayed my entry into Amateur Radio. Finally I joined in 1956, first the W.I.A. and with some nudging from VK7JO and others I obtained my full licence. In that time we depended on kind amateurs to pound the key for us and it was then 14 w.p.m.

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They were the days of A.M. radio and so I built a 70 watt transmitter with a screen grid modulator. I secured a lot of bits and pieces from disposals and wound all my transformers including modulation types. This saved a lot of hard earned cash. I built a double conversion receiver with crystal filters, BFO, etc. With a cubical quad made from bamboo fishing rods, I worked round the world. It was tough going but very rewarding.

In those days we learned the hard way. When someone calls you and asks 'Do you know you are on 7.2 Megs?' and you are supposed to be on 3.6 Megs you take some smart action and find you are doubling in the aerial coupler. At that time we always had a frequency absorption meter handy.

Later I built my first Single Sideband rig. I have to say with tongue in cheek, that I finally succumbed to the popular BLACK BOX. Since doing so I have never had the same interest in communication as when I used 'Home Brew'. I feel sorry for the new breed of amateurs who have never suffered from a home brew headache. And I don't mean gassy 807 s! It does not surprise me that amateurs are branching into other fields where there is more Do-it-yourself.

I have done my share in WIA activities since I was appointed secretary of the North West branch in 1956.

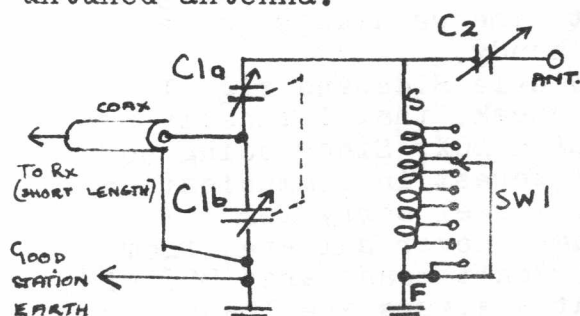
Two years ago I moved from Devonport to Cressy and disposed of beams etc. I now have only inverted Vees on H.F. and some beams on 2 Metres. As old father time has no respect for persons, I am satisfied to take a back seat in radio apart from an occasional stir when I think it necessary. Hi. I look back with satisfaction to my explorations in the radio field. I say to young members I believe the Amateur Radio fraternity to be the greatest in the world. So try to keep it that way. Have you ever thought - your callsign is peculiar to you. It is yours alone and only you are entitled to use it in the world. So, be worthy of it.

73 All;

VK7MX.

TRANSMATCH FOR MATCHING RANDOM WIRE ANTENNAS TO GENERAL
COVERAGE RECEIVER: FREQ. RANGE APPROX. 1600Khz - 30Mhz.

The average improvement over direct connection of antenna to receiver is about 3'S' points. (On some frequencies, and depending upon length of antenna, improvement is negligible, whilst on others improvement has been observed as high as 40dB - using FRG 7700.) Note that by adding a suitable D.P.D.T. switch, with High isolation between poles and between sections, the tuner may be by-passed to permit direct connection to receiver. e.g. for broadcast band reception or for rapid comparison of achieved improvement over an untuned antenna.



Settings of C1, C2, SW1 best found by trial and error. Suggest use of low power rig & SWR bridge for amateur bands: (for the perfectionist) Unit generally more effective than several active antenna circuits tried at VK7BP.

C1 - 2 x 500 pf B'cast cap. } (± 100 pf) If lower limits
C2 - 500 pf. B'cast cap. } used, low freq. limit of
1600 won't be achieved.

SW1 - 10 (or 12) position rotary switch.

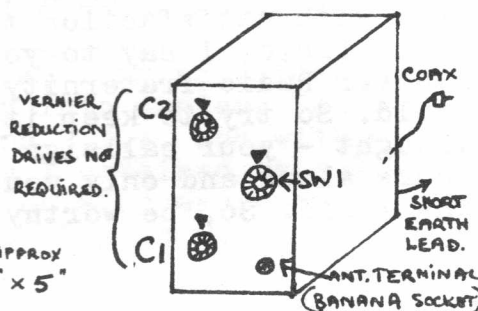
L1 - 54T 26swg or 25awg fully wound on Amidon toroid red core ex Amidon 'Experimenters R.F. Toroid Kit' tapped as follows - from start:- 5T (-3) 8T (-3) 11T (-4) 15T (-4) 19T (-5) 24T (-6) 30T (-7) 37T (-8) 45T (-9) * 54T*.

SUGGESTED LAYOUT:

* May be increased to decrease lower freq. limit to below 1600 Khz if space on core.

Ensure capacitor rotors are insulated & use insulated couplings to drive shafts.

Box: APPROX
6" x 4" x 5"



By Brian Proudlock VK7BP.

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OTHER NEW EQUIPMENT. \$

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ICSM2 70I MIC	45
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MC 355 MIC	3I
YE7A MIC	I8
ICBP4 IC2A PACK	IO
ICLC3 CASE	8.80
ICMB6 22S MOUNT	29
ICMB5 70I MOUNT	26
ICFA2 2m DUCKY	I3
SS-2 2m S/STEEL $\frac{1}{4}$ W	5
HK 70I KEYER	26
CN620A SWR	95
VC-2 SWR	39
ANTENNA I8ATV used	50

ATV.

BLACK & WHITE VIDEO RECORDER, SANYO VTC 7100 INC
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SSTV.

ROBOT SSTV, FAST TO SLOW used \$600.00

H.F. TCVRS. \$

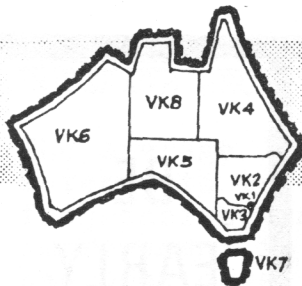
TS530S demo	695
FT7 used	380
HW7 used	85
SE502 IOm used	95

2m TCVRS.

IC22A used	I70
IC2IA used	I50
IC202E used	I75
IC2I5 used	I75
KP202 used	II0

ROTATORS.

CDE BIG TALK	99
IO3 LBX	I80



VK CW QRP_p CLUB

AMATEUR RADIO COMMUNICATION USING LOW POWER

The club was founded in January 1980 to encourage the challenge of using the CW mode under low power conditions, (5 watts or less) and thereby promote the study of radio propagation, antenna experimentation and the design and construction of home brew equipment.

The exclusive use of the AI mode, was chosen specifically to emulate our early pioneers who battled against similar odds to our present day QRP endeavors.

To give some tangible results, the club runs two scoreboards, one for VK-VK contacts only and the other for contacts with DX stations.

The fee for club membership is \$4.00 per annum, due in January of each year. This will gain you initial registration but associateship can only be achieved on the accrual of 50 or more points, on either scoreboard, or a combination of the two. At this time an attractive certificate will be awarded for \$1.00.

The club issues a quarterly newsletter which informs members of the latest scoreboard listings. It also contains technical, home brew, awards and contest articles.

The club is a member organisation of the World QRP Federation whereby an exchange of ideas and mutual co-operation between QRP operators in six continents will benefit the pursuit of achieving "the furtherest with the leastest"!

For membership or further information contact the state representative : Rai Taylor, 25 I2th Ave West Moonah, Tasmania 7009. Ph 727743 (002)

MAN'S CONTACT WITH HIS ELECTRICAL ENVIRONMENT: (cont.)

The Electric Eel: Man also encounters electric shock in the nature of a number of electric fish and rays. The most powerful of these is the electric eel of South America. This fish belongs to the order that includes the carp and catfish. In size it attains a length of three feet and thickness of a man's thigh. The electric organ of the fish develops a shock powerful enough to stun the largest animal.

Faraday made observations on the electric eel but it was not until recent times that accurate measurements were made. Peak voltages as high as 650 have been recorded, although 400 Volts was about the average reading for specimens 50 cms. in length. Eels 11 cms. long however, only generated 50 Volts. The voltages were measured with the fish out of water, using an oscilloscope.

Electrocution: About the year 1767, Priestly tried to resuscitate a kitten by artificial respiration by blowing into the windpipe with a quill. Broadie, 1828, spoke of restoring to life, guinea pigs apparently killed by electric discharges by perseveringly inflating their lungs with bellows.

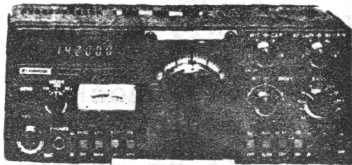
Many experimenters have tried unsuccessfully to electrocute frogs. The frog survives shocks and prolonged passage of 10, 100, 1000 Volts and more. On the other hand, the dog can be killed by an A.C. of 15 Volts at 6mA. applied to pass through the heart muscle for a few seconds only.

It was quite apparent that the results of animal experiments could not be applied directly to man, never the less it is not surprising that electricity became regarded as a 'vital' force and has been used on numerous occasions to cure many ailments of man.

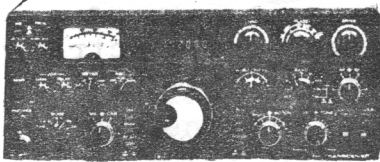
Electrocution first became lawful in the state of New York in 1888. One William Kemmler was the first criminal to be executed by this means in the year 1890. Thomas Edison was amongst those who considered that this method of execution was no more humane than hanging.

To be continued in the next issue:

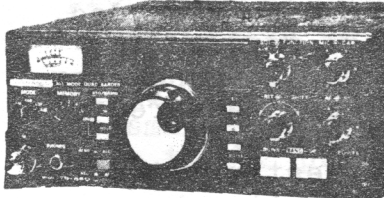
by Maurice Potter VK7SA.



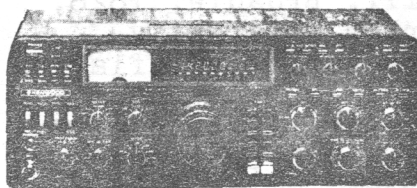
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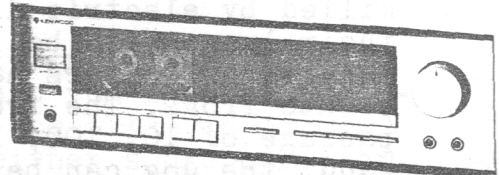


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Soft Touch Cassette Deck ~~\$240~~ RRP **\$99** - Save \$141.

When you purchase any of the KENWOOD models TS-130/530/660/830 or TS-930 during the months of July and August from an authorised KENWOOD Dealer. For only \$99 you will receive a top quality \$240 KENWOOD soft touch cassette deck, ideal for recording and playback of "off-air" information, slow scan pictures, etc. (Psst! Give it to the XYL.) To receive this offer, just bring your KENWOOD Australian warranty card, plus proof of sale to TKA in Lane Cove together with \$99. If you are unable to personally collect, please include an additional \$6.50 freight. Offer definitely closes 31st August 1982.

PLUS \$99 =



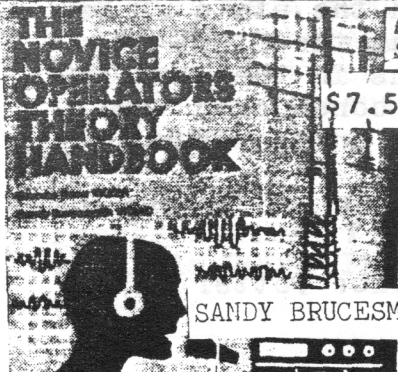
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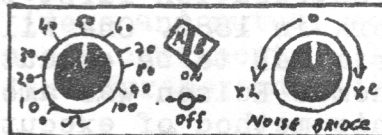
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By Graeme Scott VK3ZR and Sandy Bruce-Smith VK2AD

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« PAPER-CHASING »

Just a point to remember when chasing awards, don't forget that you are worth a point for the Tas. Devil Award, so mention it when on the different nets. (see details below)

First up this month, one everybody should qualify for easily:

ZONE 29 AWARD: Freq.- any band or mode; Contacts- 25; Require- log data only, verified by 2 full calls; Cost- \$1:00; Send to:- Awards Manager, Zone 29 Award, P.O. Box N1002, G.P.O. PERTH, W.A. 6001.

ENDEAVOR AWARD (R.N.A.R.S.):

Freq.- 3610 Time- 10:30Z. Day- Monday.

Contact- 15 stations with membership No's: Cost- \$1:50

Send to: Mr. R. Baty (Endeavor Award Custodian), 43 H.M.A.S. Australia Rd., Henley Beach South, S.A. 5022

TAS. DEVIL AWARD:

Section 1: M.F.-H.F. (a)Open- combination of bands and /or modes available to applicant.

(b)One band. (c)One mode. (d)All Novice.

Section 2: V.H.F. (a) & (b) as above. (c)Satellite contacts- cross band to H.F. allowed if permitted under licence terms. (d)Repeater contacts.

Claims:

Aust. inc. Tasmania. 50 contacts

Oceania, Antarctica 30 contacts

Asia, North America 20 contacts

Europe, South America 10 contacts

Africa 7 contacts

V.H.F.- Applicants to contact 20 VK7 amateurs with at least one station in each of the three W.I.A. branch areas.

Contacts made since Jan. 1. 1978 will count.

Verification: Claim logs, with name, call, section, station contacted, date, time, band and mode. To be signed by applicant and two other amateurs. (No q.s.l.)

Cost: 10 IRCs overseas - 5 IRCs in Aust. or equivalent.

To: Awards Manager, P.O. Box 371D, Hobart, Tas. Aust. 7001.

Till next month, Good Hunting,

De Les. VK7NHA

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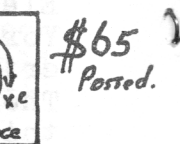
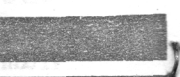
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This is a record breaking VHF site. **** P.O.A.
WILLIS UIO solid state UHF transceivers complete with
crystals for VK7RAB and one simplex channel \$165.00
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grip base and coax cable. \$45.00
2 Meter Swiss quad, claimed 15dB gain \$65.00
SLOW SCAN TV Keyboard working receiver part constructed
with 10" P7 tube AWA 12" AC/DC tv set. You can use the
EHT section for SSTV receiver. \$135.00 the lot
AVANTI on-glass 3dB gain 2M antenna "No holes" \$75.00
FM Stereo tuner to suit cartridge player 88-108 Mhz
Clarion LE30I \$30.00
I44 - 432 Varactor tripler \$20.00
AWA MRT25A hybrid car phones LO -Band suitable for
wrecking or use as solid state receiver \$25.00 ea
AWA MRI5A valve car phone \$15.00
Pye hybrid LO-Band AM radios \$15.00
Valves in stock, 6I46B, 6JS6, 12BY7, and many more.
Regency M400 30 ch scanner \$450.00
CS20IN coax switch \$34.00
X Needle SWR meter 50 - 150 Mhz 20 or 200W \$65.00
Icom 2M Multi mode mobile unit IC290A \$540.00
Antennas CB twin trucker antennas \$36.00

EMERGENCIES

From "200 Metres and Down" Author- Clinton B De Soto:

Tragedy swept New Zealand on February 3, 1931, when two of its most prosperous towns, Napier and Hastings, were overwhelmed by earthquake and fire. More than 350 residents were killed and thousands injured by collapsing buildings. All telegraph and telephone wires were destroyed and communication with the outside world was completely cut off. In his office in Hastings when the first wrecking blow fell, C. E. Tyler, ZL2BE, escaped through falling walls and buildings by the merest chance and reached home to find his equipment completely wrecked. Rushing back into town, he recovered some batteries from a ruined radio shop and with apparatus from his station, soon assembled a workable transmitter. Making contact with Gisborne, Tyler gave news of the disaster and made an urgent appeal for doctors, nurses and medical supplies, which were rushed by airplane to the stricken towns. In Napier, ZL2GE did yeoman service. He managed to recover a few "B" batteries from one of the radio stores before fire destroyed it and with these under his arm bolted for home, where he reconstructed his transmitter and soon made contact with Christchurch and Wellington. His station, as were those of other amateurs, was taken over by the Post and Telegraph authorities for the handling of official traffic, with the amateur operators retained in charge. Throughout New Zealand amateurs stood by; many stations rendered vital assistance in handling all varieties of traffic. The work they performed was, as always, a bright spot in the gloom of disaster.

Thanks to VK7OW

QSL BUREAU

Cards handled by the QSL Bureau:

<u>YEAR</u>	<u>OUTWARDS</u>	<u>INWARDS</u>	<u>TOTAL</u>
1979	24002	23357	47359
1980	24102	24960	49062
1981	22629	19918	42547

WHAT RADIO OFFERS TO THE YOUNG MAN

—This article should be of interest because it was printed 50 years ago! It was taken from the Feb. 1932 issue of 'Modern Sets' edited by Mr. A. Box, a well known technician in the early days. All the old timers will remember articles by A.K.Box. This article may very well have been written today, instead of 50 yrs. ago.—

J. Davis VK7OW

WITHOUT doubt radio is the most popular of all modern hobbies. The ever-changing fashions of the science, and the continually new avenues of interest which its progress opens up, combine to hold the interest of the boy until he reaches the stage where he starts to consider his future. What is more natural than that he should look to his hobby to provide him with a livelihood? So great are the ramifications of commercial radio with the associate field of talkies and the future field of television that the trained radio engineer's prospects are rosy indeed. Even in Australia, where a small population prevents the rapid radio developments which take place overseas, there is a definite demand for highly trained engineers. This demand will increase yearly, particularly as the science develops past the stage where the rule of thumb methods of the radio old-timers will not suffice.

Unfortunately, it has been difficult for the radio enthusiast to gain sufficient technical knowledge to qualify as an engineer. Beyond the rudiments of the subject which he could learn from the various technical magazines, and the small amount of practical experience which his own experimental energies permitted, it has, in the past, been impossible for the beginner to progress far on the path of radio knowledge.

At the Melbourne Technical School a radio class has been carried on under the supervision of Mr. McKay, and students of all grades have been instructed in the fundamentals of radio. Although the Melbourne Technical School radio class has been one of the best in existence in Australia, its principals have considered that the standard of knowledge which was imparted did not make sufficient provision for those students who were unfamiliar with the electrical part of radio.

The new course at the Melbourne Technical School starts in February, 1932, when the first year class will take the following subjects:—

Shop training in electrical fitting.

Practical set-wiring.

Instruction in the making and reading of blue prints, in the choice of materials for a job, and the preparation of estimates of material.

A thorough grounding in electricity, covering ground up to the A.C. principles involved in radio communication.

This is the first year course, which is intended for those students who have no thorough knowledge of electricity as it is applied to radio.

The Second Year Course.

The second year course is much more involved, and aims at providing the student with sufficient knowledge to qualify as a competent radio engineer. Its syllabus includes:—

Instruction in the principles and practice of the Morse code.

Practical testing up to the A.O.P.C. standard (the standard set by the P.M.G.'s department for the operation of an amateur radio transmitting station).

This comprises two nights' study each week. The first night is given over to amateur testing (tests and practice with equipment such as is used by the average radio amateur) and to code practice.

The second night will be given over to practical testing, and to the acquisition of a knowledge of mathematics as applied to transmitting circuits.

The new course represents the first serious attempt to lift the standard of knowledge of those employed in the radio industry to the level of the standard demanded from workers in the electrical industry, which pays good money to its highly qualified men.

ADVANCED ELECTRONICS

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AMATEUR RADIO TRANSCEIVERS

ICOM--IC730--100W--HF MOBILE
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ICOM-IC4E-70CM-HAND/H
TRANSCEIVER...\$249.00

YAESU-FT290R-2M FM/SSB-P/T
TRANSCEIVER...\$385.00

YAESU-FT690R-6M FM/SSB-P/T
TRANSCEIVER...\$365.00

KENWOOD-TR7800-2M 10W-MOBILE
TRANSCEIVER...\$399.00

KENWOOD-TR8400-70CM-MOBILE
TRANSCEIVER...\$339.00

SPECIAL

KENWOOD-TS600-240V-6M 10W
TRANSCEIVER...\$489.00

COMMUNICATION RECEIVERS

YAESU-FRG 7700-ALL MODE(INC FM)-RECEIVER-150KHZ TO 30MHZ...\$199.00

KENWOOD-R 600-AM/SSB-2MHZ TO 30MHZ-RECEIVER...\$389.00

NATIONAL-RF 3100-TO 30MHZ AM/SSB-88 TO 108MHZ FM-RECEIVER...\$299.00

SONY-ICF 2001-150KHZ TO 30MHZ AM/SSB-76 TO 108MHZ-FM-RECEIVER...\$289.00

ACCESSORIES

KENWOOD-AT 230-TUNER.....\$ SOLD
KENWOOD-PS 30-POWER SUPPLY.....\$165.00
KENWOOD-DFC 230-FREQUENCY CONTROLLER.....\$225.00
MIRAGE-B108 2M 10W IN 80W OUT.RX PREAMP...\$225.00
MIRAGE-B23 2M 2W IN 30W OUT.IDEAL FOR HAND HELDS...\$119.00

COME IN AND TALK TO GRAEME(VK7ZGA) ABOUT ALL AMATEUR GEAR

WHAT IS YOUR PARTICULAR INTEREST IN RADIO?

This questionnaire was instigated by the North West Branch, however your QRM committee considers the information included is worthwhile collecting from every member:

Please tick as appropriate:-

Main Interest 1. Operating 2. Construction
3. Other (please list)

Operating:

1. Contests
2. Ragchewing
3. DX Hunting.
4. HF.
5. VHF/UHF

6. Mode: CW SSB
FM ATV
SSTV RTTY

7. Other (list)

Construction:

1. HF
2. VHF/UHF
3. Microwaves
4. Satellite
5. Computers
6. SSTV/ATV/RTTY
7. Antennas
8. Other (list)

Are you interested in group activities? YES / NO
Do you want more social activities in your Branch?
YES / NO

ANY COMMENTS?

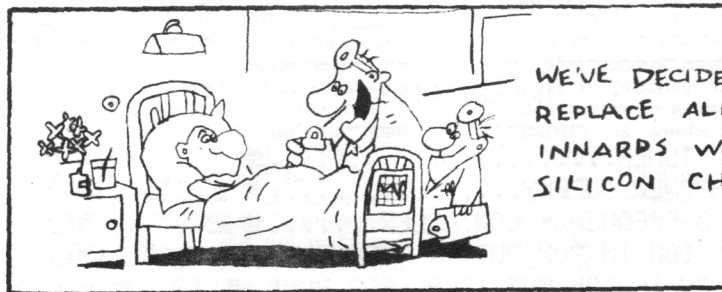
We suggest Northern & southern members fill in and take take to meeting or send to Secretary of their branch. For N.W. members fill in and send to Box 194, Penguin, or to any of the committee.

NAME:

CALLSIGN:

ADDRESS:

.....



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MODIFICATION TO CW FILTER of YAESU FT-7B.

The CW filter of the FT-7B is an audio bandpass filter centred on 800Hz. with a bandwidth of 80Hz. at 6dB down. The filter is a conventional op-amp bandpass filter. As I have no use for a CW filter but could use a filter for RTTY, I modified the filter to be centred on 2210 Hz. with a bandwidth of 200Hz. at 6dB down. This was achieved by changing one resistor (R2606) from 180k to 78k and varying the 2k trimpot (R2601). Adjustment was done with an a.f. generator and a CRO and checked on air. Amateurs use 170Hz. shift on H.F. exclusively and this unit provides good copy where none would be possible without it. While the modification above applies only to the 7B, any unit fitted with an op-amp bandpass filter could be so modified for RTTY reception.

Footnote: If you are using an FT-7B, be aware that the factory has issued modifications to the 50 W pa unit to minimise the possibility of self-destruction at high SWR's; for details contact the writer.

By Martin J. Fox VK7MM.

VK7 YL HUNT:

by Jan Harper VK7JM.

How many are there? Are you the only one? I've finally found a VK7 YL operator! You are my first VK7 YL contact!

These are typical of the questions and statements I hear during H.F. operation. As for how many YL operators there are in Tasmania, I'm afraid I don't have the answer - consequently this current project began. To date I have listed;

VK7CC Christine

VK7ZSU/NSU Sue

VK7HD Helene

VK7NSB Lucy

VK7YL Joy

VK7NRG Sue

VK7JM Jan

VK7NPK Pauline

VK7ZYL Joan

Have I missed anyone? I would appreciate any more information. Perhaps at a later date we may all meet on 80 metres.

Info. to the writer: Box 1039, Launceston. 7250.



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YAESU FT 901 DM: Memory, DC to DC, Curtis Keyer, Processor inbuilt. Mint \$850.

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